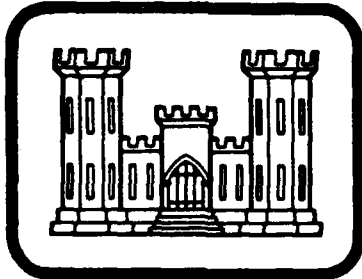


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ARMY ENERGY DATA ANALYSIS

Computer Sciences Corporation
Systems Division
Washington, D.C.

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Aug 1988

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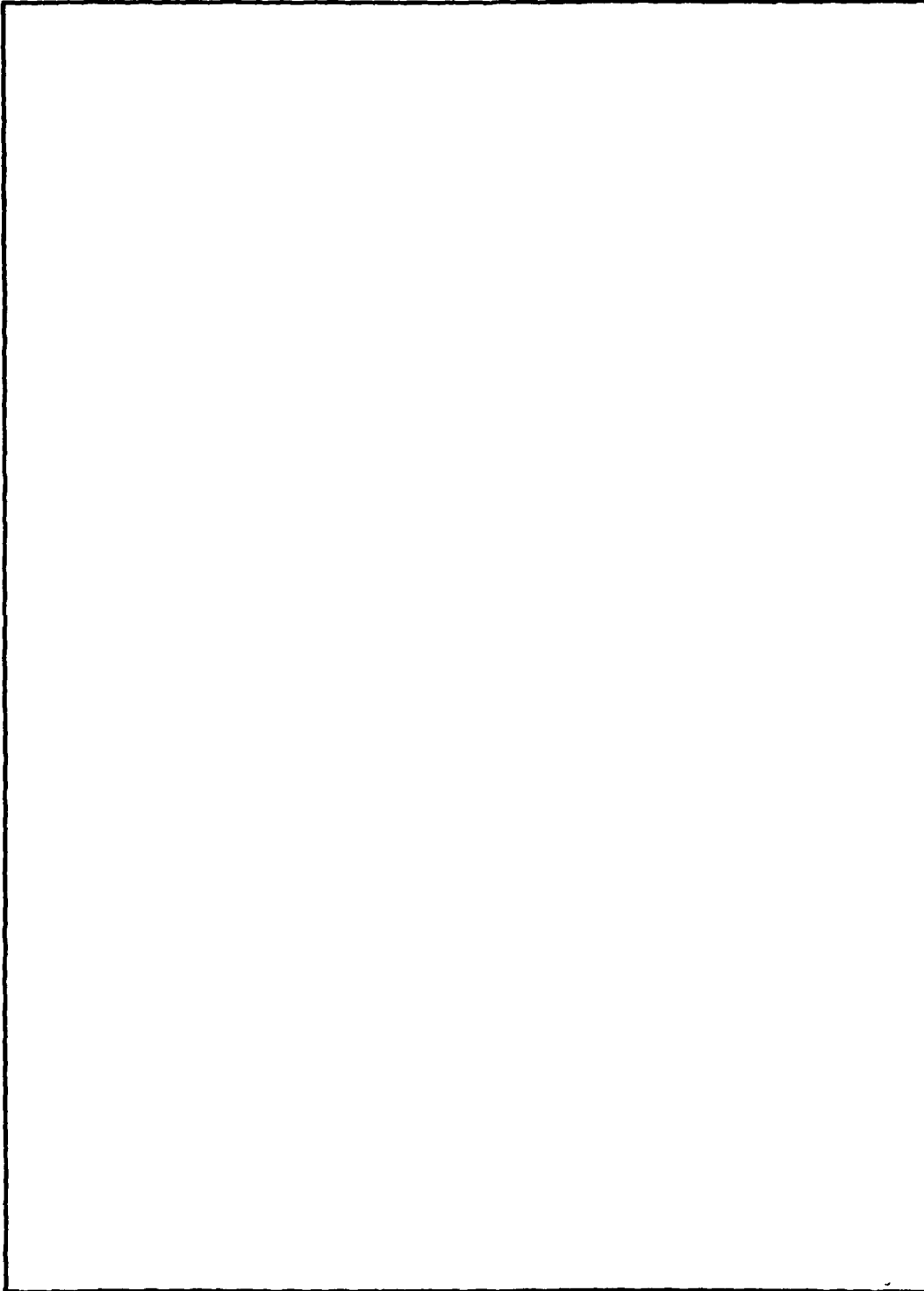
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INTRODUCTION

This study was conducted for the U.S. Army by the Department of Energy under contract to the Computer Sciences Corporation, Washington D. C. The study consists of a thorough analysis of the Facilities Engineering Annual Summary of Operations, "Red Book", for fiscal years 1975 through 1979 in order to develop energy performance indicators for and a profile of energy use in Army facilities within the United States. This report presents statistical data at a detailed level for each U.S. Army Installation and aggregated by each Major Command and for the fifty United States. Summary data for the Army world-wide are also included.

The "Red Book" data is compiled from Major Command (MACOM) Technical Data Reports, DA Form 2788 Series prepared under the provisions of AR 420-16. These MACOM reports include "Installation" statistical data. The use of the term "Installation" throughout this report refers specifically to "reported" Installations, which include sub-activities. For example, a single report identifies Tooele Army Depot as a single reported Installation, but the data includes sub-activities such as Pueblo Army Depot, Umatilla Army Depot, Ft Wingate Army Depot and Navajoe Army Depot. Conversely, sub-activities are frequently reported separately, such as Ft. Lawton, a sub-activity of Ft. Lewis. In this case, Ft. Lawton, as a reported Installation, is treated the same as Ft. Lewis and is reported upon within this report.

The data elements which were extracted from the "Red Book" include population served, air conditioning capacity and real property inventory (with gross square feet by category for Installations). The original MACOM reports were used to obtain other data, such as resident and non-resident population and energy consumption, thermal and purchased electric. These data elements were then correlated with each other to produce performance indicators of:

- | | |
|-----------------------------------|---|
| 1. Energy Consumption & PD | 10. Electric En Consumption/Resident Population |
| 2. Thermal En Cons & PD | 11. Installed Air Cond Capacity & PD |
| 3. Electrical En Cons & PD | 12. Elec Energy/Ton of Air Cond & PD |
| 4. Resident Population & PD | 13. Real Property Inventory (RPI) & PD |
| 5. Non-Resident Population & PD | 14. RPI/Effective Population |
| 6. Population Served** & PD | 15. Energy Consumption/GSF & PD |
| 7. Effective Population*** & PD | 16. Thermal En Consumption/GSF & PD |
| 8. En Consumption/Pop Served & PD | 17. Electrical En Consumption/GSF & PD |
| 9. En Consumption/En Pop & PD | |

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population

***En Pop is Resident + 1/3 Non-Resident

The composition of the Real Property Inventory, by category, is also included on each Installation Data Sheet. It includes:

- | | |
|---------------------------------|-----------------------|
| 18. RPI by Category | Administration |
| Training | Bachelor Housing |
| Maintenance & Production | Community Facilities |
| Research, Development & Testing | Family Housing |
| Storage | Operational Buildings |
| Other Covered Storage | Utility Buildings |
| Hospital & Medical | Other |

The base year used in this study is fiscal year 1975, and comparisons to the base were made for fiscal years 1976, 1977, 1978 and 1979. Data sheets were prepared containing the above-mentioned data elements by year for each Installation and summarized for each MACOM and the United States. The Installation Data sheets are contained in volume 2 of this report. A less comprehensive summary data sheet was prepared for Army-Wide activities, using only the "Red Books".

The MACOMS data have also been displayed in graphic form for the categories of total energy consumption, thermal energy consumption, electric energy consumption, active real property inventory, energy consumption per gross square foot (BTU/GSF), installed air conditioning capacity and effective population. In addition, graphics have been prepared for selected Installations which also appear in volume 2 of this report. The total U. S. data has been presented in a graph, along with limited Army-Wide data. The graphic displays are very useful and large deviations are easy to detect.

The results of detailed analyses conducted on energy consumption on a gross square foot basis, and on the effects of the Energy Conservation Investment Program (ECIP) are also presented. Further individual analyses can be made by referring to the MACOM and/or Installation sheets for specific or more comprehensive values.

In summary, this report presents a comprehensive descriptive statistical picture of U.S. Army facilities energy use from 1975 to 1979. The report makes no casual inferences as to reasons for energy consumption variations; however, several factors which are related to energy use variances are analyzed. The performance indicators and other statistical data are perfectly suited for a more in-depth statistical study of energy use variables and trends, the results of which may be invaluable in aiding energy policy decision making.

UNIT ENERGY CONSUMPTION
(BTU/GSF)

The Presidential Executive Order number 12003, dated July 20, 1977, included the requirement, "For the total of all Federally-owned existing buildings the goal shall be a reduction of 20 percent in the average annual energy use per gross square foot of floor area in 1985 from the average energy use per gross square foot of floor area in 1975." This goal has oriented all Federal Agency perspectives to the BTU/GSF ratio. It has also been included as one of the goals in the Army Energy Plan. Notably, the Army-Wide achievement at the end of FY79 is a reduction of 9.3 percent below the FY75 consumption rate per gross square foot. The performance over the four year period (FY75-FY79) indicates a distinct overall trend downward, although it displays some erratic influences, especially weather induced. Other influencing factors are apparent and this section will analyze them.

The United States has been divided into seven climatic regions as a result of studies conducted by the Department of Housing and Urban Development and the Department of Energy (DOE). These regions were developed using both, heating and cooling degree days data for classification. These regions were used as reporting criteria for all Federal Agencies in reporting Preliminary Energy Audit results to the DOE for further reporting to the Congress as is required by the National Energy Conservation Policy Act (NECPA) of 1978. These regions (zones) are described and depicted in Figure 1.

**Zone Descriptions in Heating (HDD) and Cooling (CDD)
Degree Days are:**

- Zone 1** - Less than 2000 CDD and more than 7000 HDD
- 2** - Less than 2000 CDD and 5500 to 7000 HDD
- 3** - Less than 2000 CDD and 4000 to 5499 HDD
- 4** - Less than 2000 CDD and 2000 to 3999 HDD
- 5** - Less than 2000 CDD and 0 to 1999 HDD
- 6** - More than 2000 CDD and 0 to 1999 HDD
- 7** - More than 2000 CDD and 2000 to 4000 HDD

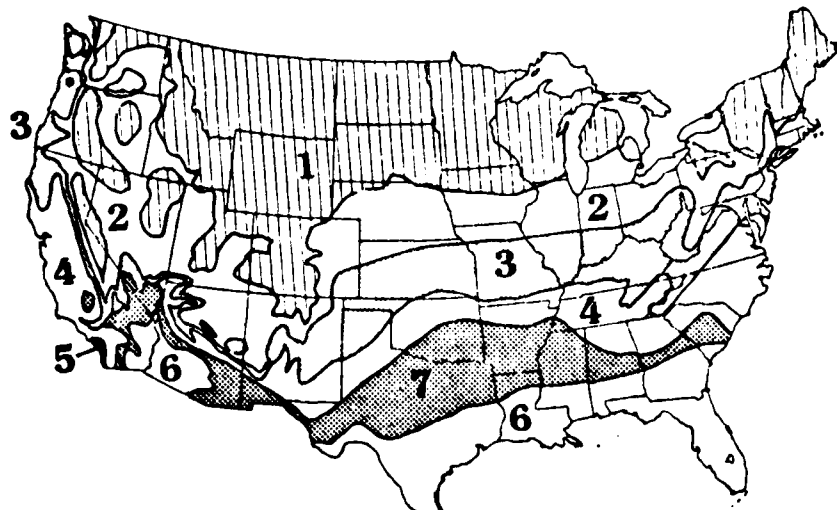


Figure 1

Each Installation Data Sheet in Appendix A reflects the Heating Degree Days (HDD) and Cooling Degree Days (CDD) and the Climatic Region in which that Installation is located. The Installations have been summarized by climatic regions and figure 2 shows that summary with the FY75 and FY79 averages.

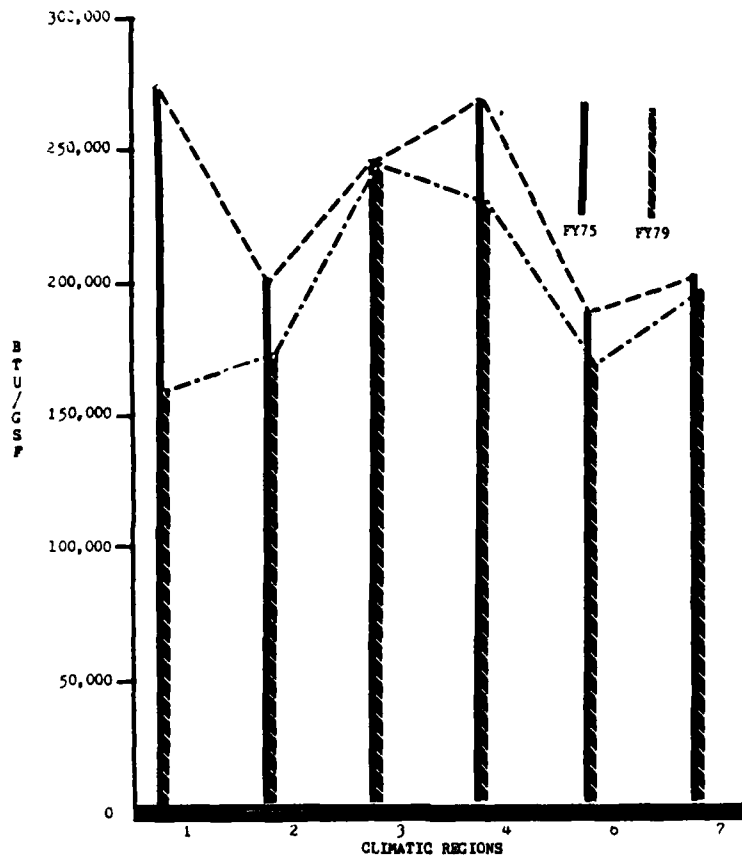


Figure 2

Each region is analyzed further with particular emphasis on the MACOM composition of each region. For this purpose, DARCOM has been divided into three parts: The industrial Government Owned-Contractor Operated (GOCO) facilities; Army Depots with their large storage facilities which are not energy intensive; and DARCOM-OTHER which includes Proving Grounds, Arsenal, Research Facilities, etc., which have similar energy consumption characteristics.

Climatic regions 4 and 1 are shown on figure 3. These regions had the highest BTU/GSF consumption levels in FY75. In region 4, the DARCOM GOCO ratio is the highest, as would be expected because these facilities include the manufacturing process energy used in their operations. The DARCOM-OTHER

grouping is the next highest. These industrial DARCOM activities were the major contributors to the 14.4 percent reduction in region 4. Inasmuch as these industrial facilities consume energy in keeping with a Tempo of operations which have reduced considerably since FY75, it stands out that without them, the performance in region 4 would be changed drastically. In fact, the remaining 15 Installations showed a net increase in BTU/GSF consumption of 1.8 percent.

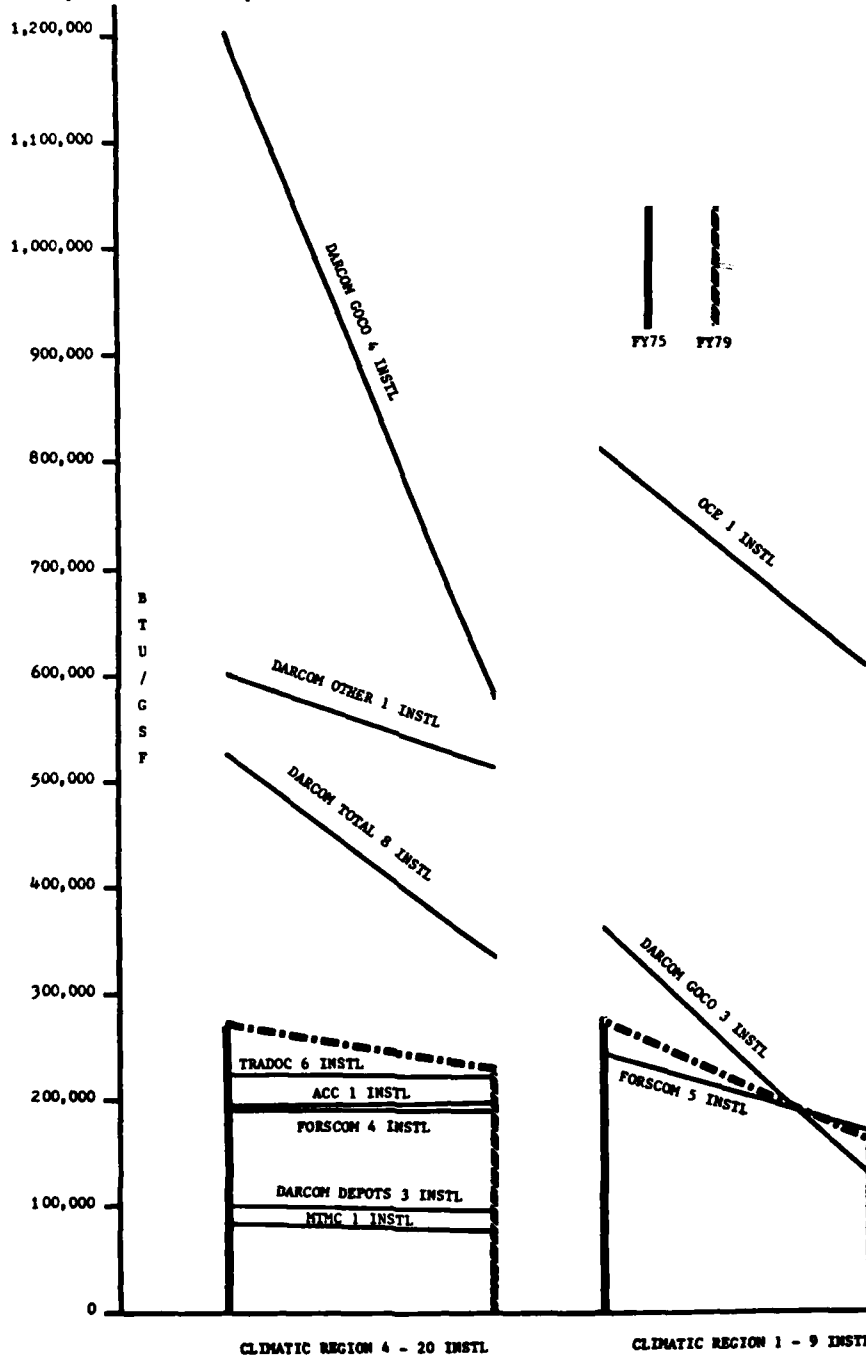


Figure 3

In region 1, the OCE research facility and the DARCOM GOCO consumption show steep decreases in BTU/GSF but the overall regional decrease of 41.3 percent was approached by the five FORSCOM Installations which reduced their rate of consumption by 30.4 percent.

Regions 2 and 3 are the most densely populated with Army Installations. Except for the DARCOM GOCO decrease in region 2, other decreases are quite moderate and the decrease of 13.7 percent would have been a decrease of 5.2 percent without the GOCO influence. Overall, the region 2 reductions, without the GOCO facilities, were the second largest reductions, behind only region 6. Figure 4 shows regions 2 & 3.

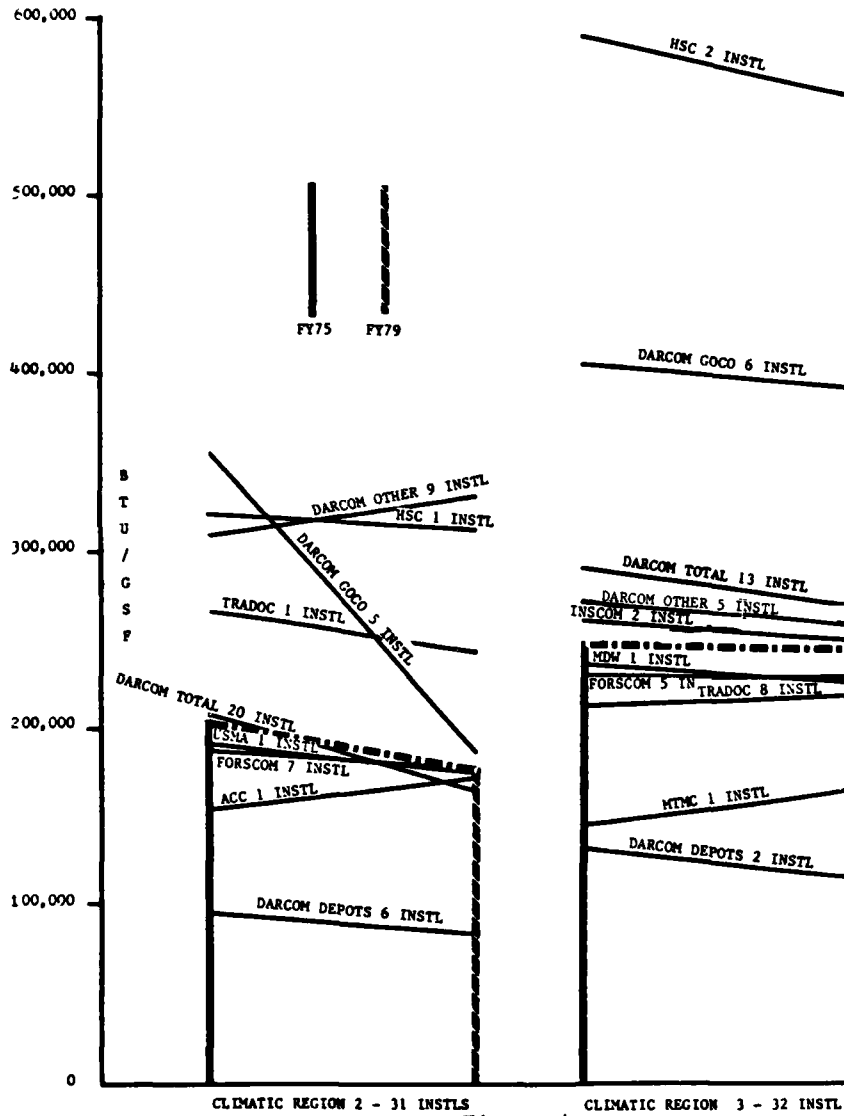


Figure 4

Region 3 consumed the highest BTU/GSF of any region in FY79. Overall, this region showed only a 0.5 percent decrease from FY75 and without the DARCOM GOCO & OTHER categories the region shows an overall increase of 2.2 percent.

Region 6 is the least populated region and contains no GOCO facilities. Yuma Proving Ground is the only DARCOM Installation. This region showed a decrease in BTU/GSF of 10.2 percent. This was the highest rate of reduction when industrial Installations are excluded. Figure 5 displays regions 6 & 7.

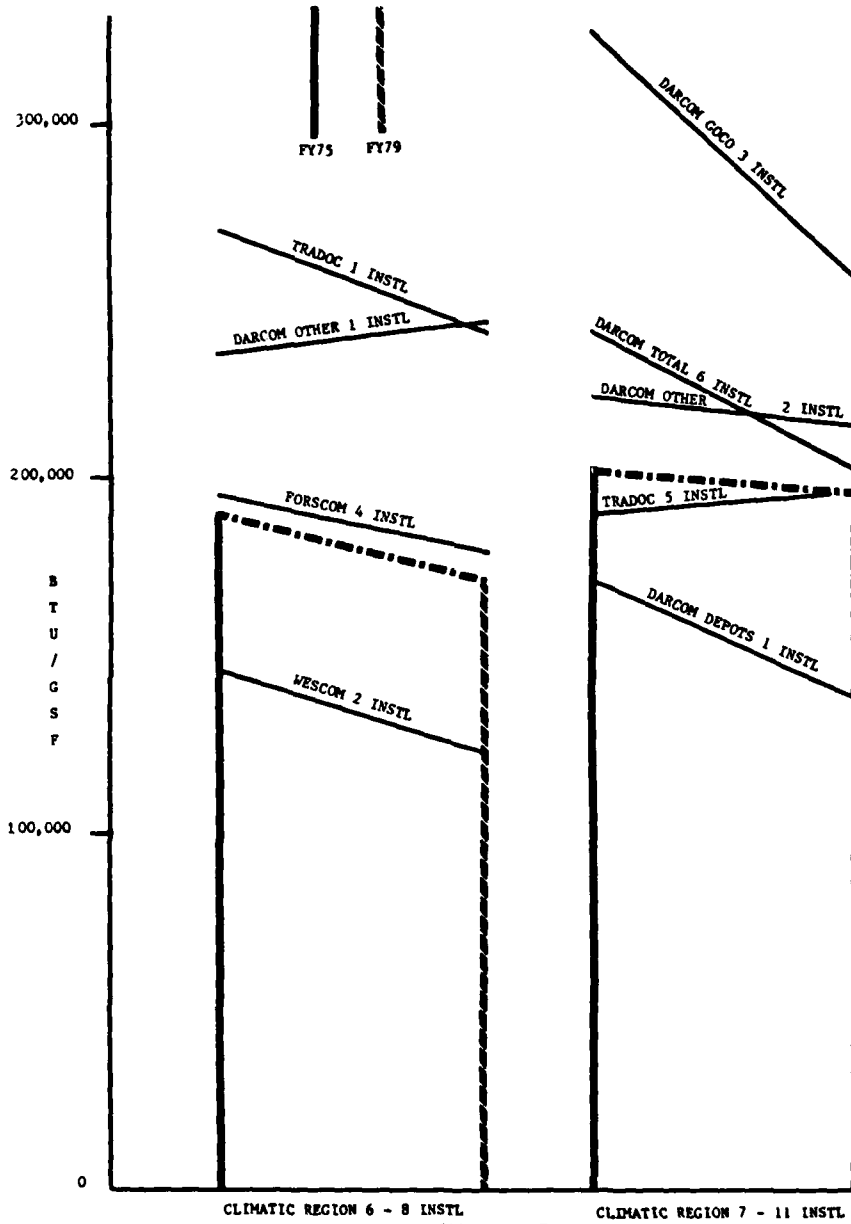


Figure 5

Region 7 again shows an overall regional decrease which is actually a 0.4 percent increase if the GOCO and DARCOM OTHER Installations are eliminated.

The United States total shows a reduction in BTU/GSF of 10.2 percent. A notable achievement and over half of the goal set for FY85. However, this accomplishment is fragile because without the industrial GOCO and "OTHER" DARCOM facilities the reduction is far less impressive.

One significant and commonly known factor is that the electrical energy consumption is increasing in spite of conservation efforts. The extent of this increase is more evident when the MACOMS are looked at from the viewpoint of Thermal BTU/GSF and Electrical BTU/GSF. The following Table 1 shows this data.

MACOM	PERCENT CHANGE IN FY79 FROM FY75		
	TOTAL BTU/GSF	THERMAL BTU/GSF	ELECTRIC BTU/GSF
OCE	-25.0	-54.4	-16.3
DARCOM	-21.9	-27.5	-10.5
WESCOM	-15.8	-26.0	-14.3
USMA	- 7.6	-11.6	+ 0.6
FORSCOM	- 7.0	-16.6	+ 6.8
MDW	- 5.0	-17.4	+ 5.5
INSCOM	- 4.3	-10.8	+ 0.8
HSC	- 0.7	-18.7	+25.4
TRADOC	+ 0.9	- 7.9	+13.2
ACC	+2.3	- 7.9	+13.6
MTMC	+19.2	+ 6.6	+44.7
US TOTAL	-10.2	-19.3	+ 4.1

Table 1

EFFECTS OF
THE
ENERGY CONSERVATION INVESTMENT PROGRAM
(ECIP)

The Military Construction (MILCON) Army ECIP program and its Family Housing ECIP counterpart are retrofit programs intended to reduce energy consumption in facilities. The Installation Data Sheets in the appendix have been posted with a symbol designating the calendar point when an ECIP project was completed. A short project title, cost and completion date is shown in the remarks section. This manner of posting permits quick identification of the results of these projects. Unfortunately, statistics alone do not permit absolute judgements and in several cases there is no apparent effect from an ECIP project. In other cases the improvement appears clearly at the same point in time but could have been caused by a wide variety of reasons known primarily by the Installation personnel. The analysis of the ECIP program is difficult but this section does look at several Installations which have enjoyed apparent success, apparent lack of success or no apparent change.

Forty-seven Installations have had 77 ECIP projects completed within the time frame of the study period. These 77 projects include 30 Family Housing ECIP projects at a cost of \$12.4 million and 47 MILCON ECIP projects at a cost of \$55.1 million. None of these projects are at GOCO facilities so they are not considered in this analysis. Family Housing ECIP projects range from as low as \$16,375 to \$1,046,907. MILCON ECIP projects do not overlap the OMA appropriation level so they range from a much higher threshold than the Family Housing projects do. Of the 47 Installations having completed projects, ten of them had 2 projects and ten of them had 3 projects completed.

A review of the ECIP projects shows that a great majority of them will save thermal energy but little or no electrical energy. Inasmuch as electrical energy consumption continues to rise it seems appropriate to look at thermal and electrical energy consumption separately. The Installation, MACOM and other Data Sheets do break these out in addition to the thermal BTU/GSF and electrical BTU/GSF. A look at Army-Wide, TRADOC and FORSCOM shows this trend very clearly. They are depicted in figures 6, 7 and 8.

Of the 77 completed projects, 2 of them were total electric conservation projects, 4 were partially electric saving and 4 were energy monitoring and control systems which are electric load shedding. The most statistically surprising project was a \$341,359 ECIP project for Lighting Improvements at Red River Army Depot (RRAD) which was completed in February 1977. RRAD shows a 7.6 percent electric energy reduction in FY76 (all comparison are made to FY75 base data) and a 32.7 percent reduction in FY77. This level was maintained in FY78 with a 29.9 percent reduction and again in FY79 with a 29.0 percent reduction. The identical pattern shows up in the electrical energy BTU/GSF ratios with -8.4 percent in FY76, -39.2 percent in FY77, -36.7 percent in FY78 and -36.6 in FY79. If this reduction is due largely to the ECIP project it should be exploited for application elsewhere. A similar project was completed at Ft Lewis in June 1978 and a very similar pattern is evident there where they achieved a 16.2 percent reduction in electrical energy consumption in FY79 compared to a 9.7 percent reduction in FY78 and a 4.2 percent reduction in FY77. An identical pattern is evident in the electric BTU/GSF at Ft Lewis.

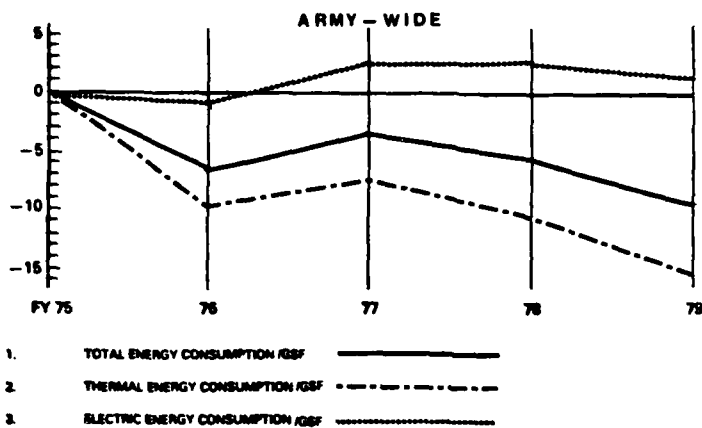


Figure 6

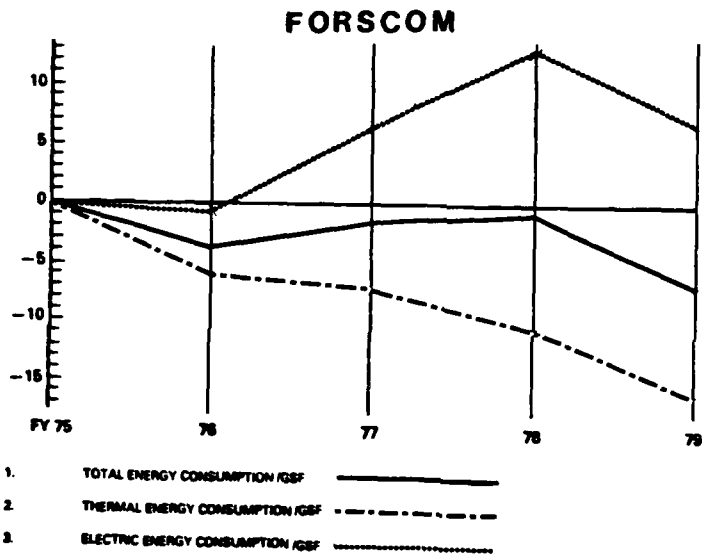


Figure 7

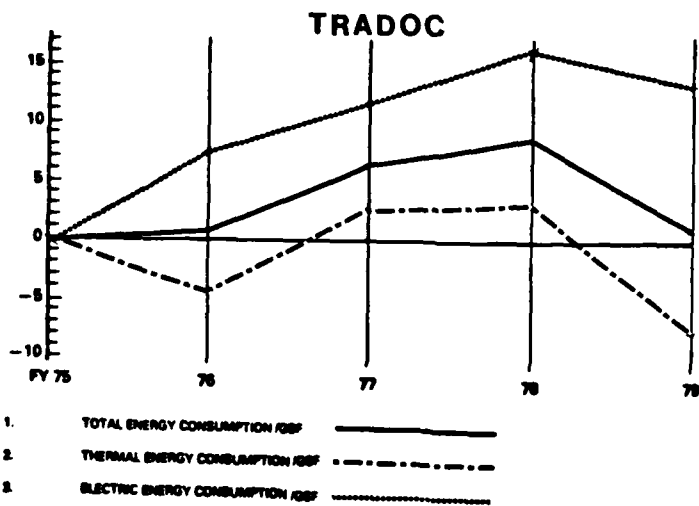


Figure 8

Several Installations show remarkable thermal savings after ECIP projects were completed. Letterkenny Army Depot had a \$2,661,496 Insulation project completed in the summer of 1978 and the FY79 thermal consumption dropped to 17.9 percent below the FY75 base, which is impressive compared to the FY78 thermal consumption which was 1.3 percent below the same base. The Lexington-Blue Grass Depot Activity had a \$979,000 Insulation project completed in May 1978 and the FY77, FY78 and FY79 levels of thermal energy consumption are -3.4 percent, -30.3 percent and -21.4 percent, respectively, compared to FY75. In both of these cases the corresponding thermal BTU/GSF ratios show similar reductions. The Natick Research and Development Center had 2 ECIP projects completed in FY78 and their statistics show a 5.1 percent reduction in thermal energy consumption in FY77 (before completion of the first ECIP project), a 10.2 percent reduction in FY78 and a 12.8 percent reduction in FY79. Pine Bluff Arsenal had 3 completed ECIP projects and they were predominately thermal energy saving. The first project was completed in FY77 and a reduction of 15.3 percent was achieved (it was down 9 percent in FY76) but the two additional ECIP projects contributed to savings of 20.8 percent in FY78 and 22 percent in FY79. Their improvement is more dramatic when looked at on the basis of thermal BTU/GSF because in FY76 they show a 29 percent increase compared to FY75 while FY77 shows a 14.4 percent reduction compared to the same base. This trend continued with savings of 19.8 percent and 23.3 percent in FY78 and FY79. Watervliet Arsenal had 2 ECIP projects completed there and every energy consumption statistic for total, thermal and electric energy shows an increase after the projects were completed. This case proves the point that the statistics cannot tell the whole story.

Ft Meade had 3 ECIP projects completed since January 1977 and, although FY77 shows an overall increase from FY75 and FY76, there is substantial reduction in thermal energy consumption in FY78 and FY79 of 18.3 and 30.7 percent respectively. The thermal BTU/GSF show similar improvements. However, this has not offset a 14 percent increase in electric energy in FY79 (34 percent increase in electric BTU/GSF).

The Alaskan Installations, Forts Greely, Richardson and Wainwright, had 7 ECIP projects between them. Three were at Ft Richardson and the savings in thermal energy and thermal BTU/GSF are substantial. The 3 ECIP projects at Ft Wainwright are equally impressive except that equally large savings are apparent in the statistics for FY77, the year prior to completion of the first project. Fort Greely had a single Family Housing ECIP project, but the statistics do reflect significant savings in thermal energy for the full year after completion.

Ft Belvoir had 3 ECIP projects completed and they do show thermal energy and thermal BTU/GSF savings in FY79, but the savings are not as significant as most of the other Installations. Ft Benning also had 3 completed projects but they also reflect a 17.7 percent increase in resident population and a 19.4 percent increase in effective population for FY79. In spite of this increased demand, the graph for Ft Benning in the appendix shows a distinct reduction in total energy consumption, thermal energy consumption, BTU/GSF, and a slight savings in electric energy consumption, when compared to FY78. Their FY 78 data are well above FY75 in all categories except active real property inventory. Ft Eustis also had 3 projects completed which totaled \$5.7 million. The FY79 figures show a 23 percent reduction compared to a 0.4 percent increase in FY 78, and the thermal BTU/GSF were reduced by 5 percent in FY79 from a 29.8 percent increase (above 75) for FY78. There is little significant change between FY77 and FY78, but overall the FY78 figures show more consumption than FY77 in

spite of the completion of an EMCS in FY77. Ft Jackson had a single project completed in FY79 but their overall energy consumption statistics show greater reductions than would be expected, compared to other cases examined. Ft Knox likewise had 3 completed ECIP projects but there is far less apparent effect than in most other cases. The Ft Knox graph in the appendix does show that the electric energy peaked in FY77 and is declining, but the thermal energy rose in FY78 before it declined in FY79.

A comparison between Installations with ECIP projects and without ECIP projects does not reveal any striking differences. Many Installations without ECIP projects show energy consumption on the decline and others do not. The same is true of Installations with ECIP projects. One point does stand out - the number of ECIP projects completed within the study period is quite small compared to the total number of projects which have been authorized under the ECIP program. The near future will more than likely show a sharper descent in energy consumption due to the ECIP as many more projects become completed. It will be very difficult to prove, but the overall reduction in energy consumption in Installations with ECIP projects is very encouraging.

SUMMARY OF PERFORMANCE INDICATORS DATA

This section consists of tables which present, for each Major Command, data on the following performance indicators:

Energy Consumption/Population Served
Energy Consumption/Effective Population
Electricity Consumption/Resident Population
Electricity Consumption/Ton of Air Conditioning
Real Property Inventory (GSF)/Effective Population
Energy Consumption/Gross Square Foot
Electricity Consumption/Gross Square Foot
Thermal Energy Consumption/Gross Square Foot

Within each Major Command for each performance indicator, installations are ranked in descending order. Data are presented for fiscal year 1979 and the percentage deviation from the base year.

MACOM	Installation	Energy Consumption/ Population Served (1979)	Installation	Percent Deviation Energy Consumption/ Population Served (1975-1979)
ACC	Fort Huachuca	69.8	Fort Huachuca	-19.3
ACC	Fort Ritchie	60.8	Fort Ritchie	-22.4
HSC	Fort Detrick	514.7	Walter Reed AMC	64.0
HSC	Walter Reed AMC	254.9	Fort Detrick	2.4
HSC	Fitzsimmons AMC	164.6	Fitzsimmons AMC	1.4
INSCOM	Vint Hill Farms Station	135.8	Arlington Hall Station	17.6
INSCOM	Arlington Hall Station	95.8	Vint Hill Farms Station	15.9
USMA	U.S. Military Academy	106.5	U.S. Military Academy	-19.4
MDW	Military District of Washington	29.9	Military District of Washington	-16.1
MTMC	Bayonne Military Ocean Terminal	285.7	Bayonne Military Ocean Terminal	12.6
MTMC	Military Traffic Mgt. Command (other)	100.9	Military Traffic Mgt. Command (other)	-45.3
OCE	Cold Regions Research Engr Lab	341.1	Cold Regions Research Engr Lab	22.1
WESCOM	Fort Shafter	91.9	Fort Shafter	87.7
WESCOM	Schofield Barracks	61.1	Schofield Barracks	-14.5

Table 2

MACOM	Installation	Energy Consumption/ Effective Population (1979)	Installation	Percent Deviation Energy Consumption/ Effective Population (1975-1979)
ACC	Fort Ritchie	118.7	Fort Ritchie	-0.7
ACC	Fort Huachuca	81.1	Fort Huachuca	-23.7
HSC	Fort Detrick	1,034.8	Walter Reed AMC	53.7
HSC	Walter Reed AMC	472.3	Fort Detrick	8.1
HSC	Fitzsimmons AMC	269.0	Fitzsimmons AMC	-1.7
INSCOM	Arlington Hall Station	252.2	Arlington Hall Station	22.5
INSCOM	Vint Hill Farms Station	186.0	Vint Hill Farms Station	13.3
USMA	U.S. Military Academy	129.5	U.S. Military Academy	-16.1
MDW	Military District of Washington	68.4	Military District of Washington	-15.7
MTMC	Bayonne Military Ocean Terminal	566.7	Bayonne Military Ocean Terminal	12.9
MTMC	Military Traffic Mgt. Command (other)	232.8	Military Traffic Mgt. Command (other)	-48.4
OCE	Cold Regions Research Engr Lab	1,019.6	Cold Regions Research Engr Lab	21.6
WESCOM	Fort Shafter	116.3	Fort Shafter	37.9
WESCOM	Schofield Barracks	64.7	Schofield Barracks	-21.4

Table 3

MACOM	Installation	Electricity Consumption/ Resident Population (1979)	Installation	Percent Deviation Electricity Consumption/ Resident Population (1975-1979)
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ACC	Fort Ritchie	118.5	Fort Ritchie	43.9
ACC	Fort Huachuca	46.7	Fort Huachuca	-17.1
HSC	Fort Detrick	1,109.2	Walter Reed AMC	69.1
HSC	Walter Reed AMC	477.5	Fort Detrick	44.4
HSC	Fitzsimmons AMC	118.2	Fitzsimmons AMC	13.4
INSCOM	Arlington Hall Station	916.4	Arlington Hall Station	67.5
INSCOM	Vint Hill Farms Station	120.9	Vint Hill Farms Station	15.3
USMA	U.S. Military Academy	51.7	U.S. Military Academy	-6.2
MDW	Military District of Washington	114.7	Military District of Washington	-4.9
MTMC	Military Traffic Mgt. Command (other)	385.4	Bayonne Military Ocean Terminal	38.1
MTMC	Bayonne Military Ocean Terminal	379.4	Military Traffic Mgt. Command (other)	-39.0
OCE	Cold Regions Research Engr Lab	-	Cold Regions Research Engr Lab	-
WESCOM	Fort Shafter	118.1	Fort Shafter	16.1
WESCOM	Schofield Barracks	59.3	Schofield Barracks	-26.8

Table 4

MACOM	Installation	Electricity Consumption/ Ton of Air Conditioning (1979)	Installation	Percent Deviation Electricity Consumption/ Ton of Air Conditioning (1975-1979)
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ACC	Fort Huachuca	142.0	Fort Ritchie	16.7
ACC	Fort Ritchie	78.4	Fort Huachuca	-14.1
HSC	Fitzsimmons AMC	189.9	Walter Reed AMC	97.0
HSC	Fort Detrick	143.8	Fort Detrick	46.8
HSC	Walter Reed AMC	85.9	Fitzsimmons AMC	-3.4
INSCOM	Arlington Hall Station	57.1	Arlington Hall Station	3.7
INSCOM	Vint Hill Farms Station	55.1	Vint Hill Farms Station	-0.9
USMA	U.S. Military Academy	90.8	U.S. Military Academy	-23.4
MDW	Military District of Washington	77.1	Military District of Washington	9.4
MTMC	Military Traffic Mgt. Command (other)	562.2	Military Traffic Mgt. Command (other)	21.9
MTMC	Bayonne Military Ocean Terminal	165.6	Bayonne Military Ocean Terminal	-2.8
OCE	Cold Regions Research Engr Lab	501.1	Cold Regions Research Engr Lab	-30.2
WESCOM	Schofield Barracks	238.9	Fort Shafter	21.8
WESCOM	Fort Shafter	235.3	Schofield Barracks	-33.2

Table 5

MACOM	Installation	Real Property Inventory (GSF)/ Effective Population (1979)	Installation	Percent Deviation Real Property Inventory (GSF)/ Effective Population (1975-1979)
ACC	Fort Ritchie	0.69	Fort Ritchie	-10.4
ACC	Fort Huachuca	0.41	Fort Huachuca	-24.1
HSC	Walter Reed AMC	1.18	Walter Reed AMC	78.5
HSC	Fort Detrick	0.87	Fitzsimmons AMC	0.6
HSC	Fitzsimmons AMC	0.86	Fort Detrick	-30.0
INSCOM	Arlington Hall Station	0.93	Arlington Hall Station	27.5
INSCOM	Vint Hill Farms Station	0.80	Vint Hill Farms Station	18.6
USMA	U.S. Military Academy	0.74	U.S. Military Academy	-9.2
MDW	Military District of Washington	0.30	Military District of Washington	-11.8
MTMC	Bayonne Military Ocean Terminal	3.43	Bayonne Military Ocean Terminal	-0.2
MTMC	Military Traffic Mgt. Command (other)	2.98	Military Traffic Mgt. Command (other)	-45.5
OCE	Cold Regions Research Engr Lab	1.68	Cold Regions Research Engr Lab	62.2
WESCOM	Fort Shafter	0.99	Fort Shafter	32.4
WESCOM	Schofield Barracks	0.50	Schofield Barracks	2.1

Table 6

MACOM	Installation	Energy Consumption/ Gross Square Foot (1979)	Installation	Percent Deviation Energy Consumption/ Gross Square Foot (1975-1979)
ACC	Fort Huachuca	195,613	Fort Ritchie	11.5
ACC	Fort Ritchie	172,371	Fort Huachuca	0.5
HSC	Fort Detrick	1,190,923	Fort Detrick	54.6
HSC	Walter Reed AMC	401,302	Fitzsimmons AMC	-2.3
HSC	Fitzsimmons AMC	311,625	Walter Reed AMC	-13.9
INSCOM	Arlington Hall Station	271,732	Arlington Hall Station	-4.0
INSCOM	Vint Hill Farms Station	232,802	Vint Hill Farms Station	-4.5
USMA	U.S. Military Academy	176,060	U.S. Military Academy	-7.6
MDW	Military District of Washington	225,421	Military District of Washington	-5.0
MTMC	Bayonne Military Ocean Terminal	165,244	Bayonne Military Ocean Terminal	13.1
MTMC	Military Traffic Mgt. Command (other)	78,213	Military Traffic Mgt. Command (other)	-5.4
OCE	Cold Regions Research Engr Lab	607,994	Cold Regions Research Engr Lab	-25.0
WESCOM	Schofield Barracks	128,193	Fort Shafter	4.2
WESCOM	Fort Shafter	117,278	Schofield Barracks	-23.0

Table 7

MACOM	Installation	Electricity Consumption/ Gross Square Foot (1979)	Installation	Percent Deviation Electricity Consumption/ Gross Square Foot (1975-1979)
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ACC	Fort Huachuca	103,674	Fort Ritchie	14.7
ACC	Fort Ritchie	90,051	Fort Huachuca	13.4
HSC	Fort Detrick	631,189	Fort Detrick	86.2
HSC	Walter Reed AMC	232,755	Fitzsimmons AMC	17.2
HSC	Fitzsimmons AMC	93,487	Walter Reed AMC	6.3
INSCOM	Arlington Hall Station	182,060	Arlington Hall Station	2.1
INSCOM	Vint Hill Farms Station	123,385	Vint Hill Farms Station	-0.7
USMA	U.S. Military Academy	62,627	U.S. Military Academy	0.6
MDW	Military District of Washington	135,253	Military District of Washington	5.5
MTMC	Bayonne Military Ocean Terminal	56,183	Military Traffic Mgt. Command (other)	40.1
MTMC	Military Traffic Mgt. Command (other)	44,825	Bayonne Military Ocean Terminal	37.4
OCE	Cold Regions Research Engr Lab	522,869	Cold Regions Research Engr Lab	-16.3
WESCOM	Schofield Barracks	114,092	Fort Shafter	19.0
WESCOM	Fort Shafter	103,204	Schofield Barracks	-24.7

Table 8

TRADOC

Installation	Electricity Consumption/ Gross Square Foot (1979)	Installation	Percent Deviation Electricity Consumption/ Gross Square Foot (1975-1979)
Fort Belvoir	157,714	Fort McClellan	57.0
Fort Rucker	138,172	Fort Lee	55.2
Fort Gordon	132,524	Fort Hamilton	38.2
Fort Eustis	131,442	Fort Eustis	36.4
Fort Lee	120,789	Fort Belvoir	32.1
Fort McClellan	117,273	Fort Benning	24.3
Fort Benjamin Harrison	113,988	Fort Sill	13.8
Carlisle Barracks	109,314	Fort Leavenworth	11.2
Fort Leonard Wood	107,683	Fort Leonard Wood	7.2
Fort Benning	102,041	Fort A. P. Hill	6.7
Fort Sill	101,426	Fort Bliss	6.3
Fort Jackson	95,272	Fort Gordon	6.0
Fort Monroe	93,135	Fort Knox	2.0
Fort Bliss	91,073	Fort Dix	0.8
Fort Leavenworth	84,027	Fort Rucker	-3.3
Fort Knox	75,337	Fort Monroe	-4.3
Fort Dix	71,140	Fort Benjamin Harrison	-4.5
Fort A. P. Hill	70,798	Carlisle Barracks	-7.0
Fort Hamilton	59,700	Fort Chaffee	-8.9
Fort Pickett	26,014	Fort Jackson	-9.3
Fort Chaffee	13,434	Fort Pickett	-42.0

Table 10

TRADOC

Installation	Thermal Energy Consumption/ Gross Square Foot (1979)	Installation	Percent Deviation Thermal Energy Consumption/ Gross Square Foot (1975-1979)
Fort Dix	158,345	Fort Hamilton	57.8
Fort Gordon	137,133	Fort Benning	5.8
Fort Jackson	137,099	Fort McClellan	0.9
Fort Belvoir	129,039	Fort Sill	0.8
Fort Benjamin Harrison	128,539	Fort Knox	-2.3
Fort Knox	128,278	Fort Dix	-3.9
Carlisle Barracks	123,271	Fort Eustis	-5.0
Fort Hamilton	121,209	Fort Jackson	-5.5
Fort Leonard Wood	116,656	Fort A. P. Hill	-5.5
Fort Eustis	116,562	Fort Belvoir	-11.5
Fort Benning	115,068	Fort Monroe	-11.8
Fort Sill	109,878	Fort Benjamin Harrison	-11.9
Fort Lee	107,115	Fort Leonard Wood	-15.9
Fort Rucker	104,235	Fort Bliss	-16.5
Fort McClellan	99,899	Fort Gordon	-16.8
Fort Bliss	91,023	Fort Rucker	-17.8
Fort Leavenworth	87,457	Fort Chaffee	-19.3
Fort A. P. Hill	83,115	Carlisle Barracks	-20.9
Fort Monroe	70,261	Fort Lee	-22.6
Fort Pickett	33,109	Fort Leavenworth	-26.0
Fort Chaffee	16,420	Fort Pickett	-50.8

Table 11

TRADOC

Installation	Energy Consumption/ Gross Square Foot (1979)	Installation	Percent Deviation Energy Consumption/ Gross Square Foot (1975-1979)
Fort Belvoir	286,753	Fort Hamilton	50.8
Fort Gordon	270,457	Fort McClellan	25.0
Fort Eustis	248,004	Fort Benning	13.7
Fort Benjamin Harrison	242,527	Fort Eustis	13.2
Fort Rucker	242,407	Fort Belvoir	8.1
Carlisle Barracks	232,586	Fort Sill	6.6
Fort Jackson	232,372	Fort Lee	5.4
Fort Dix	229,486	Fort A. P. Hill	-0.2
Fort Lee	227,904	Fort Knox	-0.8
Fort Leonard Wood	224,339	Fort Dix	-2.5
Fort McClellan	217,172	Fort Leonard Wood	-6.1
Fort Benning	217,110	Fort Bliss	-6.5
Fort Sill	211,304	Fort Gordon	-7.0
Fort Knox	203,615	Fort Jackson	-7.1
Fort Bliss	182,146	Fort Monroe	-7.7
Fort Hamilton	180,909	Fort Benjamin Harrison	-8.6
Fort Leavenworth	171,484	Fort Rucker	-10.1
Fort Monroe	163,396	Fort Leavenworth	-11.5
Fort A. P. Hill	153,913	Carlisle Barracks	-14.9
Fort Pickett	59,123	Fort Chaffee	-14.9
Fort Chaffee	29,855	Fort Pickett	-47.3

Table 12

TRADOC

Installation	Real Property Inventory (GSF)/ Effective Population (1979)	Installation	Percent Deviation Real Property Inventory (GSF) /Effective Population (1975-1979)
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Fort Chaffee	4.55	Fort Chaffee	385.0
Fort Pickett	1.98	Fort Pickett	159.7
Fort Monroe	1.20	Fort Monroe	76.9
Fort Benjamin Harrison	0.98	Fort Benjamin Harrison	66.2
Fort Leavenworth	0.80	Fort A. P. Hill	37.3
Fort Belvoir	0.76	Fort Hamilton	29.3
Carlisle Barracks	0.74	Fort Leonard Wood	28.6
Fort Dix	0.74	Fort Jackson	17.7
Fort Bliss	0.66	Fort Belvoir	15.0
Fort Hamilton	0.64	Fort Rucker	13.0
Fort A. P. Hill	0.61	Fort Knox	6.4
Fort Benning	0.61	Carlisle Barracks	6.0
Fort Sill	0.61	Fort Dix	4.9
Fort Knox	0.61	Fort Leavenworth	2.9
Fort Jackson	0.60	Fort Bliss	1.5
Fort Lee	0.59	Fort Sill	-5.6
Fort Rucker	0.59	Fort Gordon	-6.8
Fort Eustis	0.56	Fort Lee	-9.2
Fort Leonard Wood	0.55	Fort Eustis	-9.6
Fort Gordon	0.55	Fort Benning	-19.6
Fort McClellan	0.49	Fort McClellan	-35.6

Table 13

TRADOC

Installation	Electricity Consumption/ Ton of Air Conditioning (1979)	Installation	Percent Deviation Electricity Consumption/ Ton of Air Conditioning (1975-1979)
Fort Bliss	269.2	Fort Dix	12.6
Fort Pickett	266.9	Fort Gordon	6.0
Fort A. P. Hill	187.0	Fort McClellan	5.9
Fort Knox	183.4	Fort Knox	5.7
Fort Dix	159.7	Fort Sill	5.0
Fort Belvoir	112.4	Fort Bliss	4.5
Fort Hamilton	100.2	Fort Rucker	-1.7
Fort Leavenworth	100.0	Fort Eustis	-2.5
Carlisle Barracks	95.6	Fort Jackson	-4.9
Fort Eustis	92.6	Fort Hamilton	-7.9
Fort McClellan	82.0	Fort Benning	-9.6
Fort Leonard Wood	81.5	Fort Benjamin Harrison	-9.7
Fort Jackson	79.2	Fort Belvoir	-13.8
Fort Monroe	78.8	Fort Leavenworth	-18.7
Fort Lee	78.4	Carlisle Barracks	-21.8
Fort Benning	75.6	Fort Chaffee	-29.5
Fort Rucker	75.4	Fort Lee	-32.7
Fort Sill	73.4	Fort Leonard Wood	-34.9
Fort Chaffee	64.8	Fort A. P. Hill	-37.0
Fort Benjamin Harrison	63.2	Fort Monroe	-50.9
Fort Gordon	61.3	Fort Pickett	-62.3

Table 14

TRADOC

Installation	Electricity Consumption/ Resident Population (1979)	Installation	Percent Deviation Electricity Consumption/ Resident Population (1975-1979)
Fort Monroe	218.4	Fort Chaffee	380.0
Fort Benjamin Harrison	182.3	Fort Monroe	131.2
Fort Belvoir	152.4	Fort Pickett	79.8
Carlisle Barracks	106.2	Fort Hamilton	78.3
Fort Rucker	98.2	Fort Belvoir	56.7
Fort Gordon	88.2	Fort A. P. Hill	52.2
Fort Eustis	83.3	Fort Lee	36.1
Fort Lee	83.1	Fort Leonard Wood	33.4
Fort McClellan	79.0	Fort Eustis	25.6
Fort Sill	75.6	Fort McClellan	16.0
Fort Leavenworth	75.3	Fort Leavenworth	15.7
Fort Bliss	75.1	Fort Benjamin Harrison	14.1
Fort Benning	74.7	Fort Dix	10.6
Fort Pickett	69.2	Fort Bliss	10.2
Fort Chaffee	69.1	Fort Rucker	8.4
Fort Jackson	64.8	Fort Knox	6.5
Fort Leonard Wood	61.1	Fort Jackson	3.4
Fort Dix	59.1	Fort Sill	1.5
Fort Knox	52.8	Fort Benning	1.4
Fort A. P. Hill	49.7	Carlisle Barracks	-1.0
Fort Hamilton	40.8	Fort Gordon	-7.2

Table 15

TRADOC

Installation	Energy Consumption/ Effective Population (1979)	Installation	Percent Deviation Energy Consumption/ Effective Population (1975-1979)
Fort Benjamin Harrison	238.5	Fort Chaffee	312.5
Fort Belvoir	216.5	Fort Hamilton	94.9
Fort Monroe	196.0	Fort Monroe	63.3
Carlisle Barracks	171.0	Fort Benjamin Harrison	51.9
Fort Dix	170.0	Fort A. P. Hill	37.0
Fort Gordon	147.7	Fort Pickett	37.0
Fort Jackson	140.3	Fort Belvoir	24.4
Fort Eustis	138.4	Fort Leonard Wood	20.7
Fort Leavenworth	137.0	Fort Jackson	9.4
Fort Chaffee	135.9	Fort Knox	5.6
Fort Rucker	135.4	Fort Eustis	2.4
Fort Lee	134.7	Fort Dix	2.3
Fort Benning	131.8	Fort Rucker	1.6
Fort Sill	129.4	Fort Sill	0.6
Fort Knox	125.1	Fort Lee	-4.3
Fort Leonard Wood	122.9	Fort Bliss	-5.0
Fort Bliss	119.5	Fort Benning	-8.6
Fort Pickett	117.2	Fort Leavenworth	-8.9
Fort Hamilton	115.9	Carlisle Barracks	-9.8
Fort McClellan	106.9	Fort Gordon	-13.3
Fort A. P. Hill	93.4	Fort McClellan	-19.4

Table 16

TRADOC

Installation	Energy Consumption/ Population Served (1979)	Installation	Percent Deviation Energy Consumption/ Population Served (1975-1979)
Fort Belvoir	150.6	Fort Chaffee	261.7
Fort Dix	139.8	Fort Hamilton	95.7
Fort Benjamin Harrison	134.7	Fort Benjamin Harrison	81.6
Fort Leonard Wood	115.0	Fort Monroe	32.4
Carlisle Barracks	115.0	Fort A. P. Hill	29.9
Fort Jackson	114.5	Fort Leonard Wood	27.8
Fort Leavenworth	112.6	Fort Belvoir	20.2
Fort Eustis	111.6	Fort Jackson	14.5
Fort Chaffee	110.6	Fort Pickett	10.9
Fort Gordon	107.9	Fort Knox	8.4
Fort Lee	105.0	Fort Sill	7.2
Fort Hamilton	103.2	Fort Rucker	2.5
Fort Knox	100.4	Fort Lee	0.2
Fort Monroe	99.2	Fort Eustis	-0.3
Fort Benning	98.2	Fort Dix	-4.7
Fort Sill	95.4	Fort Gordon	-7.1
Fort Rucker	94.8	Fort Bliss	-7.2
Fort Bliss	84.9	Fort Benning	-10.2
Fort Pickett	77.6	Carlisle Barracks	-10.3
Fort A. P. Hill	73.5	Fort Leavenworth	-10.4
Fort McClellan	69.4	Fort McClellan	-30.7

Table 17

DARCOM

Installation	Electricity Consumption/ Gross Square Foot (1979)	Installation	Percent Deviation Electricity Consumption/ Gross Square Foot (1975-1979)
Detroit Arsenal	440,834	Sunflower AAP	148.4
Harry Diamond Lab	391,258	Detroit Arsenal	92.6
Redstone Arsenal	302,164	Kansas AAP	84.2
Holston AAP	287,617	Harry Diamond Lab	74.9
Yuma Proving Ground	227,226	Picatunny Arsenal	63.1
Watervliet Arsenal	225,507	Cornhusker AAP	52.4
White Sands Missile Range	190,900	New Cumberland Army Depot	38.7
Natick Research & Development Center	150,009	Watervliet Arsenal	34.4
Michigan Army Missile Plant	136,036	Seneca Army Depot	28.9
Longhorn AAP	131,127	Sierra Army Depot	27.9
Riverbank AAP	129,439	White Sands Missile Range	26.3
Army Materials & Mechanics Research Center	124,111	Newport AAP	13.0
Aberdeen Proving Ground	119,766	Letterkenny Army Depot	12.5
Lake City AAP	119,317	Rock Island Arsenal	11.9
Newport AAP	105,521	Tobyhanna Army Depot	9.9
Dugway Proving Ground	101,970	Longhorn AAP	9.9
Fort Monmouth	97,425	Lake City AAP	8.7
Kansas AAP	85,291	Pine Bluff Arsenal	7.7
Sacramento Army Depot	81,557	Natick Research & Development Center	7.1
Volunteer AAP	81,288	Yuma Proving Ground	4.8
New Cumberland Army Depot	78,949	Army Materials & Mechanics Research Center	4.1
Twin Cities AAP	77,293	Anniston Army Depot	2.5
Letterkenny Army Depot	76,815	Sharpe Army Depot	1.5
Cornhusker AAP	75,062	Louisiana AAP	0.5
Picatunny Arsenal	74,863	Aberdeen Proving Ground	-2.2
Rock Island Arsenal	71,096	Sacramento Army Depot	-8.3
Radford AAP	68,127	Fort Monmouth	-8.3
Red River Army Depot	66,294	Redstone Arsenal	-10.5
Lone Star AAP	65,386	Selfridge Area Support Center	-11.2
Tobyhanna Army Depot	65,363	Dugway Proving Ground	-11.6
Sunflower AAP	61,352	Lone Star AAP	-13.5
Anniston Army Depot	59,266	St. Louis Area Support Center	-18.3
Underhill Firing Range	56,815	Ravenna AAP	-20.2
Louisiana AAP	55,978	Indiana AAP	-21.1
Iowa AAP	53,872	Radford AAP	-21.2
Rocky Mountain Arsenal	49,174	Michigan Army Missile Plant	-22.8
Joliet AAP	44,513	Tooele Army Depot	-25.7
Jefferson Proving Ground	44,144	Jefferson Proving Ground	-26.2
Indiana AAP	37,420	Lexington-Blue Grass	-31.8
St. Louis Area Support Center	36,558	Holston AAP	-33.5
Milan AAP	36,470	Savanna Army Depot	-34.1
Lexington-Blue Grass	36,410	Red River Army Depot	-36.6
Pine Bluff Arsenal	35,352	Milan AAP	-38.4
Seneca Army Depot	32,514	Twin Cities AAP	-48.9
Sharpe Army Depot	30,022	Iowa AAP	-50.1
Selfridge Area Support Center	25,973	Riverbank AAP	-56.7
Tooele Army Depot	23,183	Rocky Mountain Arsenal	-59.4
Sierra Army Depot	21,815	Underhill Firing Range	-61.8
Badger AAP	19,639	Joliet AAP	-65.6
Savanna Army Depot	10,516	Badger AAP	-67.6
Ravenna AAP	8,463	Volunteer AAP	-84.4
Scranton AAP	-	Scranton AAP	-
Alabama Army Depot	-	Alabama Army Depot	-
Frankford Arsenal	-	Frankford Arsenal	-

Table 18

DARCOM

Installation	Thermal Energy Consumption/ Gross Square Foot (1979)	Installation	Percent Deviation Thermal Energy Consumption /Gross Square Foot (1975-1979)
Holston AAP	1,226,158	Sunflower AAP	305.8
Radford AAP	969,767	Newport AAP	71.6
Detroit Arsenal	661,252	Detroit Arsenal	62.5
Longhorn AAP	393,384	Harry Diamond Lab	33.2
Picatinny Arsenal	385,538	Cornhusker AAP	28.8
Iowa AAP	263,022	Michigan Army Missile Plant	26.0
Lake City AAP	231,615	Watervliet Arsenal	19.2
Michigan Army Missile Plant	221,954	Kansas AAP	17.7
Redstone Arsenal	209,978	Selfridge Area Support Center	17.7
Watervliet Arsenal	208,160	Iowa AAP	9.3
Lone Star AAP	207,055	Army Materials & Mechanics Research Center	8.4
Newport AAP	195,970	Savanna Army Depot	7.7
Aberdeen Proving Ground	195,408	Red River Army Depot	7.5
Army Materials & Mechanics Research Center	171,393	Rock Island Arsenal	6.5
Harry Diamond Lab	167,682	Sacramento Army Depot	4.3
Rock Island Arsenal	167,511	Longhorn AAP	4.1
Tobyhanna Army Depot	152,514	Lake City AAP	3.9
Fort Monmouth	140,198	Fort Monmouth	-0.5
Natick Research & Development Center	138,470	Seneca Army Depot	-3.0
Kansas AAP	133,405	Aberdeen Proving Ground	-6.2
Dugway Proving Ground	114,987	Picatinny Arsenal	-8.0
Joliet AAP	114,463	Anniston Army Depot	-9.2
Twin Cities AAP	111,227	Yuma Proving Ground	-9.3
Cornhusker AAP	108,020	Dugway Proving Ground	-11.6
Pine Bluff Arsenal	100,619	Natick Research & Development Center	-12.3
White Sands Missile Range	81,814	Sharpe Army Depot	-12.4
Milan AAP	81,175	Tobyhanna Army Depot	-14.5
New Cumberland Army Depot	78,949	Letterkenny Army Depot	-18.4
Red River Army Depot	71,818	Redstone Arsenal	-20.8
Rocky Mountain Arsenal	70,763	Lexington-Blue Grass	-23.1
Jefferson Proving Ground	56,186	Pine Bluff Arsenal	-23.3
Louisiana AAP	55,979	St. Louis Area Support Center	-24.
Riverbank AAP	55,475	Sierra Army Depot	-24.
Sacramento Army Depot	52,143	New Cumberland Army Depot	-25.
Badger AAP	50,500	White Sands Missile Range	-25.5
Anniston Army Depot	46,567	Tooele Army Depot	-28.8
Indiana AAP	43,928	Milan AAP	-29.5
Savanna Army Depot	42,068	Indiana AAP	-30.1
St. Louis Area Support Center	39,605	Lone Star AAP	-31.5
Lexington-Blue Grass	37,896	Radford AAP	-31.8
Tooele Army Depot	37,825	Jefferson Proving Ground	-32.0
Underhill Firing Range	36,337	Twin Cities AAP	-34.8
Seneca Army Depot	35,223	Ravenna AAP	-40.5
Selfridge Area Support Center	34,430	Rocky Mountain Arsenal	-48.1
Sunflower AAP	25,060	Holston AAP	-50.0
Sierra Army Depot	20,959	Riverbank AAP	-54.6
Yuma Proving Ground	17,104	Louisiana AAP	-58.9
Ravenna AAP	11,218	Underhill Firing Range	-64.9
Sharpe Army Depot	11,104	Joliet AAP	-77.9
Redstone Arsenal	-	Badger AAP	-85.3
Frankford Arsenal	-	Volunteer AAP	-
Alabama Army Depot	-	Frankford Arsenal	-
Scranton AAP	-	Alabama Army Depot	-
Volunteer AAP	-	Scranton AAP	-

DARCOM

Installation	Energy Consumption/ Gross Square Foot (1979)	Installation	Percent Deviation Energy Consumption/ Gross Square Foot (1975-1979)
Holston AAP	1,513,776	Sunflower AAP	179.9
Detroit Arsenal	1,102,086	Detroit Arsenal	73.3
Radford AAP	1,037,894	Harry Diamond Lab	59.9
Harry Diamond Lab	558,940	Newport AAP	45.2
Longhorn AAP	524,511	Cornhusker AAP	37.5
Redstone Arsenal	512,142	Kansas AAP	37.0
Picatinny Arsenal	460,401	Watervliet Arsenal	26.6
Watervliet Arsenal	433,667	Seneca Army Depot	10.1
Michigan Army Missile Plant	357,990	Rock Island Arsenal	8.0
Lake City AAP	350,932	Army Materials & Mechanics Research Center	6.6
Iowa AAP	316,894	Lake City AAP	5.5
Aberdeen Proving Ground	315,174	Longhorn AAP	5.5
Newport AAP	301,491	White Sands Missile Range	4.6
Army Materials & Mechanics Research Center	295,503	Yuma Proving Ground	3.6
Natick Research & Development Center	288,479	Selfridge Area Support Center	3.3
White Sands Missile Range	272,714	Michigan Army Missile Plant	1.6
Lone Star AAP	272,441	Picatinny Arsenal	-1.0
Yuma Proving Ground	244,330	Sharpe Army Depot	-2.7
Rock Island Arsenal	238,607	New Cumberland Army Depot	-2.9
Fort Monmouth	237,624	Anniston Army Depot	-3.0
Kansas AAP	218,696	Natick Research & Development	-3.2
Tobyhanna Army Depot	217,877	Sacramento Army Depot	-3.8
Dugway Proving Ground	216,957	Fort Monmouth	-3.8
Twin Cities AAP	188,520	Letterkenny Army Depot	-3.9
Riverbank AAP	184,914	Savanna Army Depot	-4.4
Cornhusker AAP	183,083	Aberdeen Proving Ground	-4.7
Joliet AAP	158,975	Sierra Army Depot	-4.7
New Cumberland Army Depot	157,898	Tobyhanna Army Depot	-8.4
Letterkenny Army Depot	139,663	Iowa AAP	-9.1
Red River Army Depot	138,112	Dugway Proving Ground	-11.6
Pine Bluff Arsenal	135,971	Redstone Arsenal	-15.0
Sacramento Army Depot	133,700	Pine Bluff Arsenal	-17.2
Rocky Mountain Arsenal	119,937	Red River Army Depot	-19.4
Milan AAP	117,645	St. Louis Area Support Center	-21.7
Louisiana AAP	111,957	Indiana AAP	-26.2
Anniston Army Depot	105,833	Lexington-Blue Grass	-27.6
Jefferson Proving Ground	100,330	Tooele Army Depot	-27.7
Underhill Firing Range	93,152	Lone Star AAP	-27.9
Sunflower AAP	86,412	Jefferson Proving Ground	-29.6
Indiana AAP	81,347	Radford AAP	-31.2
Volunteer AAP	81,288	Milan AAP	-32.5
St. Louis Area Support Center	76,163	Ravenna AAP	-33.2
Lexington-Blue Grass	74,306	Twin Cities AAP	-41.4
Badger AAP	70,139	Louisiana AAP	-41.7
Seneca Army Depot	67,737	Holston AAP	-47.5
Tooele Army Depot	61,008	Rocky Mountain Arsenal	-53.4
Selfridge Area Support Center	60,403	Riverbank AAP	-56.1
Savanna Army Depot	52,585	Underhill Firing Range	-63.1
Sierra Army Depot	42,774	Joliet AAP	-75.4
Sharpe Army Depot	41,126	Badger AAP	-82.6
Ravenna AAP	19,681	Volunteer AAP	-94.5
Scranton AAP	-	Frankford Arsenal	-
Alabama Army Depot	-	Alabama Army Depot	-
Frankford Arsenal	-	Scranton AAP	-

Table 20

DARCOM

Installation	Real Property Inventory (GSF)/ Effective Population (1979)	Installation	Percent Deviation Real Property Inventory (GSF) /Effective Population (1975-1979)
Badger AAP	69.37	Underhill Firing Range	152.5
Ravenna AAP	31.88	Badger AAP	134.0
Sunflower AAP	17.32	Rocky Mountain Arsenal	118.5
Savanna Army Depot	13.64	Volunteer AAP	116.5
Volunteer AAP	13.33	Lexington-Blue Grass	110.7
Rocky Mountain Arsenal	11.23	Savanna Army Depot	102.0
Joliet AAP	10.17	Indiana AAP	86.1
Tooele Army Depot	9.44	Longhorn AAP	82.1
Louisiana AAP	9.06	Harry Diamond Lab	66.4
Iowa AAP	8.79	Iowa AAP	66.4
Lexington-Blue Grass	8.13	Jefferson Proving Ground	65.8
Riverbank AAP	7.02	Radford AAP	64.0
Indiana AAP	6.83	Riverbank AAP	62.0
Newport AAP	6.56	Watervliet Arsenal	32.9
Twin Cities AAP	6.35	Lake City AAP	32.0
Milan AAP	6.27	Joliet AAP	31.9
Underhill Firing Range	6.13	Louisiana AAP	30.9
Anniston Army Depot	5.09	Yuma Proving Ground	24.7
Sharpe Army Depot	4.78	Lone Star AAP	20.1
Jefferson Proving Ground	4.59	St. Louis Area Support Center	20.1
Lone Star AAP	4.59	Dugway Proving Ground	17.4
Pine Bluff Arsenal	4.53	Ravenna AAP	16.1
Lake City AAP	4.40	Sharpe Army Depot	13.9
Sierra Army Depot	4.27	Red River Army Depot	11.4
Longhorn AAP	4.25	Twin Cities AAP	6.3
St. Louis Area Support Center	3.96	Redstone Arsenal	4.8
Radford AAP	3.94	Tooele Army Depot	3.7
Seneca Army Depot	3.74	Sacramento Army Depot	3.6
Holston AAP	3.63	Letterkenny Army Depot	3.1
Letterkenny Army Depot	3.43	Natrack Research & Development Center	2.3
Red River Army Depot	3.37		
Kansas AAP	3.29	Milan AAP	1.09
Sacramento Army Depot	2.93	Michigan Army Missile Plant	0.5
Army Materials & Mechanics Research Center	2.85	Holston AAP	-0.04
Michigan Army Missile Plant	2.60	Rock Island Arsenal	-0.1
Cornhusker AAP	2.46	Fort Monmouth	-1.3
Watervliet Arsenal	2.46	Anniston Army Depot	-1.4
Tobyhanna Army Depot	2.34	Picatunny Arsenal	-4.1
New Cumberland Army Depot	2.15	Army Materials & Mechanics Research Center	-6.7
Rock Island Arsenal	1.98	Sierra Army Depot	-9.4
Harry Diamond Lab	1.94	Tobyhanna Army Depot	-14.6
Picatunny Arsenal	1.62	Aberdeen Proving Ground	-14.8
Natick Research & Development Center	1.30	Detroit Arsenal	-21.2
Dugway Proving Ground	1.16	New Cumberland Army Depot	-22.6
Yuma Proving Ground	0.92	Pine Bluff Arsenal	-23.8
White Sands Missile Range	0.91	Seneca Army Depot	-24.0
Redstone Arsenal	0.79	White Sands Missile Range	-26.5
Fort Monmouth	0.76	Newport AAP	-35.0
Aberdeen Proving Ground	0.67	Cornhusker AAP	-39.9
Detroit Arsenal	0.63	Kansas AAP	-45.4
Selfridge Area Support Center	0.09	Sunflower AAP	-60.3
Scranton AAP	-	Selfridge Area Support Center	-71.8
Alabama Army Depot	-	Scranton AAP	-
Frankford Arsenal	-	Alabama Army Depot	-
		Frankford Arsenal	-

Table 21

DARCOM

Installation	Electricity Consumption/ Ton of Air Conditioning (1979)	Installation	Percent Deviation Electricity Consumption/ Ton of Air Conditioning (1975-1979)
Holston AAP	3,975.5	Harry Diamond Lab	56.0
Riverbank AAP	1,086.0	Tooele Army Depot	17.4
Underhill Firing Range	871.2	Seneca Army Depot	16.3
Sunflower AAP	575.9	Sierra Army Depot	12.0
Sierra Army Depot	475.6	Cornhusker AAP	7.3
Watervliet Arsenal	417.9	Army Materials & Mechanics Research Center	4.1
Cornhusker AAP	407.7	Watervliet Arsenal	3.5
Tooele Army Depot	351.0	Underhill Firing Range	3.3
Seneca Army Depot	319.9	Longhorn AAP	2.5
New Cumberland Army Depot	290.5	Tobyhanna Army Depot	1.0
Tobyhanna Army Depot	258.2	Letterkenny Army Depot	0.9
Dugway Proving Ground	242.5	Natick Research & Development Center	-8.2
Sacramento Army Depot	229.2	Louisiana AAP	-8.2
Volunteer AAP	223.2	Selfridge Area Support Center	-10.0
Letterkenny Army Depot	214.3	Anniston Army Depot	-14.1
Anniston Army Depot	210.8	Picatinny Arsenal	-19.1
Badger AAP	206.0	Aberdeen Proving Ground	-24.1
Sharpe Army Depot	205.2	New Cumberland Army Depot	-24.3
Selfridge Area Support Center	204.0	Redstone Arsenal	-25.3
Picatinny Arsenal	176.7	Jefferson Proving Ground	-25.8
Louisiana AAP	170.8	Radford AAP	-28.4
Radford AAP	169.8	Fort Monmouth	-28.5
Newport AAP	168.5	Rock Island Arsenal	-28.9
Red River Army Depot	168.4	Michigan Army Missile Plant	-29.8
Michigan Army Missile Plant	154.4	Kansas AAP	-31.0
Lexington-Blue Grass	151.2	Holston AAP	-32.4
Milan AAP	150.9	Sharpe Army Depot	-33.6
Natick Research & Development Center	149.0	White Sands Missile Range	-35.6
Lake City AAP	143.8	Newport AAP	-40.4
Rock Island Arsenal	129.2	Savanna Army Depot	-41.7
Indiana AAP	126.3	Yuma Proving Ground	-42.6
Redstone Arsenal	119.4	Indiana AAP	-42.9
Fort Monmouth	102.6	St. Louis Area Support Ctr.	-43.2
Army Materials & Mechanics Research Center	99.4	Red River Army Depot	-43.8
Detroit Arsenal	91.4	Sacramento Army Depot	-44.1
St. Louis Area Support Ctr.	90.9	Lake City AAP	-48.9
Savanna Army Depot	88.5	Dugway Proving Ground	-50.6
Kansas AAP	81.2	Lexington-Blue Grass	-51.2
Pine Bluff Arsenal	80.6	Lone Star AAP	-55.3
Harry Diamond Lab	64.1	Detroit Arsenal	-57.1
Longhorn AAP	63.6	Pine Bluff Arsenal	-57.7
Yuma Proving Ground	54.4	Badger AAP	-65.7
White Sands Missile Range	52.9	Volunteer AAP	-66.7
Aberdeen Proving Ground	48.6	Riverbank AAP	-86.7
Jefferson Proving Ground	45.1	Iowa AAP	-91.3
Iowa AAP	40.5	Rocky Mountain Arsenal	-
Lone Star AAP	38.8	Frankford Arsenal	-
Rocky Mountain Arsenal	-	Alabama Army Depot	-
Frankford Arsenal	-	Scranton AAP	-
Alabama Army Depot	-	Ravenna AAP	-
Scranton AAP	-	Joliet AAP	-
Ravenna AAP	-	Twin Cities AAP	-
Joliet AAP	-	Sunflower AAP	-
Twin Cities	-	Milan AAP	-

Table 22

DARCOM

Installation	Electricity Consumption/ Resident Population (1979)	Installation	Percent Deviation Electricity Consumption/ Resident Population (1975-1979)
Anniston Army Depot	32,738.9	Louisiana AAP	151.6
Sacramento Army Depot	8,269.3	Savanna Army Depot	134.2
Lake City AAP	7,763.0	Rocky Mountain Arsenal	118.2
Twin Cities AAP	6,049.2	Iowa AAP	103.5
Iowa AAP	5,065.3	Yuma Proving Ground	54.6
Louisiana AAP	4,987.5	New Cumberland Army Depot	48.9
Rocky Mountain Arsenal	4,474.8	Jefferson Proving Ground	48.4
Radford AAP	4,319.7	Watervliet Arsenal	40.4
Army Materials & Mechanics Research Center	3,400.6	Anniston Army Depot	38.7
Letterkenny Army Depot	2,862.5	Letterkenny Army Depot	27.2
Lexington-Blue Grass	2,368.8	White Sands Missile Range	27.2
Watervliet Arsenal	1,868.9	Dugway Proving Ground	18.1
Rock Island Arsenal	1,762.3	Aberdeen Proving Ground	16.2
Red River Army Depot	1,641.6	Sierra Army Depot	16.2
Milan AAP	1,440.6	Cornhusker AAP	15.2
New Cumberland Army Depot	1,124.5	Pine Bluff Arsenal	10.1
Tooele Army Depot	1,057.7	Lake City AAP	7.6
Jefferson Proving Ground	966.9	Rock Island Arsenal	7.3
Tobyhanna Army Depot	875.8	Radford AAP	5.6
Indiana AAP	864.7	Picatinny Arsenal	4.5
Sharpe Army Depot	769.6	Sharpe Army Depot	0.3
Joliet AAP	742.4	Natick Research & Development Ctr.	-2.1
Pine Bluff Arsenal	607.7	Redstone Arsenal	-5.0
Ravenna AAP	580.5	Seneca Army Depot	-10.3
Picatinny Arsenal	500.1	Milan AAP	-11.0
Redstone Arsenal	473.6	Sacramento Army Depot	-11.1
Cornhusker AAP	448.5	Fort Monmouth	-11.8
Savanna Army Depot	424.4	St. Louis Area Support Ctr.	-11.9
Natick Research & Development Center	400.3	Indiana AAP	-20.3
White Sands Missile Range	284.9	Ravenna AAP	-23.1
Yuma Proving Ground	262.5	Red River Army Depot	-28.7
Aberdeen Proving Ground	176.2	Lexington-Blue Grass	-30.2
St. Louis Area Support Ctr.	167.7	Tooele Army Depot	-45.2
Seneca Army Depot	158.0	Army Materials & Mechanics Research Center	-45.9
Dugway Proving Ground	147.2	Tobyhanna Army Depot	-51.4
Sierra Army Depot	112.1	Twin Cities AAP	-54.3
Fort Monmouth	108.2	Selfridge Area Support Ctr.	-74.9
Selfridge Area Support Center	2.4	Joliet AAP	-77.4
Scranton AAP	-	Newport AAP	-
Alabama Army Depot	-	Longhorn AAP	-
Frankford Arsenal	-	Lone Star AAP	-
Badger AAP	-	Michigan Army Missile Plant	-
Volunteer AAP	-	Riverbank AAP	-
Holston AAP	-	Underhill Firing Range	-
Detroit Arsenal	-	Sunflower AAP	-
Harry Diamond Lab	-	Kansas AAP	-
Kansas AAP	-	Scranton AAP	-
Sunflower AAP	-	Harry Diamond Lab	-
Underhill Firing Range	-	Alabama Army Depot	-
Riverbank AAP	-	Detroit Arsenal	-
Michigan Army Missile Plant	-	Holston AAP	-
Lone Star AAP	-	Frankford Arsenal	-
Longhorn AAP	-	Volunteer AAP	-
Newport AAP	-	Badger AAP	-

DARCOM

Installation	Energy Consumption/ Effective Population (1979)	Installation	Percent Deviation Energy Consumption/ Effective Population (1975-1979)
Holston AAP	5,490.2	Harry Diamond Lab	166.0
Badger AAP	4,865.6	Savanna Army Depot	93.1
Radford AAP	4,087.1	Longhorn AAP	92.1
Iowa AAP	2,784.7	Watervliet Arsenal	68.3
Longhorn AAP	2,229.2	Lexington-Blue Grass	52.5
Newport AAP	1,978.1	Iowa AAP	51.2
Joliet AAP	1,616.9	Milan AAP	41.2
Lake City AAP	1,545.8	Lake City AAP	39.2
Sunflower AAP	1,496.6	Indiana AAP	37.3
Rocky Mountain Arsenal	1,346.6	Detroit Arsenal	36.6
Riverbank AAP	1,298.2	Yuma Proving Ground	29.3
Lone Star AAP	1,251.5	Jefferson Proving Ground	16.8
Twin Cities AAP	1,198.0	Radford AAP	12.9
Harry Diamond Lab	1,085.5	Sunflower AAP	11.0
Volunteer AAP	1,083.8	Sharpe Army Depot	10.8
Watervliet Arsenal	1,067.7	Dugway Proving Ground	3.7
Louisiana AAP	1,013.9	Michigan Army Missile Plant	2.2
Michigan Army Missile Plant	931.9	Rocky Mountain Arsenal	1.8
Army Materials & Mechanics Research Center	843.4	Sacramento Army Depot	-0.3
Picatinny Arsenal	745.3	Army Materials & Mechanics Research Center	-0.5
Milan AAP	738.1	Letterkenny Army Depot	-0.9
Kansas AAP	718.7	Natick Research & Development Center	-1.0
Savanna Army Depot	717.1	Rock Island Arsenal	-2.1
Detroit Arsenal	698.1	Anniston Army Depot	-4.4
Ravenna AAP	627.5	Picatinny Arsenal	-5.0
Pine Bluff Arsenal	615.9	Fort Monmouth	-5.5
Lexington-Blue Grass	604.3	Newport AAP	-5.6
Tooele Army Depot	575.6	St. Louis Area Support Center	-6.0
Underhill Firing Range	571.3	Underhill Firing Range	-6.7
Indiana AAP	555.5	Red River Army Depot	-10.2
Anniston Army Depot	538.9	Redstone Arsenal	-10.9
Tobyhanna Army Depot	509.0	Lone Star AAP	-13.4
Letterkenny Army Depot	478.8	Sierra Army Depot	-13.7
Rock Island Arsenal	471.7	Seneca Army Depot	-16.3
Red River Army Depot	464.8	Cornhusker AAP	-17.4
Jefferson Proving Ground	460.3	Aberdeen Proving Ground	-18.8
Cornhusker AAP	451.1	Tobyhanna Army Depot	-21.8
Redstone Arsenal	404.5	Ravenna AAP	-22.5
Sacramento Army Depot	392.1	White Sands Missile Range	-23.1
Natick Research & Development Center	375.6	Louisiana AAP	-23.7
New Cumberland Army Depot	339.4	New Cumberland Army Depot	-24.8
St. Louis Area Support Center	301.3	Tooele Army Depot	-25.0
Seneca Army Depot	253.0	Kansas AAP	-25.2
Dugway Proving Ground	251.2	Riverbank AAP	-28.9
White Sands Missile Range	248.7	Pine Bluff Arsenal	-36.9
Yuma Proving Ground	225.7	Twin Cities AAP	-37.7
Aberdeen Proving Ground	210.4	Holston AAP	-47.5
Sharpe Army Depot	196.7	Badger AAP	-59.4
Sierra Army Depot	182.7	Joliet AAP	-67.6
Fort Monmouth	180.1	Selfridge Area Support Center	-70.9
Selfridge Area Support Center	5.7	Volunteer AAP	-88.1
Scranton AAP	-	Scranton AAP	-
Alabama Army Depot	-	Alabama Army Depot	-
Frankford Arsenal	-	Frankford Arsenal	-

Table 24

DARCOM

Installation	Energy Consumption/ Population Served (1979)	Installation	Percent Deviation Energy Consumption/ Population Served (1975-1979)
Holston AAP	1,829.2	Harry Diamond Lab	165.9
Badger AAP	1,613.2	Longhorn AAP	91.9
Radford AAP	1,421.2	Watervliet Arsenal	77.1
Iowa AAP	990.7	Lexington-Blue Grass	59.7
Joliet AAP	906.5	Indiana AAP	52.8
Longhorn AAP	742.3	Savanna Army Depot	50.2
Newport AAP	656.7	Milan AAP	46.3
Lake City AAP	539.4	Lake City AAP	40.8
Sunflower AAP	497.4	Iowa AAP	36.7
Rocky Mountain Arsenal	490.2	Radford AAP	13.7
Watervliet Arsenal	443.6	Sharpe Army Depot	12.8
Riverbank AAP	432.7	Jefferson Proving Ground	12.6
Twin Cities AAP	422.0	St. Louis Area Support Ctr.	7.1
Lone Star AAP	417.2	Natick Research & Development Ctr.	4.1
Volunteer AAP	363.0	Army Materials & Mechanics Research Center	2.6
Louisiana AAP	362.5	Michigan Army Missile Plant	2.2
Harry Diamond Lab	361.8	Yuma Proving Ground	2.0
Michigan Army Missile Plt.	310.6	Picatinny Arsenal	1.0
Savanna Army Depot	308.1	Detroit Arsenal	0.1
Ravenna AAP	303.1	Sacramento Army Depot	0
Army Materials & Mechanics Research Center	302.1	Letterkenny Army Depot	-1.0
Picatinny Arsenal	296.2	Rock Island Arsenal	-2.4
Milan AAP	275.2	Fort Monmouth	-3.9
Pine Bluff Arsenal	248.2	Anniston Army Depot	-4.6
Kansas AAP	239.8	Newport AAP	-5.8
St. Louis Area Support Ctr.	236.3	Sunflower AAP	-6.5
Detroit Arsenal	232.7	Underhill Firing Range	-6.7
Indiana AAP	230.7	Seneca Army Depot	-9.0
Tooele Army Depot	222.6	Red River Army Depot	-10.3
Lexington-Blue Grass	219.9	Rocky Mountain Arsenal	-11.4
Cornhusker AAP	207.4	Redstone Arsenal	-11.5
Redstone Arsenal	203.0	Dugway Proving Ground	-12.7
Tobyhanna Army Depot	192.0	Lone Star AAP	-13.4
Underhill Firing Range	190.4	Sierra Army Depot	-14.1
Natick Research & Development Ctr.	185.5	Ravenna AAP	-16.8
Anniston Army Depot	180.7	Tobyhanna Army Depot	-16.8
Dugway Proving Ground	179.9	Tooele Army Depot	-21.6
Jefferson Proving Ground	177.9	Kansas AAP	-25.1
Seneca Army Depot	172.9	Cornhusker AAP	-25.4
Red River Army Depot	170.4	Aberdeen Proving Ground	-28.1
Letterkenny Army Depot	170.0	Louisiana AAP	-28.7
Rock Island Arsenal	166.1	Riverbank AAP	-28.8
Yuma Proving Ground	160.8	Aberdeen Proving Ground	-32.7
White Sands Missile Range	139.9	Twin Cities AAP	-37.2
Sierra Army Depot	136.4	Pine Bluff Arsenal	-41.8
Sacramento Army Depot	133.3	White Sands Missile Range	-42.6
New Cumberland Army Depot	125.8	Holston AAP	-47.5
Fort Monmouth	110.2	Joliet AAP	-56.6
Aberdeen Proving Ground	100.5	Badger AAP	-59.6
Sharpe Army Depot	74.9	Selfridge Area Support Ctr.	-71.1
Selfridge Area Support Ctr.	5.6	Volunteer AAP	-88.1
Scranton AAP	-	Scranton AAP	-
Alabama Army Depot	-	Alabama Army Depot	-
Frankford Arsenal	-	Frankford Arsenal	-

Table 25

FORSCOM

Installation	Electricity Consumption/ Gross Square Foot (1979)	Installation	Percent Deviation Electricity Consumption/ Gross Square Foot (1975-1979)
Fort Meade	269,227	Fort Riley	51.0
Fort Bragg	130,931	Fort Polk	44.8
Fort Campbell	124,082	Fort Meade	34.0
Yakima Firing Center	121,093	Fort Devens	25.4
Fort Sam Houston	120,609	Vancouver Barracks	23.1
Fort Stewart	119,123	Fort Indiantown Gap	20.9
Fort Hood	104,493	Fort Stewart	20.1
Fort Riley	101,702	Yakima Firing Center	19.2
Fort Polk	97,256	Fort Campbell	17.9
Oakdale Support Center	96,700	Presidio of San Francisco	15.6
Presidio of San Francisco	89,312	Fort McPherson	6.6
Fort Lawton	69,527	Fort Sheridan	5.6
Fort Carson	69,321	Fort Ord	4.9
Fort Ord	69,295	Fort Bragg	3.9
Fort Sheridan	68,530	Fort Sam Houston	2.6
Fort Lewis	68,309	Oakdale Support Center	-9.8
Fort Devens	62,104	Fort Carson	-11.0
Fort Drum	51,187	Fort Lawton	-12.9
Fort McPherson	44,782	Fort Hood	-14.9
Fort Indiantown Gap	35,939	Fort McCoy	-17.8
Fort Greely	26,128	Fort Lewis	-19.2
Vancouver Barracks	21,907	Fort Richardson	-20.0
Fort McCoy	19,232	Fort Greely	-43.7
Fort Richardson	6,377	Fort Drum	-55.9
Fort Wainwright	394	Fort Wainwright	-85.6

Table 26

FORSCOM

Installation	Thermal Energy Consumption/ Gross Square Foot (1979)	Installation	Percent Deviation Thermal Energy Consumpt./ Gross Square Foot (1975-1979)
Fort Wainwright	287,724	Presidio of San Francisco	20.4
Fort Greely	248,555	Fort McPherson	11.0
Fort Richardson	188,892	Fort Devens	9.1
Oakdale Support Center	157,776	Fort Stewart	1.7
Fort Carson	128,739	Fort Sheridan	-3.3
Fort Devens	126,090	Fort Ord	-3.3
Fort Sheridan	121,832	Oakdale Support Center	-5.9
Fort Bragg	120,860	Fort Riley	-8.0
Yakima Firing Center	116,347	Fort Indiantown Gap	-9.8
Presidio of San Francisco	113,670	Fort Greely	-10.0
Fort Riley	110,178	Fort Lewis	-12.3
Fort Campbell	110,035	Fort Campbell	-14.5
Fort Meade	104,699	Fort Sam Houston	-18.0
Fort Lewis	102,464	Fort Bragg	-18.3
Fort Ord	91,857	Fort Meade	-18.5
Fort Hood	82,102	Yakima Firing Center	-20.4
Fort Drum	73,660	Fort Hood	-21.5
Fort Stewart	73,011	Fort Richardson	-24.4
Fort Polk	59,608	Fort Carson	-25.8
Fort Sam Houston	54,187	Fort Wainwright	-27.6
Fort Indiantown Gap	47,640	Fort Polk	-35.8
Fort McPherson	41,337	Fort McCoy	-41.8
Fort McCoy	40,868	Vancouver Barracks	-43.4
Vancouver Barracks	35,743	Fort Drum	-43.7
Fort Lawton	25,716	Fort Lawton	-59.0

Table 27

FORSKOM

Installation	Energy Consumption/ Gross Square Foot (1979)	Installation	Percent Deviation Energy Consumption/ Gross Square Foot (1975-1979)
Fort Meade	373,926	Presidio of San Francisco	18.3
Fort Wainwright	288,118	Fort Devens	14.0
Fort Greely	274,683	Fort Meade	13.5
Oakdale Support Center	254,476	Fort Riley	13.3
Fort Bragg	251,792	Fort Stewart	12.4
Yakima Firing Center	237,440	Fort McPherson	8.7
Fort Campbell	234,117	Fort Indiantown Gap	1.2
Fort Riley	211,880	Fort Campbell	0.1
Presidio of San Francisco	202,982	Fort Ord	0
Fort Carson	198,062	Fort Sheridan	-0.3
Fort Richardson	195,269	Fort Polk	-1.9
Fort Stewart	192,135	Yakima Firing Center	-4.2
Fort Sheridan	190,363	Fort Sam Houston	-4.8
Fort Devens	188,194	Oakdale Support Center	-7.4
Fort Hood	186,596	Fort Bragg	-8.1
Fort Sam Houston	174,796	Fort Greely	-14.8
Fort Lewis	170,773	Fort Lewis	-15.2
Fort Ord	161,152	Fort Hood	-17.9
Fort Polk	156,864	Fort Carson	-21.2
Fort Drum	124,848	Fort Richardson	-24.3
Fort Lawton	95,243	Fort Wainwright	-28.0
Fort McPherson	86,120	Vancouver Barracks	-28.7
Fort Indiantown Gap	83,579	Fort Lawton	-33.2
Fort McCoy	60,100	Fort McCoy	-35.8
Vancouver Barracks	57,650	Fort Drum	-49.4

Table 28

FORSCOM

Installation Real Property Inventory (GSF)/
Effective Population Installation Percent Deviation
Real Property Inventory (GSF)/
Effective Population
(1975-1979)

Vancouver Barracks	7.39	Fort Sheridan	117.3
Fort McCoy	3.65	Fort Drum	86.6
Fort McPherson	3.08	Fort Polk	71.6
Fort Indiantown Gap	2.42	Fort McCoy	67.2
Fort Lawton	2.33	Fort Indiantown Gap	50.9
Yakima Firing Center	1.59	Fort Lewis	40.3
Fort Sheridan	1.29	Fort Lawton	36.6
Oakdale Support Center	1.16	Fort Carson	30.3
Fort Drum	1.09	Fort McPherson	24.3
Presidio of San Francisco	0.90	Fort Riley	22.6
Fort Wainwright	0.82	Fort Hood	17.3
Fort Greely	0.81	Fort Ord	11.3
Fort Lewis	0.78	Fort Campbell	10.3
Fort Polk	0.72	Fort Bragg	9.0
Fort Riley	0.71	Fort Stewart	4.0
Fort Ord	0.64	Presidio of San Francisco	-1.4
Fort Devens	0.64	Oakdale Support Center	-2.7
Fort Richardson	0.63	Fort Meade	-4.4
Fort Bragg	0.62	Fort Wainwright	-11.4
Fort Sam Houston	0.61	Fort Greely	-12.3
Fort Carson	0.55	Fort Devens	-17.1
Fort Campbell	0.48	Fort Richardson	-18.5
Fort Hood	0.46	Vancouver Barracks	-20.9
Fort Stewart	0.44	Fort Sam Houston	-26.8
Fort Meade	0.41	Yakima Firing Center	-46.4

Table 29

FORSCOM

Installation	Electricity Consumption/ Ton of Air Conditioning (1979)	Installation	Percent Deviation Electricity Consumption/ Ton of Air Conditioning (1975-1979)
Fort Lewis	1,084.3	Fort Indiantown Gap	25.5
Fort Lawton	929.7	Fort McPherson	5.5
Fort Ord	775.1	Fort Riley	4.2
Fort Drum	640.3	Fort Stewart	3.7
Fort Meade	313.8	Presidio of San Francisco	-3.3
Fort Indiantown Gap	224.4	Fort Lawton	-7.5
Fort Devens	216.2	Oakdale Support Center	-11.9
Presidio of San Francisco	214.9	Fort Polk	-13.2
Fort Richardson	200.1	Fort Meade	-13.9
Fort McCoy	198.4	Fort Bragg	-14.1
Fort Carson	169.2	Fort Sam Houston	-16.8
Fort Bragg	141.6	Fort Ord	-18.5
Fort Sheridan	125.8	Fort Devens	-24.0
Oakdale Support Center	120.2	Fort Hood	-25.0
Fort Riley	118.7	Fort Carson	-25.5
Fort Campbell	104.7	Fort Drum	-25.9
Fort McPherson	95.9	Fort Richardson	-30.7
Fort Stewart	81.1	Fort Sheridan	-34.4
Fort Sam Houston	79.0	Fort Campbell	-49.1
Fort Hood	72.6	Fort Wainwright	-61.6
Fort Polk	58.8	Fort McCoy	-68.1
Fort Wainwright	20.2	Fort Lewis	-73.2
Fort Greely	-	Fort Greely	-
Vancouver Barracks	-	Vancouver Barracks	-
Yakima Firing Center	-	Yakima Firing Center	-

Table 30

FORSCOM

Installation	Electricity Consumption/ Resident Population (1979)	Installation	Percent Deviation Electricity Consumption/ Resident Population (1975-1979)
Fort McPherson	469.3	Fort Sheridan	167.6
Yakima Firing Center	314.8	Fort Polk	157.7
Oakdale Support Center	204.4	Fort Indiantown Gap	125.7
Fort Lawton	168.2	Fort Riley	86.8
Vancouver Barracks	167.6	Fort McCoy	59.8
Fort Meade	166.7	Fort Meade	44.5
Fort Indiantown Gap	142.6	Fort Lewis	35.8
Fort Sheridan	134.3	Fort Stewart	31.7
Fort McCoy	104.4	Fort Campbell	29.0
Presidio of San Francisco	101.3	Fort McPherson	28.8
Fort Sam Houston	97.6	Fort Ord	22.2
Fort Bragg	87.5	Fort Lawton	19.3
Fort Polk	82.2	Fort Devens	15.9
Fort Riley	81.9	Fort Bragg	13.9
Fort Drum	69.9	Fort Carson	8.7
Fort Lewis	66.5	Presidio of San Francisco	8.3
Fort Stewart	65.1	Fort Hood	-0.5
Fort Campbell	62.9	Yakima Firing Center	-8.5
Fort Hood	58.0	Fort Drum	-8.9
Fort Carson	53.2	Oakdale Support Center	-23.7
Fort Ord	49.7	Fort Richardson	-27.4
Fort Devens	47.7	Fort Sam Houston	-29.7
Fort Greely	24.8	Vancouver Barracks	-34.3
Fort Richardson	5.0	Fort Greely	-45.1
Fort Wainwright	0.4	Fort Wainwright	-86.1

Table 31

FORSCOM

Installation	Energy Consumption/ Effective Population (1979)	Installation	Percent Deviation Energy Consumption/ Effective Population (1975-1979)
Vancouver Barracks	426.3	Fort Sheridan	116.8
Yakima Firing Center	377.5	Fort Polk	68.2
Oakdale Support Center	294.0	Fort Indiantown Gap	52.7
Fort McPherson	265.3	Fort Riley	38.9
Fort Sheridan	245.1	Fort McPherson	35.1
Fort Wainwright	235.4	Fort Lewis	19.0
Fort Lawton	221.8	Fort Stewart	16.9
Fort Greely	221.6	Presidio of San Francisco	16.6
Fort McCoy	219.3	Fort Ord	11.4
Fort Indiantown Gap	202.5	Fort Campbell	10.4
Presidio of San Francisco	183.2	Fort Meade	8.5
Fort Bragg	155.1	Fort McCoy	7.4
Fort Meade	151.9	Fort Carson	2.7
Fort Riley	150.2	Fort Bragg	0.2
Fort Drum	135.8	Fort Hood	-3.7
Fort Lewis	133.9	Fort Drum	-5.6
Fort Richardson	122.2	Fort Devens	-5.6
Fort Devens	121.2	Fort Lawton	-8.6
Fort Polk	112.4	Oakdale Support Center	-10.0
Fort Campbell	112.1	Fort Greely	-25.3
Fort Carson	109.6	Fort Sam Houston	-30.3
Fort Sam Houston	107.1	Fort Wainwright	-36.2
Fort Ord	102.4	Fort Richardson	-38.3
Fort Hood	86.1	Vancouver Barracks	-43.6
Fort Stewart	85.3	Yakima Firing Center	-48.6

Table 32

FORSCOM

Installation	Energy Consumption/ Population Served (1979)	Installation	Percent Deviation Energy Consumption/ Population Served (1975-1979)
Vancouver Barracks	399.5	Fort Sheridan	88.7
Yakima Firing Center	212.4	Fort Polk	60.0
Fort Lawton	206.5	Fort Riley	37.2
Fort Wainwright	189.5	Fort McPherson	36.0
Fort Greely	170.3	Fort Indiantown Gap	27.8
Oakdale Support Center	154.3	Presidio of San Francisco	23.2
Fort Sheridan	145.4	Fort Campbell	11.8
Fort Bragg	134.1	Fort Stewart	9.5
Fort McCoy	132.4	Fort Carson	8.7
Presidio of San Francisco	130.2	Fort Ord	3.9
Fort Riley	121.0	Fort Bragg	-0.5
Fort Indiantown Gap	113.8	Fort Meade	-2.4
Fort McPherson	110.0	Oakdale Support Center	-3.1
Fort Campbell	100.7	Fort Hood	-3.2
Fort Drum	96.4	Fort McCoy	-6.8
Fort Lewis	96.4	Fort Lewis	-8.3
Fort Devens	91.4	Fort Lawton	-8.7
Fort Meade	90.0	Vancouver Barracks	-9.7
Fort Richardson	87.1	Fort Drum	-17.0
Fort Polk	86.1	Fort Devens	-19.5
Fort Ord	83.4	Fort Sam Houston	-25.8
Fort Sam Houston	72.1	Fort Greely	-36.1
Fort Carson	70.4	Fort Wainwright	-44.3
Fort Hood	64.4	Fort Richardson	-46.4
Fort Stewart	62.0	Yakima Firing Center	-63.8

Table 33

MAJOR COMMAND, FIFTY UNITED STATES,
AND ARMY-WIDE DATA

In this section are presented summary data in the form of tables and graphs for each Major Command, the fifty United States, and Army-Wide. The tables include all data elements for FY 1975 to FY 1979, except for Army-wide population data and Real Property Inventory categories for each Major Command and the United States. The graphs depict percentage deviations from the base year for such data elements as: Total Energy Consumption, Thermal Energy Consumption, Electrical Energy Consumption, Active Real Property Inventory, BTU/GSF, Installed Air Conditioning Capacity, and Effective Population.

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - ARMY WIDE

UNITS/FY	75	76	77	78	79
1 Energy Consumption & PD	215,248,000	201,430,000 (-6.4)	207,470,000 (-3.6)	207,443,000 (-3.6)	203,279,000 (-5.4)
2 Thermal En Cons & PD	133,259,000	120,288,000 (-9.7)	123,474,000 (-7.3)	121,545,000 (-8.8)	116,952,000 (-12.2)
3 Electrical En Cons & PD	81,989,000	81,142,000 (-1.0)	83,996,000 (-2.4)	85,898,000 (-2.1)	86,327,000 (-5.3)
4 Resident Population & PD					
5 Non-Resident Population & PD					
6 Population Served** & PD	1,840,326	1,858,114 (1.0)	1,821,787 (-1.0)	1,851,195 (0.6)	1,894,741 (3.0)
7 Effective Population*** & PD					
8 En Consumption/Pop Served & PD	117.0	108.4 (-7.3)	113.9 (-2.6)	112.1 (-4.2)	107.3 (-8.3)
9 En Consumption/Enr Pop & PD					
10 Electric En Consumption/Resident Population					
11 Installed Air Cond Capacity & PD					
12 Elec Energy/Ton of Air Cond & PD	464,902	510,788 (9.9)	556,208 (19.6)	568,776 (22.3)	598,130 (38.7)
13 Real Property Inventory (RPI) & PD	176.4	158.9 (-9.9)	151.0 (-4.4)	151.0 (-4.4)	144.3 (-18.2)
14 RPI/Effective Population	992.825	992.843 (0.0)	992.084 (-0.1)	1,012,794 (2.0)	1,033,405 (4.2)
15 Energy Consumption/GSF & PD	216,803.6	202,882.0 (-6.4)	209,135.4 (-3.5)	204,822.5 (-5.5)	196,708.0 (-9.3)
16 Thermal En Consumption/GSF & PD	134,222.0	121,155.1 (-9.7)	124,459.2 (-7.3)	120,009.6 (-10.6)	113,111.5 (-15.2)
17 Electrical En Consumption/GSF & PD	82,581.5	81,726.9 (-1.0)	84,676.2 (2.5)	84,812.9 (2.3)	83,516.5 (-1.3)
18 RPI by Category					
Training	39,236	38,652	40,015	39,976	41,385
Maintenance & Production	79,037	78,904	80,058	81,245	80,712
Research, Development & Testing	13,281	13,281	12,912	12,753	11,964
Storage	168,240	166,719	39,150	47,868	52,951
Other Covered Storage					
Hospital & Medical					
Administration	24,450	24,712	24,815	26,639	26,477
Bachelor Housing	57,399	62,270	59,447	59,342	60,163
Community Facilities	202,107	200,534	195,613	195,854	200,513
Family Housing	83,124	82,793	85,536	86,875	87,654
Operational Buildings	225,060	224,675	234,107	235,354	247,521
Utility Buildings	11,708	22,125	25,482	22,652	23,071
Other					
Non-Available					
BASE	3,902	3,902	6,174	4,863	4,866

Government Owned, Contractor Operated (GOCO) plants were reported separately from other categories in line 18 above for ARMY WIDE data only and is therefore, shown separately.
 REMARKS: Population data is not available for Army Wide so no entries or correlations are shown for those elements.
 **Population Served is the total Resident & Non-Resident Population
 ***Eff Pop is Resident + 1/3 Non-Resident
 59,721 50,710 56,03

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION Fifty United States-Summary

UNITSIFY	76	78	77	78	77	78	79
1. Energy Consumption & PD	155,206,966	143,720,494	147,365,491	147,013,894	147,013,894	147,013,894	142,829,065
2. Thermal En Cons & PD	94,657,905	83,229,604	84,927,674	82,718,103	82,718,103	82,718,103	78,258,416
3. Electrical En Cons & PD	60,549,061	60,490,890	62,437,817	64,295,791	64,295,791	64,295,791	64,570,649
4. Resident Population & PD	672,548	634,267	672,091	656,508	656,508	656,508	666,940
5. Non-Resident Population & PD	528,053	539,806	529,968	537,701	537,701	537,701	546,881
6. Population Served** & PD	1,200,481	1,193,873	1,202,059	1,194,209	1,194,209	1,194,209	1,213,861
7. Effective Population*** & PD	848,446	834,135	848,747	835,741	835,741	835,741	849,277
8. En Consumption/Pop Served & PD	129.3	120.4	122.6	122.6	122.6	122.6	117.7
9. En Consumption/Pop*** & PD	182.9	172.3	173.6	173.6	173.6	173.6	168.2
10. Electric En Consumption/Resident Population	90.0	92.5	92.9	97.9	97.9	97.9	96.8
11. Installed Air Cond Capacity & PD	435,256	480,469	525,655	543,741	543,741	543,741	573,595
12. Elec Energy/Ton of Air Cond & PD	139.1	125.9	118.8	118.2	118.2	118.2	112.2
13. Real Property Inventory IRRP & PD	662,663	666,790	660,062	666,090	666,090	666,090	678,869
14. RPI/Effective Population	0.78	0.80	0.78	0.80	0.80	0.80	0.80
15. Energy Consumption/GSF & PD	234,217	215,541	223,260	220,712	220,712	220,712	210,393
16. Thermal En Consumption/GSF & PD	142,845	124,821	128,666	124,185	124,185	124,185	113,278
17. Electrical En Consumption/GSF & PD	91,372	90,720	94,594	96,527	96,527	96,527	95,115
18. RPI by Category							
Training							
Maintenance & Production							
Research, Development & Testing							
Storage							
Other Covered Storage							
Hospital & Medical							
Administration							
Bachelor Housing							
Community Facilities							
Family Housing							
Operational Buildings							
Utility Buildings							
Other							

PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population *Eff Pop is Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION

MACOM FORSCOM

UNITS/FY	75	76	77	78	79
1 Energy Consumption & PD	45,581,505	45,594,344	47,290,142	47,756,651	46,813,366
2 Thermal En Cons & PD	26,834,241	26,232,586	26,267,303	25,339,543	24,698,366
3 Electrical En Cons & PD	18,747,264	19,361,758	21,022,839	22,417,108	22,115,000
4 Resident Population & PD	317,645	308,619	317,659	319,249	303,566
5 Non-Resident Population & PD	164,964	172,544	175,229	178,433	196,257
6 Population Served** & PD	482,609	481,163	492,888	497,682	499,823
7 Effective Population*** & PD	372,633	366,134	376,069	378,727	368,985
8 En Consumption Pop Served & PD	94.4	94.8	95.9	96.0	93.7
9 En Consumption Eff Pop & PD	122.3	124.5	125.7	126.1	126.9
10 Electric En Consumption/Resident Population	59.0	62.7	66.2	70.2	72.9
11 Installed Air Co-1 Capacity & PD	109,441	128,393	147,886	159,033	172,941
12 Elec Energy/Ton of Air Cond & PD	171.3	150.8	142.2	141.0	127.9
13 Real Property Inventory (RPI) & PD	218,604	227,427	230,670	231,075	241,370
14 RPI/Effective Population	0.59	0.62	0.61	0.61	0.65
15 Energy Consumption/GSF & PD	208,512	200,479	205,012	206,672	193,949
16 Thermal En Consumption/GSF & PD	122,723	115,345	113,874	109,659	102,326
17 Electrical En Consumption/GSF & PD	85,789	85,134	91,138	97,012	91,623
18 RPI by Category					
Training					
Maintenance & Production					
Research, Development & Testing					
Storage					
Other Covered Storage					
Hospital & Medical					
Administration					
Bachelor Housing					
Community Facilities					
Family Housing					
Operational Buildings					
Utility Buildings					
Other					
Not Available					

**Population Served is the total Resident & Non-Resident Population

***Eff Pop is Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION

MACOM_ACC

UNITS/FY	75	76	77	78	79
1 Energy Consumption & PD	1,695,677	1,666,699	1,722,275	1,630,694	1,757,769
2 Thermal En Cons & PD	888,806	798,991	815,699	723,567	828,516
3 Electrical En Cons & PD	807,871	867,708	906,576	907,127	929,253
4 Resident Population & PD	13,541	12,875	12,183	12,318	17,768
5 Non-Resident Population & PD	6,395	6,542	7,877	7,843	8,076
6 Population Served** & PD	19,936	19,417	20,060	20,161	25,844
7 Effective Population*** & PD	15,673	15,055	14,808	14,932	20,460
8 En Consumption/Pop Served & PD	85.1	85.8	85.9	80.9	68.0
9 En Consumption/EF Pop & PD	108.3	129.7	116.3	109.2	85.9
10 Electric En Consumption/Resident Population	59.7	67.4	74.4	73.6	52.3
11 Installed Air Cond Capacity & PD	6,127	6,451	7,216	7,022	7,477
12 Elec Energy/Ton of Air Cond & PD	131.9	134.5	125.6	129.2	124.3
13 Real Property Inventory (RPI) & PD	9,086	9,204	8,965	8,958	9,201
14 RPI/Effective Population	0.58	1.82	0.61	0.60	0.45
15 Energy Consumption/GSF & PD	186,735	181,084	192,111	182,038	191,041
16 Thermal En Consumption/GSF & PD	97,821	86,809	90,987	80,773	90,046
17 Electrical En Consumption/GSF & PD	88,914	94,275	101,124	101,266	100,995
18 RPI by Category					
Training					
Maintenance & Production					
Research, Development & Testing					
Storage					
Other Covered Storage					
Hospital & Medical Administration					
Bachelor Housing					
Community Facilities					
Family Housing					
Operational Buildings					
Utility Buildings					
Other					
Non Available					

***Eff Pop is Resident + 1/3 Non-Resident

**Population Served is the total Resident & Non-Resident Population

*PD is Percent Deviation from Base Year

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION

MACOM HSC

UNITS/FY	75	76	77	78	79
1 Energy Consumption & PD	3,754,325	3,926,898	4,234,415	4,745,600	4,989,818
2 Thermal En Com & PD	2,215,868	2,171,303	2,212,734	2,414,963	2,509,792
3 Electrical En Com & PD	1,538,457	1,755,595	2,021,681	2,330,637	2,580,026
4 Resident Population & PD	5,149	4,405	3,334	5,203	5,825
5 Non-Resident Population & PD	11,862	12,968	13,781	12,317	11,981
6 Population Serv. & PD	17,011	17,373	17,115	17,520	17,806
7 Effective Population*** & PD	9,104	8,778	7,928	9,308	9,819
8 En Consumption/Pop Served & PD	220.7	226.0	247.4	270.9	280.2
9 En Consumption/En Pop & PD	412.4	449.9	534.1	509.8	508.2
10 Electric En Consumption/Resident Population	298.8	398.5	606.4	447.9	442.9
11 Installed Air Cond Capacity & PD	22,928	18,929	27,111	24,452	24,089
12 Elec Generation of Air Cond & PD	67.1	92.2	74.6	95.3	102.1
13 Real Property Inventory (RPI) & PD	7,542	7,515	7,298	9,390	10,090
14 RPI/Effective Population	0.83	0.86	0.92	1.01	1.03
15 Energy Consumption/GSF & PD	497,789	522,541	580,216	505,389	494,531
16 Thermal En Consumption/GSF & PD	293,804	288,929	303,197	257,185	238,830
17 Electrical En Consumption/GSF & PD	203,985	233,612	277,018	248,204	255,701
18 RPI by Category					
Training					
Maintenance & Production					
Research, Development & Testing					
Storage					
Other Covered Storage					
Hospital & Medical Administration					
Bachelor Housing					
Community Facilities					
Family Housing					
Operational Buildings					
Utility Buildings					
Other					
Not Available					
BASE					
Not Available Separately Included Above					
BASE					

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***En Pop is Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION

MACOM INSCOM

UNITS/FY	75	76	77	78	79	79
1. Energy Consumption & PD	526,612	521,118	511,096	563,868	506,230	(-3.9)
2. Thermal En Cons & PD	227,302	217,042	209,978	269,778	203,462	+10.5
3. Electrical En Cons & PD	299,310	304,076	301,118	294,090	302,768	(-1.2)
4. Resident Population & PD	1,611	1,557	1,427	1,245	1,320	+18.1
5. Non-Resident Population & PD	3,840	3,439	2,977	2,780	3,1	+17.6
6. Population Served** & PD	5,451	4,996	4,394	4,025	4,4	+17.7
7. Effective Population*** & PD	2,891	2,702	2,410	2,172	2,374	+17.9
8. En Consumption/Pop Served & PD	96.6	104.3	116.3	140.1	112.9	(-16.9)
9. En Consumption/Pop & PD	182.2	192.8	212.1	259.6	213.2	(-17.1)
10. Electric En Consumption/Resident Population	185.8	195.3	212.5	236.2	229.4	(-2.5)
11. Installed Air Cond Capacity & PD	5,408	5,387	5,387	5,387	5,387	(-0.4)
12. Elec Energy/Ten of Air Cond & PD	55.3	56.4	55.9	54.6	56.2	(-1.5)
13. Fuel Property Inventory (RPI) & PD	2,015	2,023	2,021	2,021	2,023	(-0.4)
14. RPI/Effective Population	0.70	0.75	0.84	0.93	0.85	(-2.3)
15. Energy Consumption/GSF & PD	261,346	257,597	252,893	279,004	250,237	(-4.3)
16. Thermal En Consumption/GSF & PD	112,805	107,287	103,898	133,487	100,577	(-10.8)
17. Electrical En Consumption/GSF & PD	148,541	150,309	148,995	145,517	149,663	(-0.8)
18. RPI by Category						
Training						
Maintenance & Production						
Research, Development & Testing						
Storage						
Other Connected Storage						
Hospital & Medical Administration						
Bachelor Housing						
Community Facilities						
Family Housing						
Operational Buildings						
Utility Buildings						
Other						
Not Available						
Not Available Separately-Included Above						
BASE						

**Population Served is the total Resident & Non-Resident Population

*PD as Percent Deviation from Base Year

***Eff Pop = Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION U.S. MILITARY ACADEMY, NV MACOM USSA

UNITS/FY	75	76	77	78	79
1 Energy Consumption & PD	1,945,931	1,920,236	2,114,779	1,858,080	1,740,527
2 Thermal En Cons & PD	1,310,625	1,272,525	1,354,875	1,216,925	1,101,400
3 Electrical En Cons & PD	635,506	647,709	759,904	641,155	639,127
4 Resident Population & PD	11,532	11,571	11,600	11,878	11,980
5 Non-Resident Population & PD	3,196	5,487	6,679	3,906	5,367
6 Population Served** & PD	14,728	17,058	18,279	15,784	17,347
7 Effective Population*** & PD	12,532	13,571	15,100	13,180	13,326
8 En Consumption/Pop Served & PD	132.1	112.6	114.81	117.7	106.5
9 En Consumption/EH Pop & PD	154.5	143.3	153.0	141.0	129.5
10 Electric En Consumption/Resident Population	55.1	56.0	65.5	54.0	51.7
11 Installed Air Cond Capacity & PD	713.5	1,207	1,191	6,821	6,922
12 Elec Energy/Ton of Air Cond & PD	10,210	10,318	10,318	10,028	9,586
13 Real Property Inventory (RPI) & PD	81	77	75	76	74
14 RPI/Effective Population	190.591	186,105	204,960	185,289	176,961
15 Energy Consumption/GSF & PD	128,367	123,331	131,312	121,353	113,433
18 Thermal En Consumption/GSF & PD	67,244	62,774	73,643	63,936	59,677
17 Electrical En Consumption/GSF & PD	948	948	948	568	568
Learning	363	363	361	305	316
Maintenance & Production	252	263	10	6	9
Research, Development & Testing	144	144	251	257	216
Storage	403	458	184	157	216
Other Covered Storage	7,531	7,531	458	780	741
Hospital & Medical	1,980	1,980	2,531	2,400	2,295
Administration	3,345	3,345	1,989	1,754	1,754
Bachelor Housing	178	130	130	20	20
Community Facilities	114	114	114	107	107
Family Housing	33	33	33	360	184
Operational Buildings					
Utility Buildings					
Other					

Population Served is the total Resident & Non-Resident Population *EH Pop is Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - MILITARY DIST OF WASH, D.C. - MACOM - WDM

UNITS/FY	76	76	77	78	79
MRTU	1,182,321	1,107,525	1,169,548	1,099,453	1,042,572
MRTU	543,868	443,010	502,906	450,653	417,029
MRTU	638,453	664,515	666,642	648,800	625,543
PEOPLE	5,297	5,296	5,120	5,120	5,455
PEOPLE	27,830	29,360	29,360	29,360	29,360
PEOPLE	33,122	34,654	34,680	34,680	34,815
PEOPLE	14,574	15,081	14,907	14,907	15,242
MRTUCAP	35.7	32.0	33.9	31.9	29.9
MRTUCAP	81.1	73.4	78.5	73.7	68.4
MRTUCAP	120.5	125.5	130.2	126.7	114.7
TONS	9,064	9,166	9,166	9,166	8,115
MRTUCAP	70.4	72.5	72.7	70.8	77.1
KSF	4,982	5,900	5,055	5,120	4,625
BTU/GSF	337,319	187,216	231,365	214,678	225,421
BTU/GSF	1,09,167	75,086	99,487	88,018	90,168
BTU/GSF	128,152	112,630	131,878	126,660	135,253
KSF	400	394	380	380	344
KSF	195	246	290	290	345
KSF	520	512	418	418	266
KSF	93	95	64	64	67
KSF	843	1,607	849	849	929
KSF	1,173	1,153	747	747	982
KSF	857	590	1,404	1,404	788
KSF	588	588	588	588	575
KSF	194	95	95	95	65
KSF	129	220	220	220	246
KSF	Not Available	BASE	BASE	BASE	BASE

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Served** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/EN Pop & PD
- 10 Electric En Consumption/Resident Population
- 11 Insulated Air Cond Capacity & PD
- 12 Elec Energy/Ton of Air Cond & PD
- 13 Real Property Inventory (RPI) & PD
- 14 RPI/Effective Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD

- Training
- Maintenance & Production
- Research, Development & Testing
- Storage
- Other Covered Storage
- Hospital & Medical
- Administration
- Bachelor Housing
- Community Facilities
- Family Housing
- Operational Buildings
- Utility Buildings
- Other

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS Includes Cameron Station, VA., Ft Myer, VA., and Ft McNair, Washington, DC.

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - MTMC - MACOM

UNITS/FY	76	77	78	79	80
1 Energy Consumption & PD	1,494,250	1,306,557	1,246,981	1,251,718	1,181,816
2 Thermal Energy & PD	1,000,925	805,275	737,625	733,800	708,200
3 Electrical En Cons & PD	493,325	501,282	509,356	497,918	473,616
4 Resident Population & PD	1,238	1,176	1,177	1,300	1,241
5 Non-Resident Population & PD	5,688	5,367	4,882	5,021	4,871
6 Population Served** & PD	6,926	6,543	6,059	6,321	6,112
7 Effective Population*** & PD	3,134	2,965	2,804	2,974	2,865
8 En Consumption/Pop Served & PD	215.7	199.7	205.8	198.0	193.4
9 En Consumption/Pop & PD	476.8	460.7	444.7	420.9	412.5
10 Electric En Consumption/Resident Population	398.5	426.3	432.8	383.0	381.6
11 Installed Air Cond Capacity & PD	1,893	2,538	2,096	2,109	2,108
12 Elec Energy/Ton of Air Cond & PD	260.6	197.5	243.0	236.1	224.7
13 Real Property Inventory (RPI) & PD	13,906	11,635	8,807	9,235	9,226
14 Ineffective Population	4.44	3.92	3.14	3.11	3.22
15 Energy Consumption/GSF & PD	107,454	112,295	141,589	135,541	128,096
16 Thermal En Consumption/GSF & PD	71,978	69,211	83,754	81,624	76,761
17 Electrical En Consumption/GSF & PD	35,476	43,084	57,835	53,916	51,335
18 RPI by Category					
Training					
Maintenance & Production					
Research, Development & Testing					
Storage					
Other Covered Storage					
Hospital & Medical					
Administration					
Bachelor Housing					
Community Facilities					
Family Housing					
Operational Buildings					
Utility Buildings					
Other					
Not Available					

PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population *Eff Pop is Resident + 1/2 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - LAB. N.H. MACOM OCE

COLD REGION'S RESEARCH ENG.

UNITS/FY	75	76	77	78	79
1 Energy Consumption & PD	74,604	72,876	65,238	100,102	97,887
2 Thermal En Cons & PD	17,159	15,304	13,010	16,017	13,705
3 Electrical En Cons & PD	57,445	57,572	50,248	84,085	84,182
4 Resident Population & PD	0	0	0	0	0
5 Non-Resident Population & PD	367	269	305	286	287
6 Population Served** & PD	267	269	305	286	287
7 Effective Population*** & PD	89	90	102	95	94
8 En Consumption/Pop Served & PD	279.4	270.9	214.0	350.0	341.1
9 En Consumption/Eff Pop & PD	838.2	809.7	639.8	1,053.7	1,019.6
10 Electric En Consumption/Resident Population	0	0	0	0	0
11 Installed Air Cond Capacity & PD	80	80	75	168	168
12 Elec Energy/Ton of Air Cond & PD	215.1	219.7	669.9	500.5	501.1
13 Real Property Inventory (RPI) & PD	92	113	113	161	161
14 RPI/Effective Population	1.03	1.25	1.11	1.69	1.68
15 Energy Consumption/GSF & PD	810,913	644,920	577,504	621,751	607,994
16 Thermal En Consumption/GSF & PD	166,511	135,434	132,831	99,484	85,124
17 Electrical En Consumption/GSF & PD	644,402	509,486	444,673	522,267	522,869
Training					
Maintenance & Production					
Research, Development & Testing					
Storage					
Other Covered Storage					
Hospital & Medical					
Administration					
Bachelor Hous'g					
Community Facilities					
Family Housing					
Operational B. dings					
Utility Buildings					
Other					

**Population Served as the total Resident & Non-Resident Population
 ***Eff Pop as Resident + 1/3 Non-Resident
 *PD as Percent Deviation from Base Year
 Not Available

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION

MACOM - MSCOM

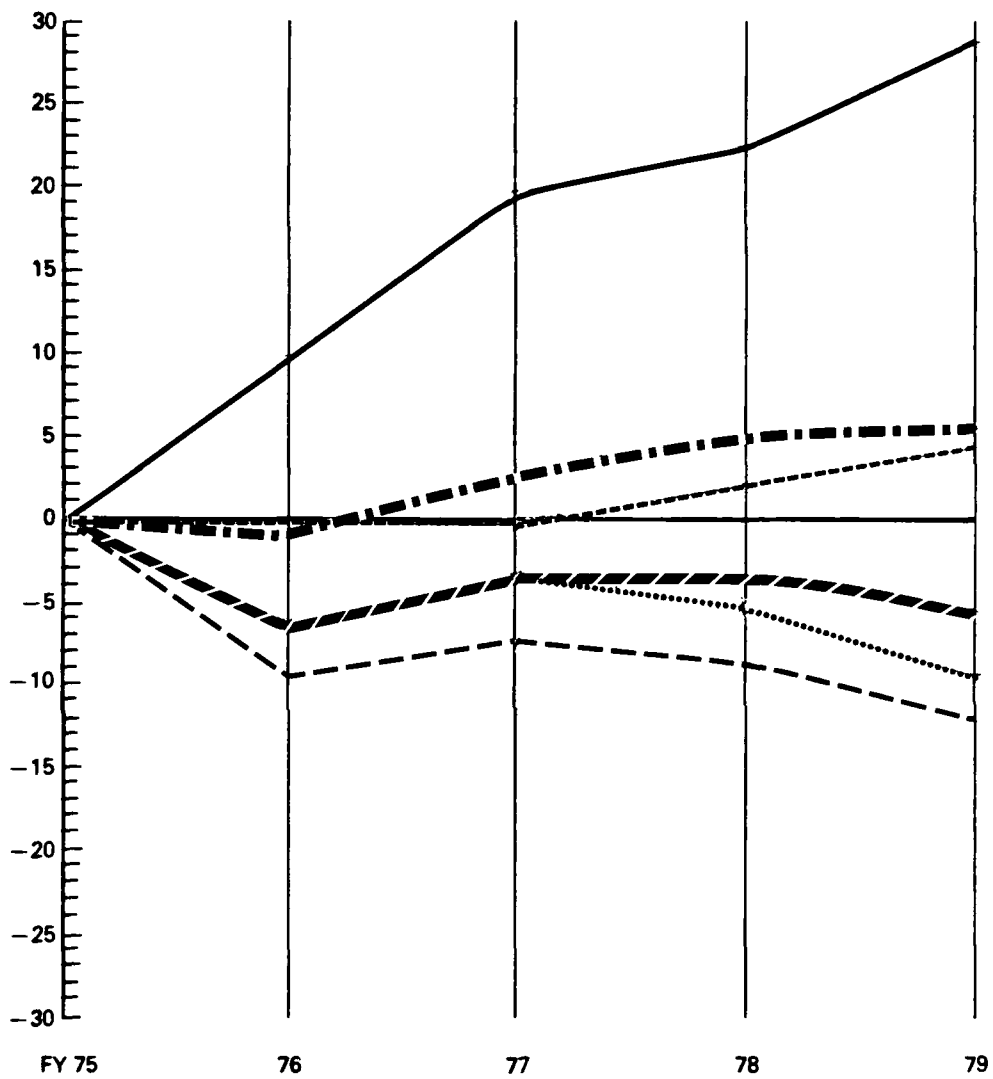
UNITS/FY	76	76	77	78	79
1. Energy Consumption & PD	2,570,900	2,198,475 (-14.5%)	2,282,258 (-11.2%)	2,603,166 (-1.3%)	2,817,203 (-1.3%)
2. Thermal En Cons & PD	333,962	314,139 (-5.9%)	319,926 (-4.2%)	327,826 (-1.8%)	321,900 (-1.8%)
3. Electrical En Cons & PD	2,236,938	1,884,336 (-15.8%)	1,962,332 (-12.3%)	2,275,340 (-1.7%)	2,495,303 (-1.1%)
4. Resident Population & PD	26,202	28,140 (-0.2%)	28,944 (-10.5%)	31,747 (-21.2%)	33,218 (-26.8%)
5. Non-Resident Population & PD	14,483	14,051 (-3.0%)	6,670 (-53.9%)	6,466 (-55.4%)	6,290 (-56.6%)
6. Population Served** & PD	40,685	40,191 (-1.2%)	35,614 (-12.5%)	38,213 (-6.1%)	39,508 (-1.3%)
7. Effective Population*** % PD	31,030	30,823 (-0.7%)	31,188 (0.4%)	33,902 (9.3%)	35,315 (13.8%)
8. En Consumption/Pop Served & PD	63.2	54.7 (-13.4%)	64.1 (1.4%)	68.1 (7.8%)	71.3 (12.8%)
9. En Consumption/Pop & PD	82.9	71.3 (-13.9%)	73.2 (-11.6%)	76.8 (-7.3%)	79.8 (-3.7%)
10. Electric En Consumption/Resident Population	85.4	72.1 (-15.6%)	67.8 (-20.6%)	71.7 (-16.0%)	75.1 (-12.0%)
11. Installed Air Cond Capacity & PD	7,599	9,426 (24.0%)	10,323 (35.8%)	10,523 (26.5%)	10,512 (-38.3%)
12. Elec Energy/Ton of Air Cond & PD	294.4	199.9 (-32.1%)	190.1 (-35.4%)	216.2 (-38.5%)	237.4 (-19.4%)
13. Real Property Inventory (RPI) & PD	17,549	18,725 (6.7%)	18,865 (7.4%)	19,789 (12.8%)	22,848 (30.2%)
14. RPI/Effective Population	0.57	0.61 (7.4%)	0.60 (6.9%)	0.58 (3.2%)	0.65 (13.8%)
15. Energy Consumption/GSF & PD	146,498	117,409 (-19.9%)	121,107 (-17.3%)	131,546 (-10.2%)	123,302 (-13.8%)
16. Thermal En Consumption/GSF & PD	19,030	16,776 (-11.8%)	16,977 (-10.8%)	16,566 (-12.9%)	14,089 (-26.0%)
17. Electrical En Consumption/GSF & PD	127,468	100,632 (-21.1%)	104,130 (-18.3%)	114,980 (9.8%)	109,213 (-4.3%)
18. RPI by Category					
Training					
Maintenance & Production					
Research, Development & Testing					
Storage					
Other Covered Storage					
Hospital & Medical					
Administration					
Bachelor Housing					
Community Facilities					
Family Housing					
Operational Buildings					
Utility Buildings					
Other					
Not Available					
BASE					
Not Available Separately/Included Above					
BASE					

**Population Served is the total Resident & Non-Resident Population

***En Pop is Resident + 1/3 Non-Resident

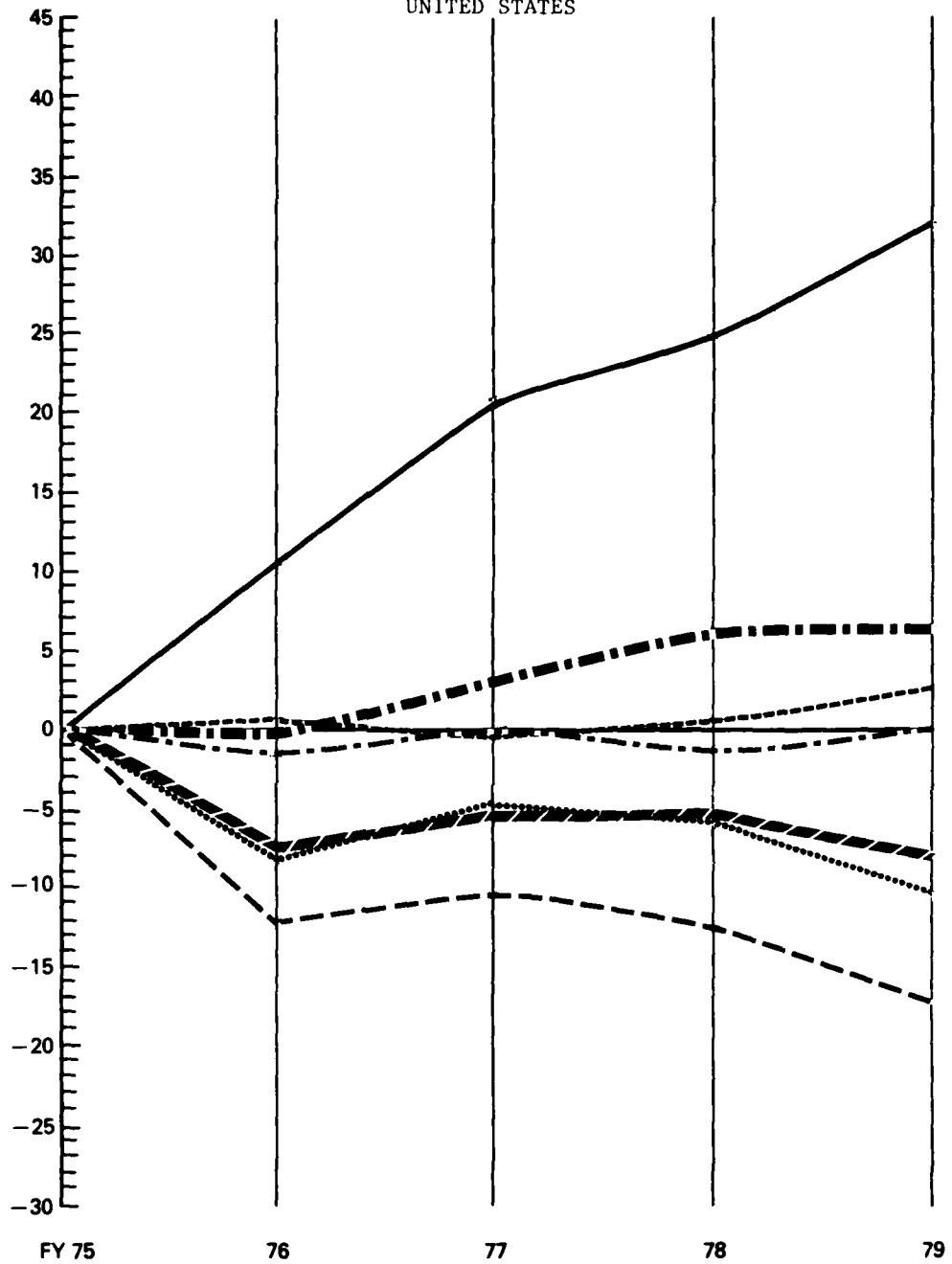
REMARKS

ARMY - WIDE



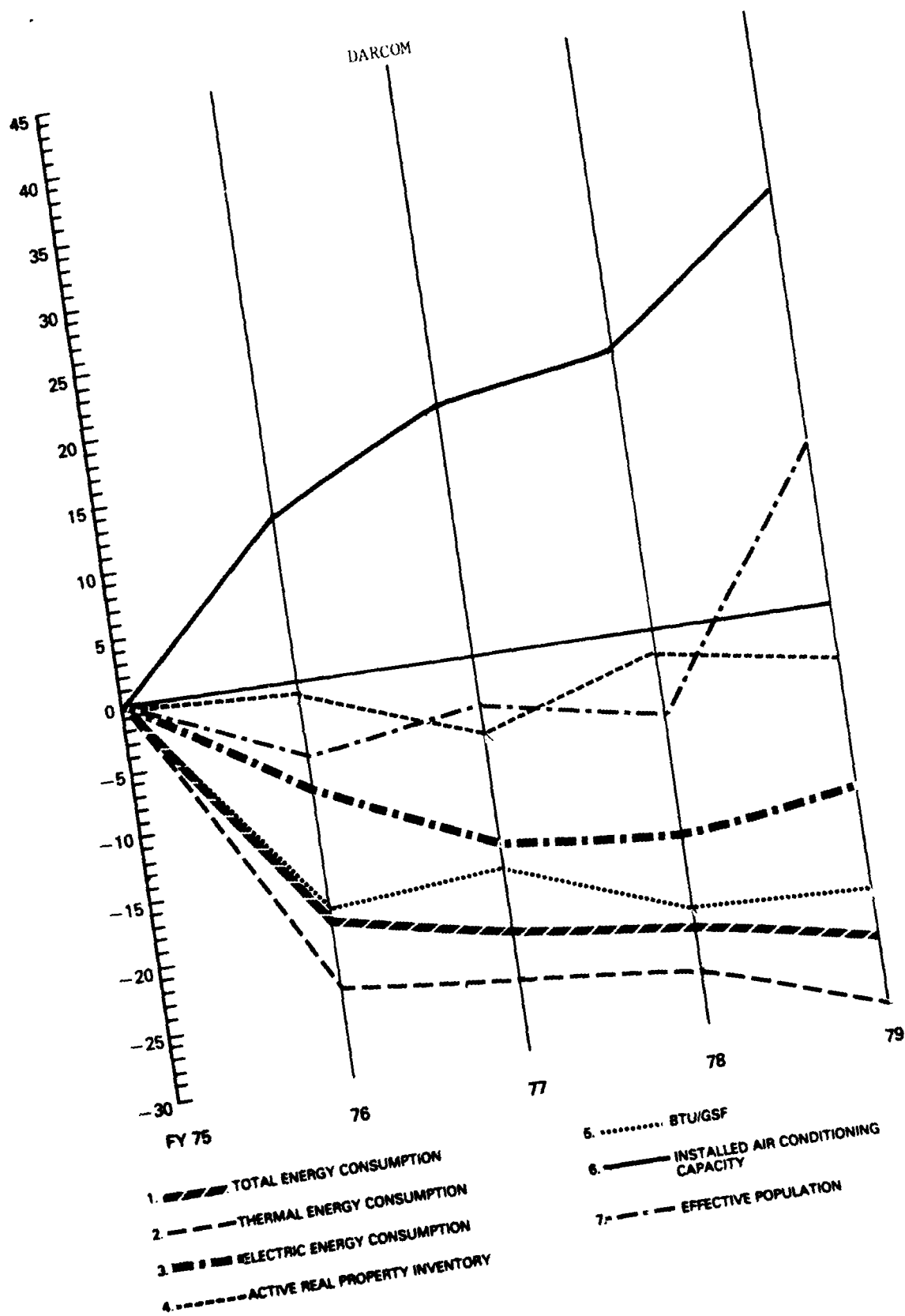
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|--|---|
| <p>1. TOTAL ENERGY CONSUMPTION</p> <p>2. THERMAL ENERGY CONSUMPTION</p> <p>3. ELECTRIC ENERGY CONSUMPTION</p> <p>4. ACTIVE REAL PROPERTY INVENTORY</p> | <p>5. BTU/GSF</p> <p>6. INSTALLED AIR CONDITIONING CAPACITY</p> <p>7. EFFECTIVE POPULATION</p> |
|--|---|

UNITED STATES

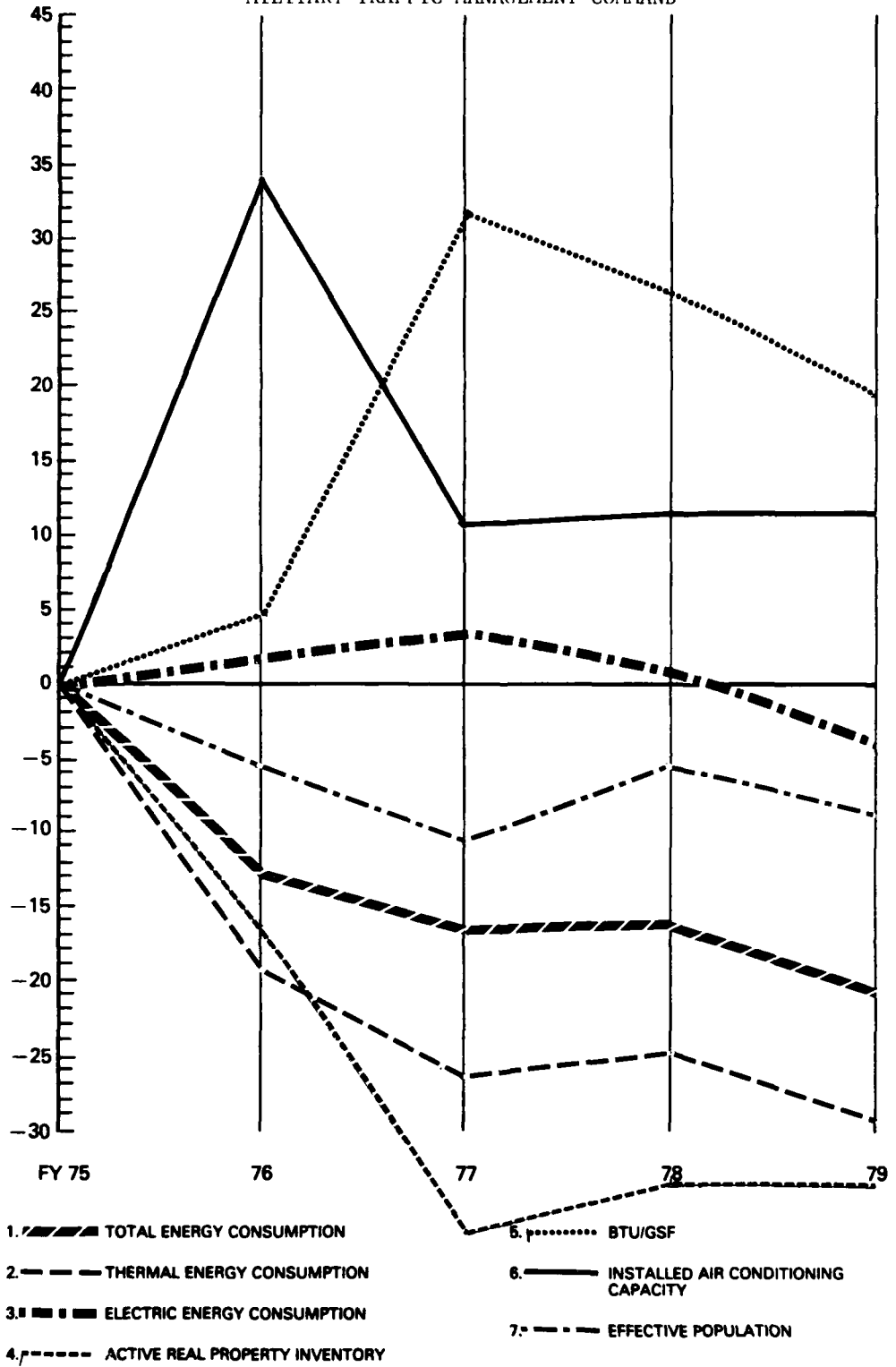


- 1. // // // TOTAL ENERGY CONSUMPTION
- 2. - - - THERMAL ENERGY CONSUMPTION
- 3. ■ ■ ■ ELECTRIC ENERGY CONSUMPTION
- 4. - - - - - ACTIVE REAL PROPERTY INVENTORY

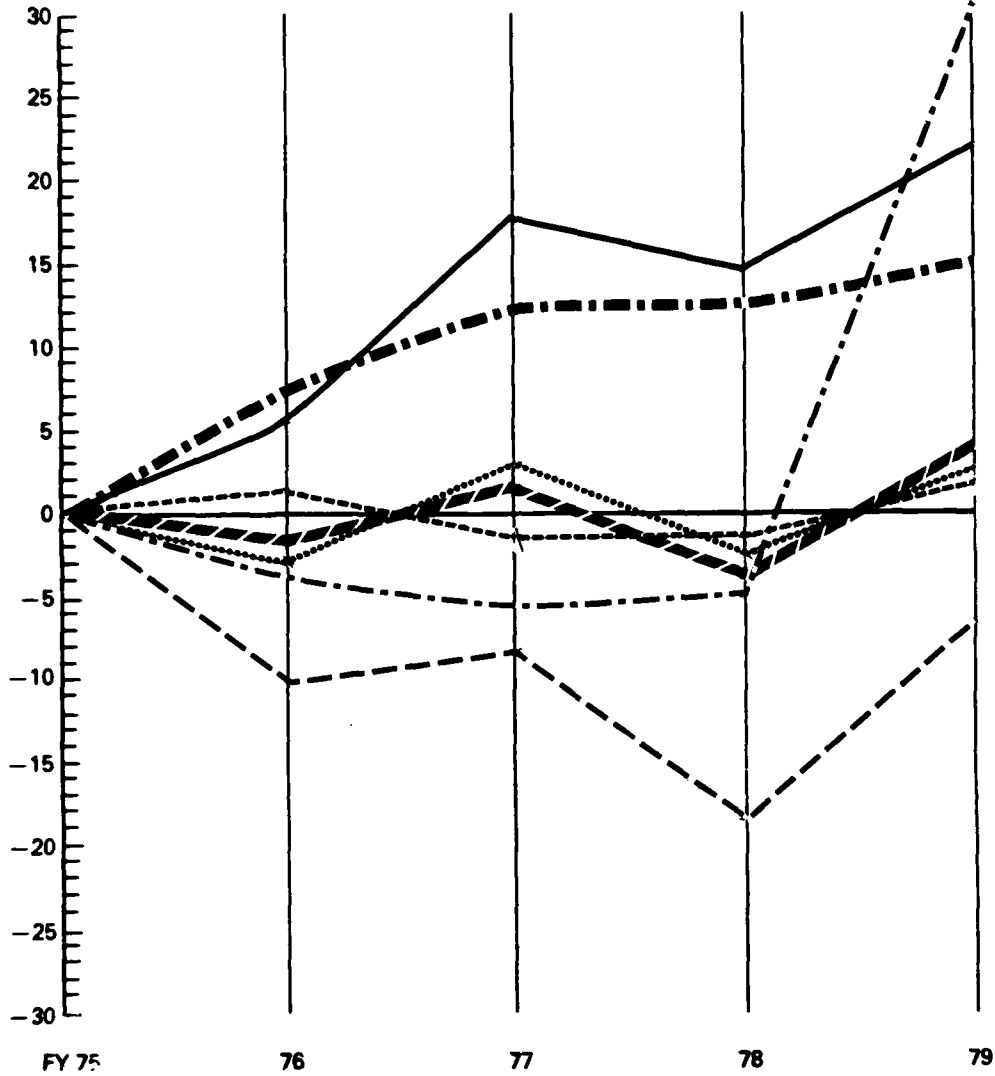
- 5. BTU/GSF
- 6. ——— INSTALLED AIR CONDITIONING CAPACITY
- 7. - - - - - EFFECTIVE POPULATION



MILITARY TRAFFIC MANAGEMENT COMMAND



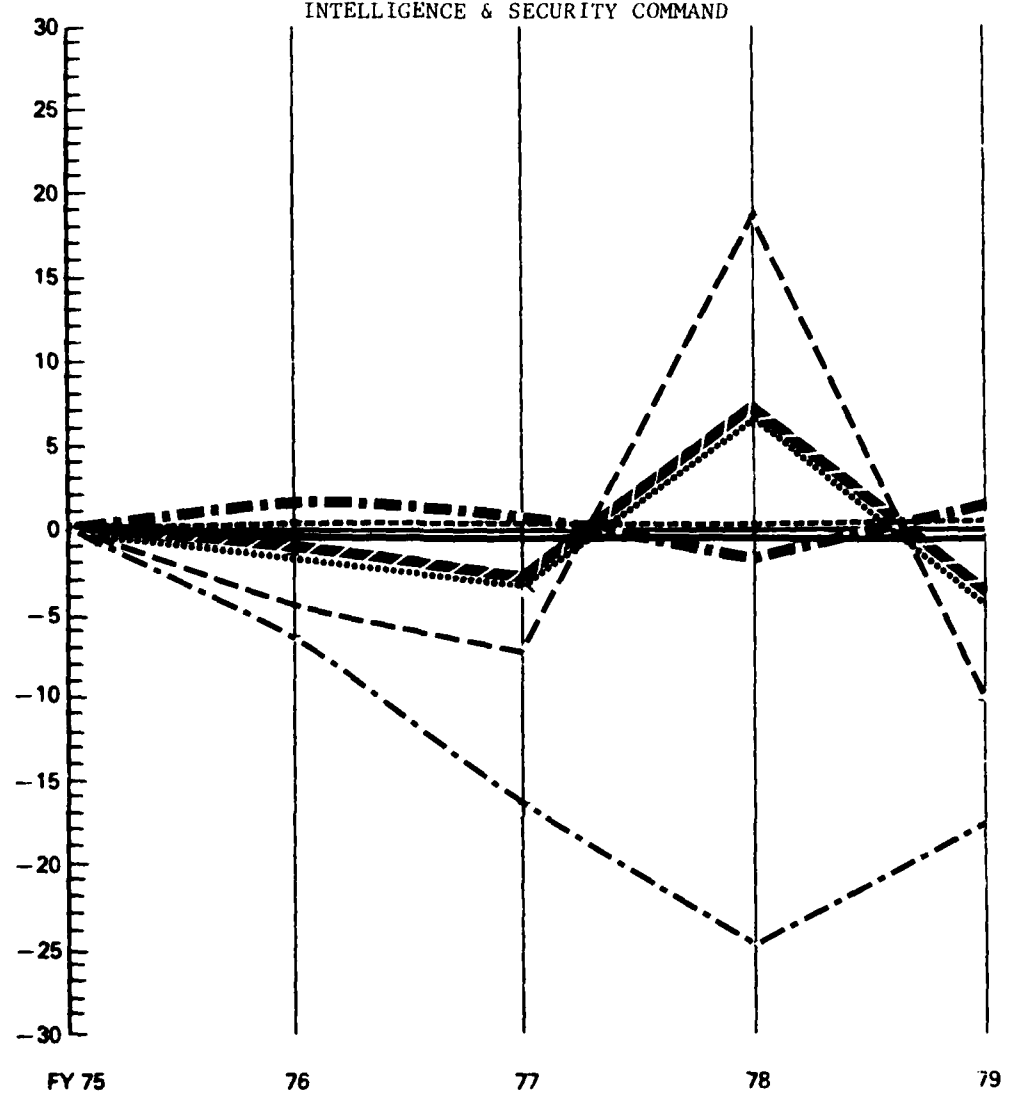
ARMY COMMUNICATIONS COMMAND



- 1. TOTAL ENERGY CONSUMPTION
- 2. THERMAL ENERGY CONSUMPTION
- 3. ELECTRIC ENERGY CONSUMPTION
- 4. ACTIVE REAL PROPERTY INVENTORY

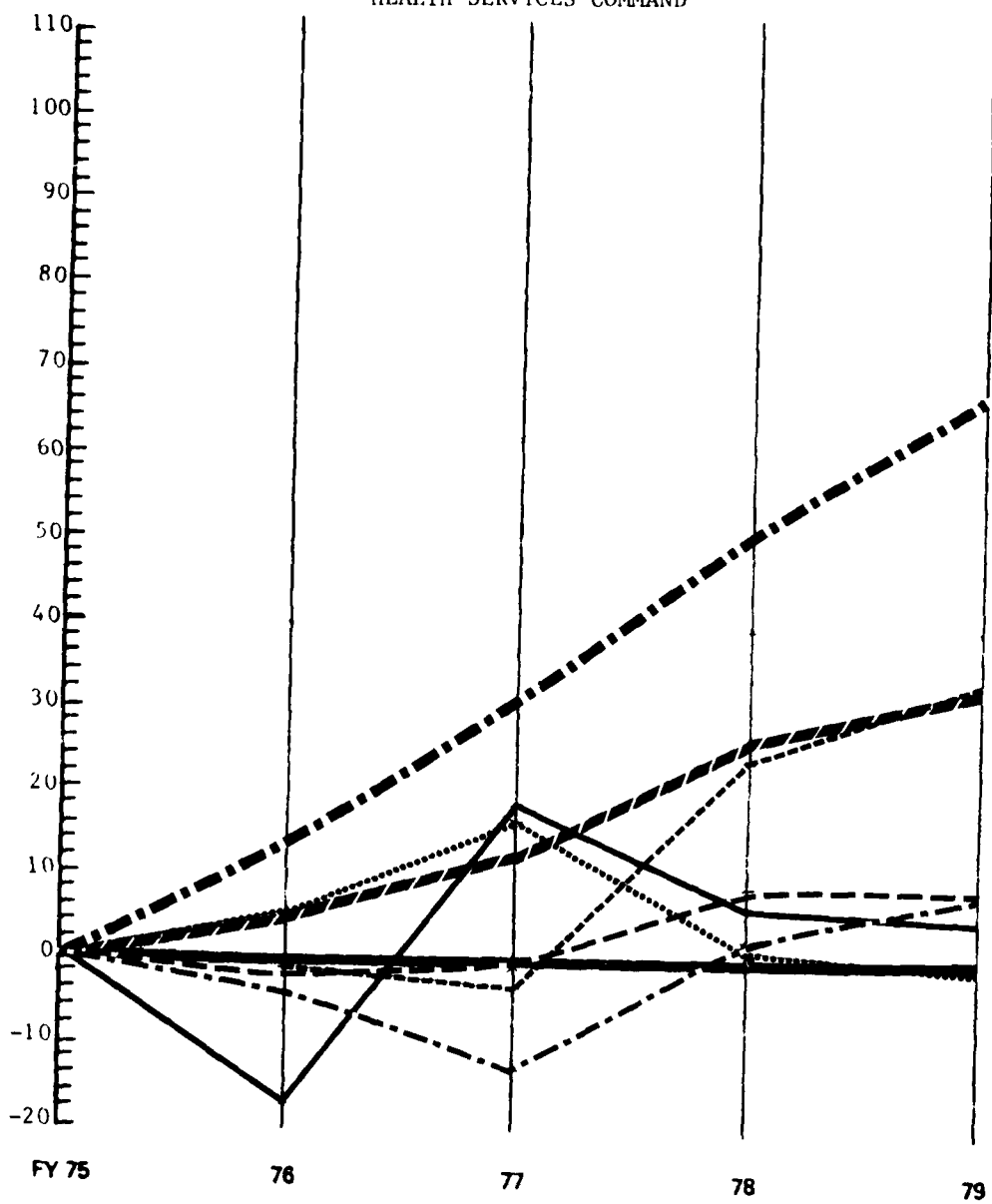
- 5. BTU/GSF
- 6. INSTALLED AIR CONDITIONING CAPACITY
- 7. EFFECTIVE POPULATION

INTELLIGENCE & SECURITY COMMAND



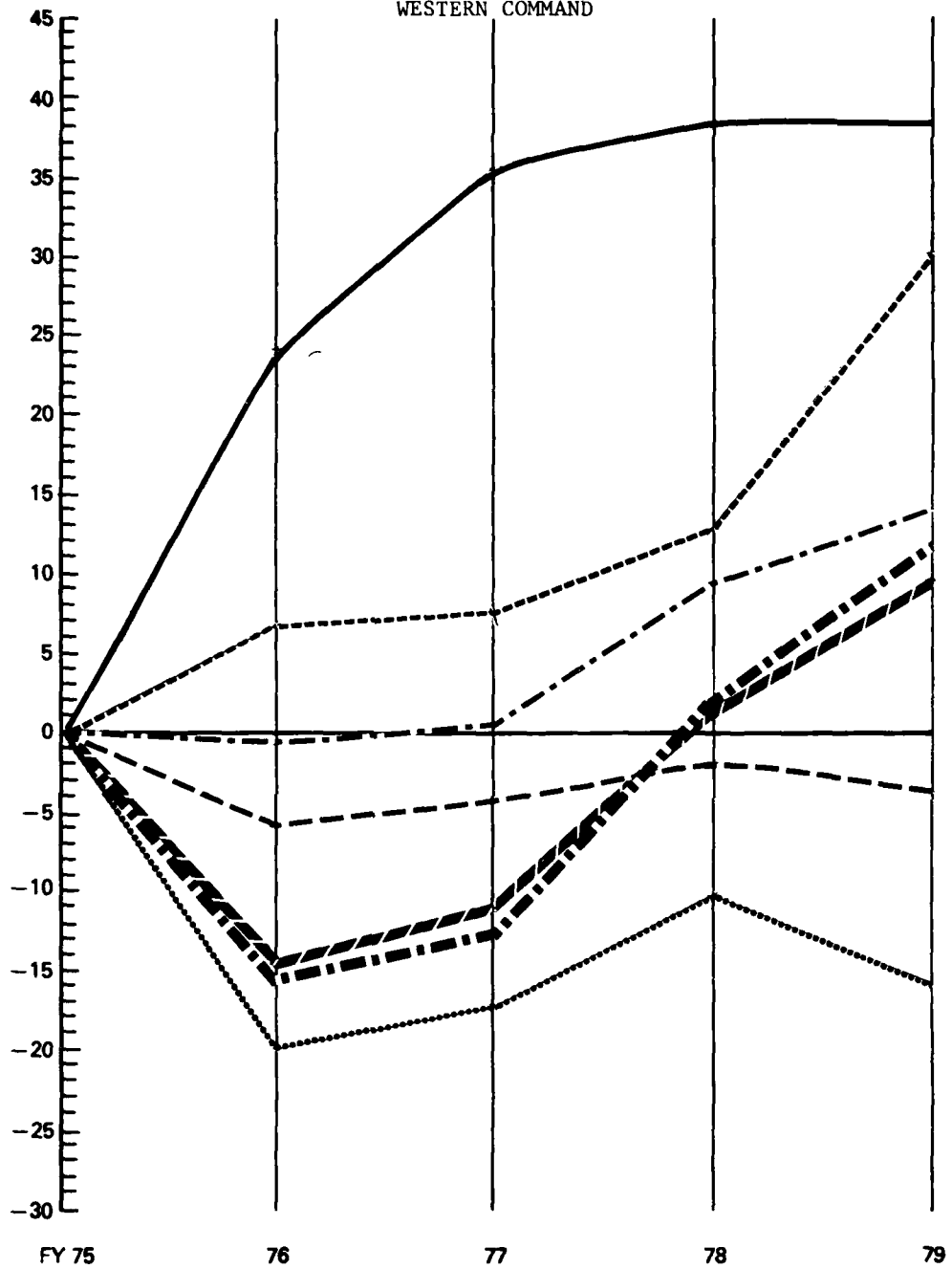
- 1. // // // TOTAL ENERGY CONSUMPTION
- 2. - - - THERMAL ENERGY CONSUMPTION
- 3. ■ ■ ■ ELECTRIC ENERGY CONSUMPTION
- 4. - - - - ACTIVE REAL PROPERTY INVENTORY
- 5. BTU/GSF
- 6. ——— INSTALLED AIR CONDITIONING CAPACITY
- 7. - - - - EFFECTIVE POPULATION

HEALTH SERVICES COMMAND

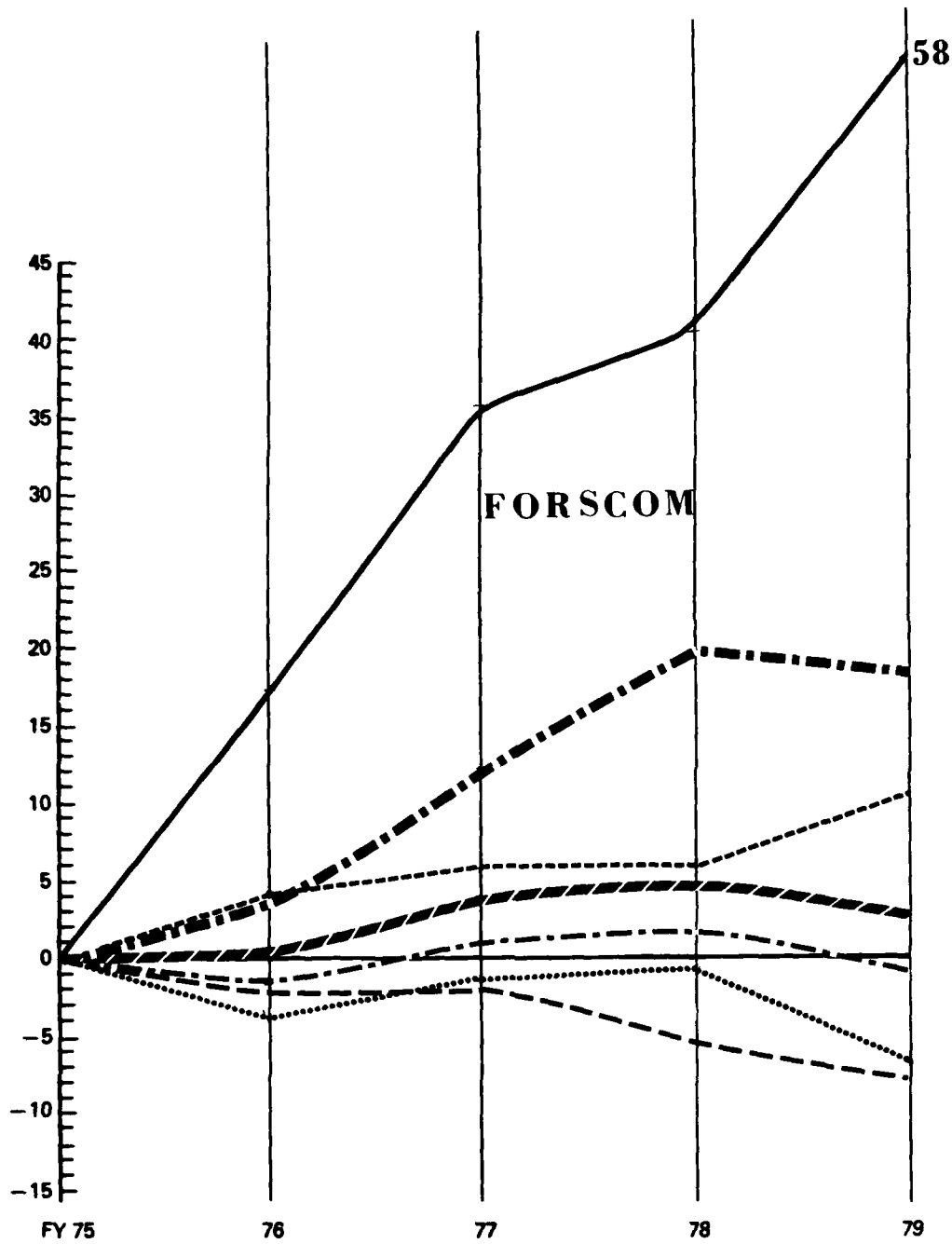


- 1. TOTAL ENERGY CONSUMPTION
- 2. THERMAL ENERGY CONSUMPTION
- 3. ELECTRIC ENERGY CONSUMPTION
- 4. ACTIVE REAL PROPERTY INVENTORY
- 5. BTU/GSF
- 6. INSTALLED AIR CONDITIONING CAPACITY
- 7. EFFECTIVE POPULATION

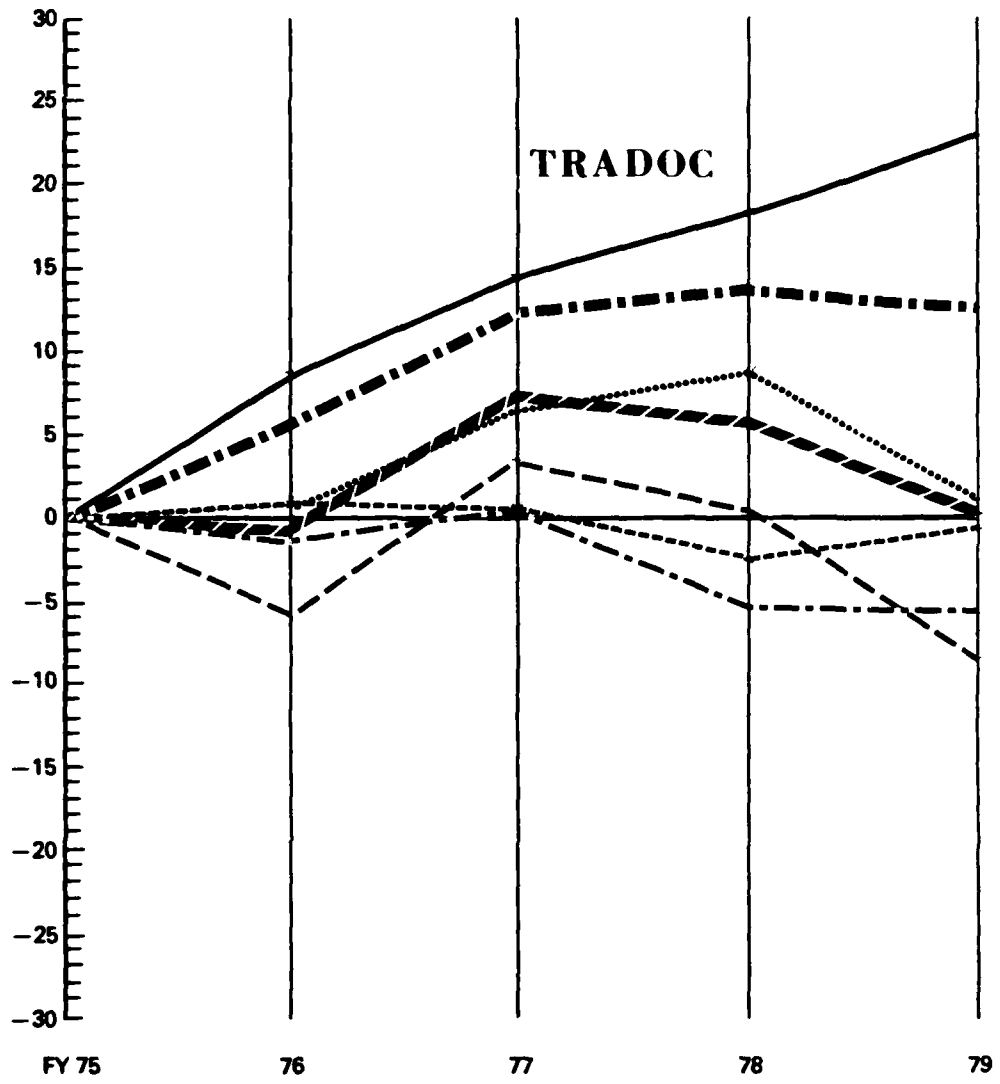
WESTERN COMMAND



- 1. TOTAL ENERGY CONSUMPTION
- 2. THERMAL ENERGY CONSUMPTION
- 3. ELECTRIC ENERGY CONSUMPTION
- 4. ACTIVE REAL PROPERTY INVENTORY
- 5. BTU/GSF
- 6. INSTALLED AIR CONDITIONING CAPACITY
- 7. EFFECTIVE POPULATION

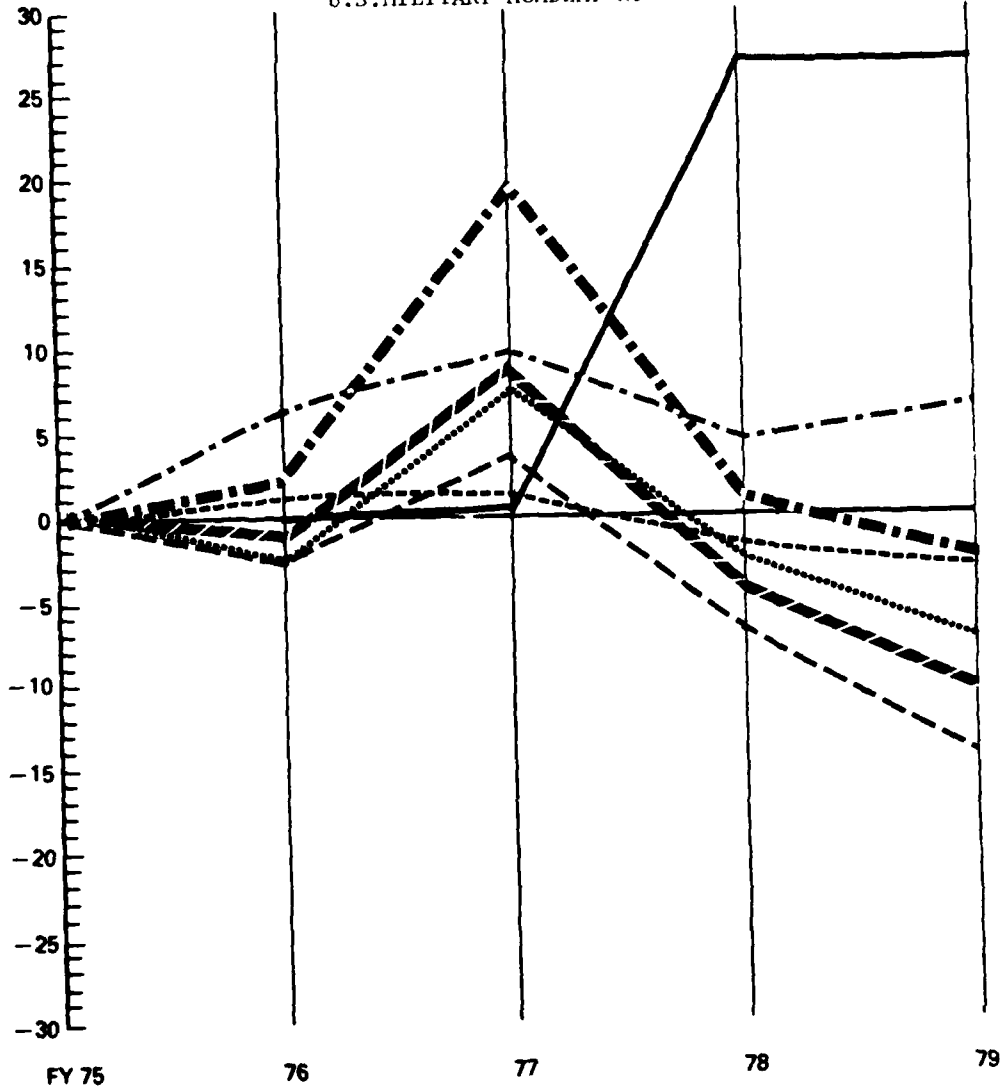


- 1. TOTAL ENERGY CONSUMPTION
- 2. THERMAL ENERGY CONSUMPTION
- 3. ELECTRIC ENERGY CONSUMPTION
- 4. ACTIVE REAL PROPERTY INVENTORY
- 5. BTU/GSF
- 6. INSTALLED AIR CONDITIONING CAPACITY
- 7. EFFECTIVE POPULATION



- 1. TOTAL ENERGY CONSUMPTION
- 2. THERMAL ENERGY CONSUMPTION
- 3. ELECTRIC ENERGY CONSUMPTION
- 4. ACTIVE REAL PROPERTY INVENTORY
- 5. BTU/GSF
- 6. INSTALLED AIR CONDITIONING CAPACITY
- 7. EFFECTIVE POPULATION

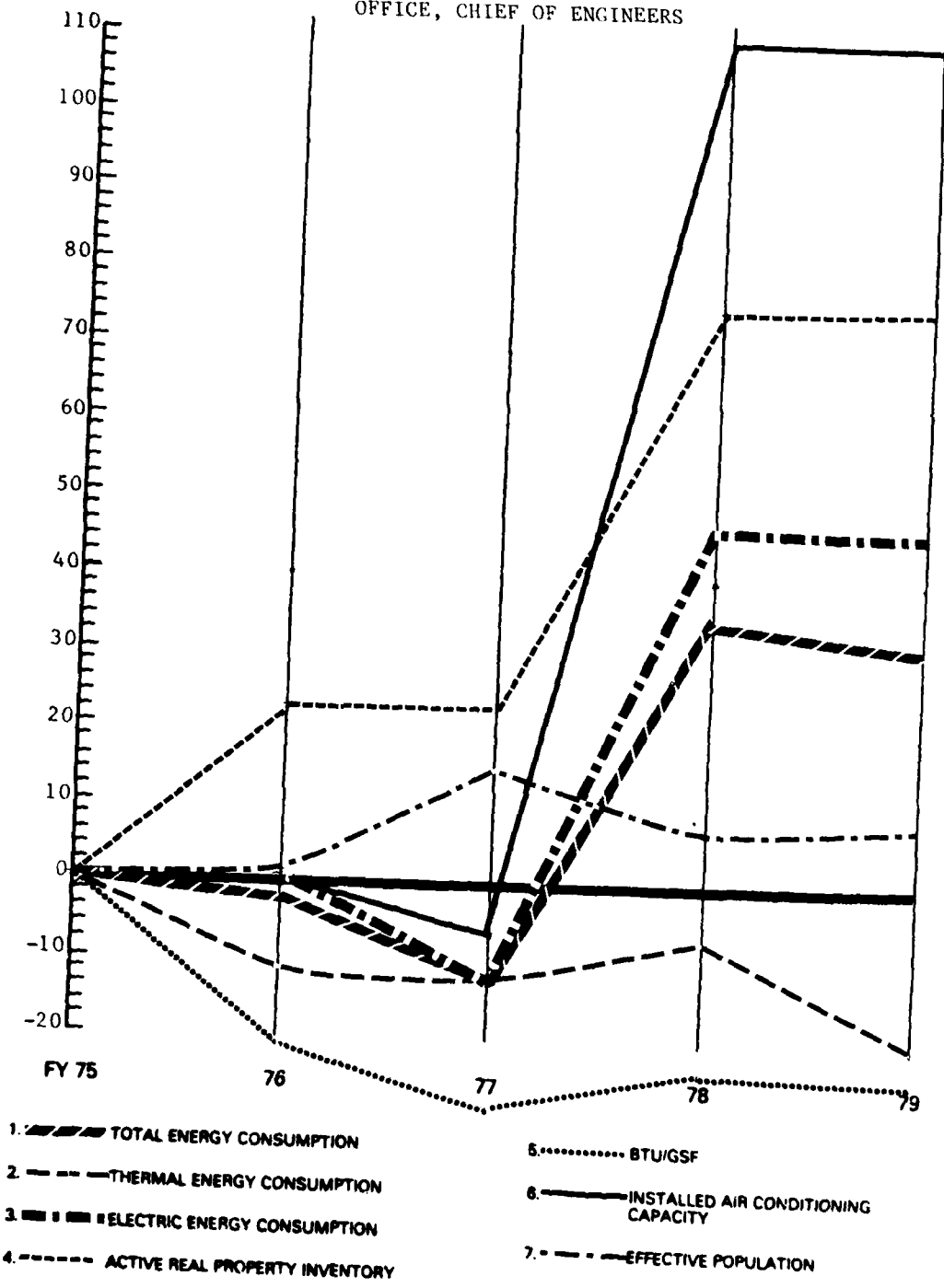
U.S. MILITARY ACADEMY NY



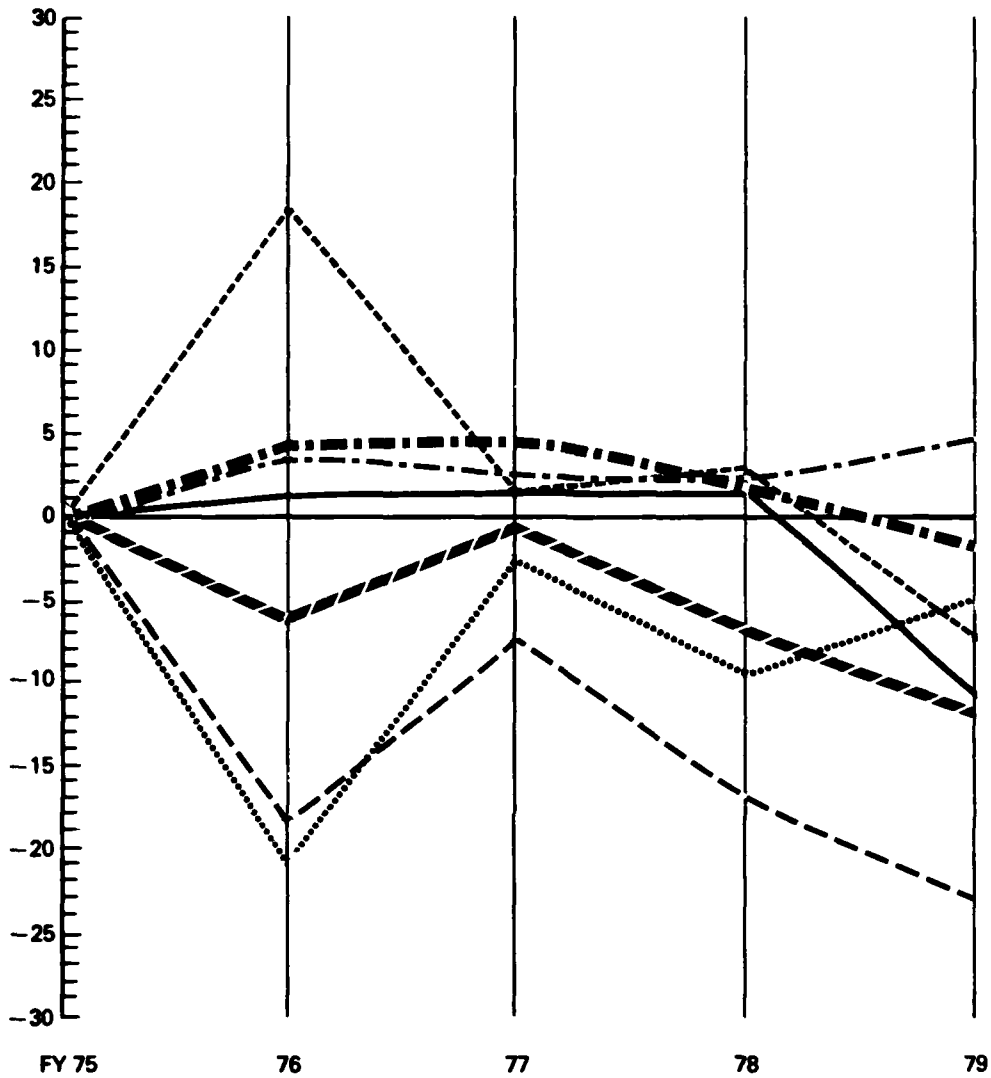
- 1. TOTAL ENERGY CONSUMPTION
- 2. THERMAL ENERGY CONSUMPTION
- 3. ELECTRIC ENERGY CONSUMPTION
- 4. ACTIVE REAL PROPERTY INVENTORY

- 5. BTU/GSF
- 6. INSTALLED AIR CONDITIONING CAPACITY
- 7. EFFECTIVE POPULATION

OFFICE, CHIEF OF ENGINEERS



MILITARY DISTRICT OF WASHINGTON



- 1. **////** TOTAL ENERGY CONSUMPTION
- 2. **- - -** THERMAL ENERGY CONSUMPTION
- 3. **■ ■ ■** ELECTRIC ENERGY CONSUMPTION
- 4. **.....** ACTIVE REAL PROPERTY INVENTORY
- 5. **.....** BTU/GSF
- 6. **————** INSTALLED AIR CONDITIONING CAPACITY
- 7. **- - -** EFFECTIVE POPULATION

UNITS/IFY	76	76	77	76	76	76	76
1 Energy Consumption & PD	74,604	72,876	-2,31	-12,51	100,102	-34,21	97,887
2 Thermal En Cons & PD	17,159	15,306	-10,81	-12,51	16,012	-6,71	13,305
3 Electrical En Cons & PD	57,445	57,570	0,21	-12,51	84,085	-55,41	84,582
4 Resident Population & PD	0	0	0	0	0	0	0
5 Non-Resident Population & PD	267	269	0,21	14,21	286	7,21	287
6 Population Served** & PD	267	269	0,21	14,21	286	7,21	287
7 Effective Population*** & PD	89	90	1,11	14,61	95	6,71	96
8 En Consumption/Pop Served & PD	279,4	270,9	-3,01	-23,41	350,0	-25,31	341,1
9 En Consumption/ER Pop & PD	838,2	809,7	-3,41	-23,71	1,053,7	-25,71	1,028,0
10 Electric En Consumption/Resident Population	0	0	0	0	0	0	0
11 Installed Air Cond Capacity & PD	80	80	0,1	-6,21	168	110,01	168
12 Elec Energy/Ton of Air Cond & PD	713,1	719,7	0,21	-6,71	500,5	-30,31	501,1
13 Real Property Inventory (RPI) & PD	92	113	22,81	22,81	161	35,01	161
14 RPI/Effective Population	1,03	1,25	21,51	1,11	1,69	63,91	1,68
15 Energy Consumption/GSF & PD	810,913	644,920	-20,51	-28,81	621,751	-23,31	607,984
16 Thermal En Consumption/GSF & PD	186,511	135,434	-27,41	-28,81	89,484	-46,71	85,124
17 Electrical En Consumption/GSF & PD	624,402	509,486	-18,41	-28,81	532,267	-16,41	522,860
18 RPI by Category							
Training							
Maintenance & Production	12	12			12		12
Research, Development & Testing	80	80			128		128
Storage		21					
Other Covered Storage					21		21
Hospital & Medical Administration							
Bachelor Hous'g							
Community Facilities							
Family Housing							
Operational Bldgs							
Utility Building							
Other							

**Population Served is the total Resident & Non-Resident Population
 ***ER Pop is Resident + 1/3 Non-Resident
 *PD is Percent Deviation from Base Year
 **PD is Percent Deviation from Base Year
 FY 76 ECIP - Storms - \$106,712 - Completed June 1977

UNITS/FY	75	76	77	78	79
1 Energy Consumption & PD	1,420,483	1,386,075	1,385,370	1,325,445	1,445,277
2 Thermal En Cons & PD	752,856	665,316	651,124	569,962	629,516
3 Electrical En Cons & PD	667,627	720,759	734,246	755,303	766,261
4 Resident Population & PD	11,839	11,218	10,341	10,335	16,393
5 Non-Resident Population & PD	4,572	4,723	5,944	6,039	4,315
6 Population Served** & PD	16,411	15,941	16,385	16,374	20,709
7 Effective Population*** & PD	13,363	12,792	12,422	12,148	17,932
8 En Consumption/Pop Served & PD	85.6	87.0	84.6	80.9	69.8
9 En Consumption/En Pop & PD	106.3	108.4	111.5	107.3	123.7
10 Electric En Consumption/Resident Population	56.4	64.3	70.3	73.1	46.7
11 Installed Air Cond Capacity & PD	4,039	4,384	5,148	4,954	5,398
12 Btu Energy/Ton of Air Cond & PD	165.2	164.4	162.6	152.5	142.0
13 Real Property Inventory (RPI) & PD	7,300	7,401	7,162	7,163	7,391
14 RPI/Effective Population	55	58	58	58	41
15 Energy Consumption/GSF & PD	194,586	187,282	193,433	185,040	195,613
16 Thermal En Consumption/GSF & PD	103,131	89,895	90,913	79,567	91,938
17 Electrical En Consumption/GSF & PD	91,455	97,386	102,519	105,473	103,674
18 sp by Category					
Training	436	472	392	392	499
Maintenance & Production	419	433	419	419	419
Research, Development & Testing	113	123	132	132	132
Storage	358	362	11	11	21
Other Covered Storage					
Hospital & Medical	170	176	168	168	166
Administration	763	726	759	759	792
Bachelor Housing	1,508	1,478	1,297	1,297	1,297
Community Facilities	649	603	600	600	675
Family Housing	2,749	2,896	2,854	2,885	2,885
Operational Buildings	65	68	68	68	68
Utility Buildings	70	70	70	70	70
Other	BASE	BASE	BASE	BASE	BASE

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Served** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/En Pop & PD
- 10 Electric En Consumption/Resident Population
- 11 Installed Air Cond Capacity & PD
- 12 Btu Energy/Ton of Air Cond & PD
- 13 Real Property Inventory (RPI) & PD
- 14 RPI/Effective Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 sp by Category

**Population Served is the total Resident & Non-Resident Population
 ***En Pop is Resident + 1/3 Non-Resident

REMARKS FY 76 ECIP - Electrical Alterations, Cooling System Alterations and Solar Film - \$372,773 - Completed December 1976

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - ET. RIICHTIE, IJD. MACOM ACC CLIMATIC REGION 2 HDD 5,897 CDD 688

UNITSIFY	76	78	77	78	79
MBTU	276,194	280,624	336,905	305,249	311,992
MBTU	135,950	133,675	164,575	153,625	149,000
MBTU	140,244	146,949	172,330	151,624	162,992
PEOPLE	1,702	1,657	1,742	1,651	1,375
PEOPLE	1,823	1,819	1,933	1,804	1,760
PEOPLE	3,525	3,476	3,675	3,787	5,135
PEOPLE	2,310	2,263	2,386	2,584	2,628
MBTU/CAP	78.4	80.7	91.7	80.6	60.8
MBTU/CAP	119.6	124.0	141.2	118.1	118.7
MBTU/CAP	82.4	88.7	98.9	76.5	118.5
TONS	2,088	2,067	2,068	2,068	2,079
MBTU/TON	67.2	71.1	83.3	73.3	78.4
KSF	1,786	1,803	1,803	1,795	1,810
KSF/CAP	77	80	76	69	69
BTU/GSF	154,644	155,643	186,858	170,055	172,371
BTU/GSF	76,120	74,140	91,278	85,585	82,320
BTU/GSF	78,524	81,503	95,580	84,470	90,051
KSF	50	50	51	51	64
KSF	62	62	74	73	74
KSF	75	75	33	91	91
KSF	9	9	9	9	9
KSF	195	196	585	646	646
KSF	358	358	244	220	221
KSF	139	144	140	155	155
KSF	453	454	455	455	455
KSF	655	656	53	33	22
KSF	1	1	1	1	58
KSF	1	20	156	1	1

- 1 Energy Consumption & PD
 - 2 Thermal En Cons & PD
 - 3 Electrical En Cons & PD
 - 4 Resident Population & PD
 - 5 Non-Resident Population & PD
 - 6 Population Served** & PD
 - 7 Effective Population*** & PD
 - 8 En Consumption/Pop Served & PD
 - 9 En Consumption/ER Pop & PD
 - 10 Electric En Consumption/Resident Population
 - 11 Installed Air Cond Capacity & PD
 - 12 Elec Energy/Ton of Air Cond & PD
 - 13 Heat Property Inventory (RPI) & PD
 - 14 RPI/Effective Population
 - 15 Energy Consumption/GSF & PD
 - 16 Thermal En Consumption/GSF & PD
 - 17 Electrical En Consumption/GSF & PD
 - 18 RPI by Category
- Training
Maintenance & Production
Research, Development & Testing
Storage
Other Covered Storage
Hospitals & Medical
Administration
Bachelor Housing
Community Facilities
Family Housing
Operational Buildings
Utility Buildings
Other

**Population Served is the total Resident & Non-Resident Population
***ER Pop is Resident + 1/3 Non-Resident
*PD is Percent Deviation from Base Year
**Population Served is the total Resident & Non-Resident Population
***ER Pop is Resident + 1/3 Non-Resident

REMARKS

FY 77 Family Housing ECIP Improvements - \$65,795 - Completed (estimated) October 1978

UNITS/FY	75	76	77	78	79
1 Energy Consumption & PD	1,556,806	1,660,620	1,811,740	1,838,850	1,768,521
2 Thermal En Cons & PD	846,917	813,703	905,870	956,202	831,205
3 Electrical En Cons & PD	684,934	847,917	905,870	882,648	937,316
4 Resident Population & PD	892	887	806	849	845
5 Non-Resident Population & PD	2,204	2,327	2,425	2,403	2,591
6 Population Served** & PD	3,096	3,214	3,231	3,252	3,436
7 Effective Population*** & PD	1,627	1,663	1,614	1,650	1,709
8 En Consumption/Pop Served & PD	502.8	516.7	560.7	565.4	514.7
9 En Consumption/EN Pop & PD	956.9	998.6	1,122.5	1,114.4	1,034.8
10 Electric En Consumption/Resident Population	767.9	917.4	1,123.9	1,039.6	1,109.2
11 Installed Air Cond Capacity & PD	6,993	7,304	6,869	6,869	6,516
12 Elec Energy/Ton of Air Cond & PD	372.9	311.4	331.9	328.5	343.8
13 Real Property Inventory (RPI) & PD	2,021	2,084	1,479	1,483	1,485
14 RPI/Effective Population	1.24	1.25	.92	.90	.87
15 Energy Consumption/GSF & PD	770,314	796,842	1,224,976	1,239,952	1,190,923
16 Thermal En Consumption/GSF & PD	431,376	406,390	612,488	644,775	559,734
17 Electrical En Consumption/GSF & PD	338,938	390,452	612,488	595,177	631,189
18 RPI by Category					
Training	16	16	16	16	16
Maintenance & Production	100	100	88	87	71
Research, Development & Testing	991	1,018	474	480	477
Storage	131	131	1	1	1
Other Covered Storage					
Hospital & Medical	1				
Administration	197	160	138	139	134
Bachelor Housing	109	103	104	103	103
Community Facilities	27	108	96	96	104
Family Housing	253	253	235	242	244
Operational Buildings	98	102	103	103	108
Utility Buildings	24	70	85	84	75
Other					

**Population Served is the total Resident & Non-Resident Population
 ***EN Pop & Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - FITZSIMONS AWC, CO. - MACOM_HSC - CLIMATIC REGION 2_HDD 6,016_CDD 625

UNITS/Y	76	78	77	79	78
MBTU	815,320	802,778	769,732	773,550	805,861
MBTU	611,490	578,001	566,510	541,485	564,103
MBTU	203,830	224,777	223,222	232,065	241,758
PEOPLE	1,957	1,770	1,818	1,950	2,046
PEOPLE	3,065	3,111	2,984	2,809	2,830
PEOPLE	5,022	4,881	4,802	4,759	4,796
PEOPLE	2,979	2,807	2,813	2,866	2,996
MBTUCAP	162.3	164.5	160.3	162.5	164.6
MBTUCAP	273.7	286.0	273.6	268.0	289.0
MBTUCAP	108.2	127.0	122.8	119.0	118.2
TONS	1,037	1,051	1,273	1,273	1,273
MBTUTON	196.6	213.9	175.4	182.3	189.5
KSF	2,555	2,555	2,583	2,584	2,556
KSF	319,108	314,199	297,999	299,362	311,625
BTUGSF	239,331	226,224	211,580	209,553	218,137
BTUGSF	79,777	87,975	86,420	89,808	93,488
KSF	143	143	143	143	143
KSF	83	83	83	83	83
KSF	63	63	63	63	63
KSF	127	126	126	126	126
KSF	627	627	627	627	627
KSF	255	255	255	255	255
KSF	396	396	396	396	396
KSF	376	376	404	401	402
KSF	448	448	448	448	448
KSF	11	11	11	11	11
KSF	27	27	27	27	27

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Served** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/En Pop & PD
- 10 Electric En Consumption/Resident Population
- 11 Installed Air Cond Capacity & PD
- 12 Elec Energy/Ton of Air Cond & PD
- 13 Real Property Inventory (RPI) & PD
- 14 RPI/Effective Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPI by Category

Training
 Maintenance & Production
 Research, Development & Testing
 Storage
 Other Covered Storage
 Hospital & Medical
 Administration
 Bachelor Housing
 Community Facilities
 Family Housing
 Operational Buildings
 Utility Buildings
 Other

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***En Pop is Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION WALTER REED AXC WASH D.C. MACOM HSC CLIMATIC REGION 3 HDD 4,483 CDD 1,217

UNITS/FY	76	77	78	79
1. Energy Consumption & PD	1,382,199	1,463,500	1,652,943	1,919,611
2. Thermal En Cons & PD	732,566	746,385	760,354	781,311
3. Electrical En Cons & PD	649,633	717,115	892,589	1,138,300
4. Resident Population & PD	2,300	1,248	710	2,404
5. Non-Resident Population & PD	6,581	7,510	8,372	7,105
6. Population Served** & PD	8,881	9,228	9,082	9,509
7. Effective Population*** & PD	4,498	4,258	3,501	4,772
8. En Consumption/Pop Served & PD	155.4	157.7	182.0	254.9
9. En Consumption/Resident Population	307.3	343.7	472.1	467.0
10. Electric En Consumption/Resident Population	282.4	310.2	452.1	505.8
11. Installed Air Cond Capacity & PD	14,898	10,574	18,969	16,310
12. Elec Energy/Ton of Air Cond & PD	43.6	67.8	47.1	74.6
13. Real Property Inventory (RPI) & PD	2,966	2,876	3,236	5,323
14. RPI/Effective Population	66	68	92	112
15. Energy Consumption/GSF & PD	466,014	508,866	510,798	400,751
16. Thermal En Consumption/GSF & PD	246,988	259,522	234,967	172,323
17. Electrical En Consumption/GSF & PD	219,026	249,344	275,831	228,428
18. RPI by Category	129	14	14	14
Maintenance & Production	47	46	51	50
Research, Development & Testing	475	480	484	489
Storage	84	79	79	78
Other Covered Storage	1,159	1,157	1,593	2,983
Hospital & Medical Administration	152	140	157	165
Bachelor Housing	421	447	440	487
Community Facilities	291	280	280	341
Family Housing	155	134	57	81
Operational Buildings	51	86	86	54
Unity Buildings	Not Available	BASE	86	54
Other	Not Available	BASE	86	54

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION ARLINGTON HALL STATION, VA. MACOM INSCOM CLIMATIC REGION 3 HDD 4,211 CDD 1,415

UNITS/FY	76	77	78	79
MBTU	256,163	251,979	303,920	246,190
MBTU	94,781	88,193	139,804	81,243
MBTU	161,382	163,786	164,116	164,947
PEOPLE	295	152	198	180
PEOPLE	2,848	2,234	2,150	2,389
PEOPLE	3,143	2,386	2,348	2,569
PEOPLE	1,244	897	915	976
MBTU/CAP	81.5	105.6	129.4	95.8
MBTU/CAP	205.9	280.9	332.2	252.2
MBTU/CAP	547.1	1,071.5	828.9	916.4
TONS	2,929	2,887	2,887	2,887
MBTU/TON	55.1	56.7	56.8	57.1
KSF	905	905	905	906
KSF/CAP	0.73	1.01	0.98	0.93
BTU/GSF	283,053	278,429	335,823	271,732
BTU/GSF	1,04,730	97,450	154,479	89,672
BTU/GSF	178,323	180,979	181,343	182,060
KSF	3	3	3	6
KSF	24	24	23	23
KSF	32	32	38	34
KSF	for Available Separately-Included Above	BASE	5	5
KSF	5	5	661	652
KSF	656	655	79	84
KSF	84	85	75	85
KSF	85	85	9	9
KSF	9	9	4	8
KSF	1	1	8	8
KSF	6	6	8	8
KSF	Not Available	BASE	23	23

1. Energy Consumption & PD
2. Thermal En Cons & PD
3. Electrical En Cons & PD
4. Resident Population & PD
5. Non-Resident Population & PD
6. Population Served** & PD
7. Effective Population*** & PD
8. En Consumption/Pop Served & PD
9. En Consumption/En Cons & PD
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity & PD
12. Elec Energy/Ton of Air Cond & PD
13. Real Property Intensity (RPI) & PD
14. IP/Electric Population
15. Energy Consumption/GSF & PD
16. Thermal En Consumption/GSF & PD
17. Electrical En Consumption/GSF & PD
18. RPI by Category

Training
Maintenance & Production
Research, Development & Testing
Storage
Other Covered Storage
Hospitals & Medical
Administration
Bachelor Housing
Community Facilities
Family Housing
Operational Buildings
Utility Buildings
Other

**Population Served is the total Resident & Non-Resident Population
***En Pop & Resident + 10 Non-Resident

*PD is Percent Deviation from Base Year

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - WINT. HILL - FARMS - STATION - VA - MACOM - INSCOM - CLIMATIC REGION 3 - HDD 5_010_CDD_940

UNITS/FY	75	76	77	78	79
MBTU	270,460	266,538	259,117	259,948	260,040
MBTU	132,521	129,338	127,885	129,974	127,219
MBTU	137,928	138,399	137,332	129,974	137,821
PEOPLE	1,316	1,323	1,265	1,047	1,140
PEOPLE	992	906	743	630	775
PEOPLE	2,308	2,229	2,008	1,677	1,915
PEOPLE	1,647	1,625	1,513	1,257	1,398
MBTUCAP	117.2	119.6	129.0	135.0	135.8
MBTUCAP	164.2	164.0	171.3	206.8	186.0
MBTUCAP	104.8	104.8	108.6	124.1	120.9
TONS	2,479	2,500	2,500	2,500	2,500
MBTUTON	55.6	55.4	54.9	52.6	55.1
KSF	1,110	1,118	1,116	1,116	1,117
KSF/CAP	.67	.69	.74	.89	.80
BTUGSF	243,648	238,406	232,183	232,928	232,802
BTUGSF	119,388	116,436	109,126	116,464	109,417
BTUGSF	124,260	121,970	123,057	116,464	123,385
KSF	27	27	27	27	27
KSF	76	76	76	76	76
KSF	85	80	BASE	78	77
KSF	9	9	9	9	9
KSF	31	33	33	33	33
KSF	213	214	214	214	171
KSF	123	126	126	126	126
KSF	399	399	399	399	400
KSF	132	132	132	132	132
KSF	15	13	13	13	13
KSF	9	9	9	9	10

1. Energy Consumption @ PD
2. Thermal En Cons @ PD
3. Electrical En Cons @ PD
4. Resident Population @ PD
5. Non-Resident Population @ PD
6. Population Services** @ PD
7. Effective Population*** @ PD
8. En Consumption/Pop Served @ PD
9. En Consumption/Res Pop @ PD
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity @ PD
12. Elec Energy/Ton of Air Cond @ PD
13. Real Property Inventory (RPI) @ PD
14. RPI/Effective Population
15. Energy Consumption/GSF @ PD
16. Thermal En Consumption/GSF @ PD
17. Electrical En Consumption/GSF @ PD
18. RPI by Category

- Training
- Maintenance & Production
- Research, Development & Testing
- Storage
- Other Covered Storage
- Hospital & Medical
- Administration
- Bachelor Housing
- Community K. Sites
- Family Housing
- Operational Buildings
- Utility Buildings
- Other

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS

UNITS/FY	75	76	77	78	79
1. Energy Consumption @ PD	1,945,931	1,920,234	2,114,779	1,858,080	1,740,527
2. Thermal En Cons @ PD	1,310,425	1,272,525	1,354,875	1,216,925	1,121,400
3. Electrical En Cons @ PD	635,506	647,709	759,904	641,155	619,127
4. Resident Population @ PD	11,532	11,571	11,600	11,828	11,980
5. Non-Resident Population @ PD	3,196	5,487	6,679	3,906	4,367
6. Population Served*** @ PD	14,728	17,058	18,279	15,734	16,347
7. Effective Population**** @ PD	12,597	13,500	13,826	13,180	13,436
8. En Consumption/Pop Served @ PD	132.1	112.6	115.7	117.7	106.5
9. En Consumption/Pop Served @ PD	154.5	143.3	153.0	141.0	129.5
10. Electric En Consumption/Resident Population	55.1	56.0	65.5	54.0	51.7
11. Installed Air Cond Capacity @ PD	5,365	5,365	5,365	6,821	6,821
12. Elec Energy/Ton of Air Cond @ PD	118.5	120.7	141.6	94.0	90.8
13. Real Property Inventory (RPI) @ PD	10,210	10,318	10,318	10,028	9,886
14. RPI/Effective Population	.81	.77	.75	.76	.74
15. Energy Consumption/GSF @ PD	190,591	186,105	204,960	185,289	176,060
16. Thermal En Consumption/GSF @ PD	128,347	123,331	131,312	121,353	113,433
17. Electrical En Consumption/GSF @ PD	62,244	62,774	73,648	63,936	62,627
18. RPI by Category					
Training	948	948	948	588	475
Maintenance & Production	363	363	363	305	416
Research, Development & Testing					
Storage	252	263	10	6	9
Other Command Storage	Not Available Separately-Included Above				
Hospital & Medical Administration	364	364	364	157	216
Bachelor Housing	603	658	658	780	741
Community Facilities	2,531	2,531	2,531	2,402	2,295
Family Housing	1,980	1,980	1,980	1,754	1,754
Operational Buildings	3,287	3,345	3,345	3,312	3,373
Utility Buildings	178	130	130	20	20
Other	114	114	114	107	107
Not Available					
BASE	33	33	33	360	184

Population Served is the total Resident & Non-Resident Population *En Pop is Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION MILITARY DIST. OF WASH., D.C. MACOM 377 CLIMATIC REGION 3 HDD 4,211 CDD 1,415

UNITS/FY	76	76	77	78	78	79
MRTU	1,182,321	1,107,525	1,169,548	1,099,153	1,099,153	1,042,572
MRTU	543,868	443,010	502,906	450,653	450,653	477,029
MRTU	638,453	664,515	666,642	648,500	648,500	565,543
PEOPLE	5,297	5,294	5,120	5,120	5,120	5,455
PEOPLE	27,830	29,360	29,360	29,360	29,360	29,360
PEOPLE	33,127	34,656	34,680	34,680	34,680	34,615
PEOPLE	14,574	15,081	14,907	14,907	14,907	15,242
MRTU/CAP	35.7	32.0	33.9	31.9	31.9	29.9
MRTU/CAP	81.1	73.4	78.5	73.7	73.7	68.4
MRTU/CAP	120.5	125.5	130.2	126.7	126.7	114.7
TONS	9,064	9,166	9,166	9,166	9,166	9,103
MRTU/TON	70.7	72.5	72.7	70.8	70.8	77.1
KSF	4,987	5,900	5,055	5,120	5,120	4,625
KSF/CAP	34	39	34	34	34	30
BTU/GSF	237,319	187,716	231,365	214,678	214,678	225,421
BTU/GSF	109,167	75,086	99,487	88,018	88,018	90,168
BTU/GSF	128,152	112,630	131,878	126,660	126,660	135,253
KSF	4,000	394	380	380	380	344
KSF	195	246	290	290	290	345
KSF	520	412	418	418	418	266
KSF	83	95	64	64	64	67
KSF	843	1,607	849	849	849	929
KSF	1,173	1,353	747	747	747	982
KSF	857	890	1,404	1,404	1,404	788
KSF	588	588	588	588	588	575
KSF	194	95	95	95	95	65
KSF	129	220	220	220	220	246
Not Available						10

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Served** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/ER Pop & PD
- 10 Electric En Consumption/Resident Population
- 11 Inhabited Air Cond Capacity & PD
- 12 Elec Energy/Ton of Air Cond & PD
- 13 Heat Property Inventory (RPI) & PD
- 14 RPI/Effective Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPI by Category

PD at Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***ER Pop is Resident + 1/3 Non-Resident

Research, Development & Testing

Storage

Other Covered Storage

Hospital & Medical

Administration

Bachelor Housing

Community Facilities

Family Housing

Operational Buildings

Utility Buildings

Other

REMARKS Includes Cameron Station, VA., Ft Myer, VA., and FtMcNair, Washington, DC.

FY 77 ECIP (Ft McNair) - Insulation, Storms and Thermostats - \$120,000 - Completed (estimated) June 1978

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - RAYBORN MOT. HT. CLIMATIC REGION 3 - HDDS₃024 - CDD 1.024

UNITS/PT	76	77	78	79	80			
1. Energy Consumption @ PD	793,771	(12.21)	929,268	(17.11)	949,414	(19.61)	873,813	(10.00)
2. Thermal En Cons @ PD	571,516	(2.81)	604,025	(5.71)	617,120	(8.01)	576,717	(0.91)
3. Electrical En Cons @ PD	222,255	(36.21)	325,243	(46.31)	332,294	(49.31)	297,096	(34.06)
4. Resident Population @ PD	809	(8.91)	801	(-1.01)	794	(-1.91)	783	(-1.31)
5. Non-Resident Population @ PD	2,319	(25.51)	2,731	(17.81)	2,384	(2.81)	2,276	(-1.91)
6. Population Served** @ PD	3,128	(21.21)	3,532	(12.91)	3,178	(1.61)	3,059	(-2.21)
7. Effective Population*** @ PD	1,582	(17.01)	1,711	(8.21)	1,589	(0.41)	1,542	(-2.51)
8. En Consumption/Pop Served @ PD	253.8	(-7.41)	263.1	(3.71)	298.7	(17.71)	285.7	(12.61)
9. En Consumption/Res Pop @ PD	501.8	(-4.11)	543.1	(8.21)	597.5	(19.11)	566.7	(12.91)
10. Electric En Consumption/Res Pop @ PD	274.7	(25.11)	406.0	(47.81)	418.5	(52.31)	379.4	(38.11)
11. Installed Air Cond Capacity @ PD	1,305	(49.31)	1,794	(37.51)	1,794	(37.51)	1,794	(37.51)
12. Elec Energy/Ton of Air Cond @ PD	170.3	(-8.81)	181.3	(6.41)	185.2	(8.81)	165.6	(-2.81)
13. Real Property Inventory (RPI) @ PD	5,434	(0.11)	5,287	(-2.71)	5,287	(-2.71)	5,288	(-2.71)
14. Inhabitable Population	3,431	(-14.51)	3,091	(-10.01)	3,331	(-3.11)	3,431	(-0.21)
15. Energy Consumption/GSF @ PD	146,075	(12.21)	175,765	(20.31)	179,575	(22.91)	165,244	(13.11)
16. Thermal En Consumption/GSF @ PD	105,174	(2.91)	114,247	(8.61)	116,724	(11.01)	109,681	(3.71)
17. Electrical En Consumption/GSF @ PD	40,900	(36.31)	61,517	(50.41)	62,851	(51.71)	56,183	(37.41)
18. RPI by Category	2	2	2	2	2	2	2	
Training	768		768		768		768	
Maintenance & Production								
Research, Development & Testing								
Storage	3,806							
Other Covered Storage								
Hospital & Medical								
Administration								
Bachelor Housing								
Community Facilities								
Family Housing								
Operational Buildings								
Utility Buildings								
Other								

- 1. Energy Consumption @ PD
- 2. Thermal En Cons @ PD
- 3. Electrical En Cons @ PD
- 4. Resident Population @ PD
- 5. Non-Resident Population @ PD
- 6. Population Served** @ PD
- 7. Effective Population*** @ PD
- 8. En Consumption/Pop Served @ PD
- 9. En Consumption/Res Pop @ PD
- 10. Electric En Consumption/Res Pop @ PD
- 11. Installed Air Cond Capacity @ PD
- 12. Elec Energy/Ton of Air Cond @ PD
- 13. Real Property Inventory (RPI) @ PD
- 14. Inhabitable Population
- 15. Energy Consumption/GSF @ PD
- 16. Thermal En Consumption/GSF @ PD
- 17. Electrical En Consumption/GSF @ PD
- 18. RPI by Category

**PD is Percent Deviation from Base Year
 ***Population Served is the total Resident & Non-Resident Population
 ****RPI Pop is Resident + 1/3 Non-Resident

REMARKS ▼ FY 76 ECIP - Condensate Recovery - \$128,000 - Completed October 1977

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION MILITARY TRAFFIC NET CWD MACOM MTC CLIMATIC REGION 4 HDO 2,384 CDD 1,565

UNIT/SFY	76	77	78	79
1. Energy Consumption @ PD	700.479	416.005	317.713	302.304
2. Thermal En Con. @ PD	429.409	217.510	133.600	136.680
3. Electrical En Con. @ PD	271.070	198.495	184.113	165.624
4. Resident Population @ PD	620	285	316	506
5. Non-Resident Population @ PD	3,369	2,457	2,151	2,637
6. Population Served** @ PD	3,798	2,732	2,527	3,143
7. Effective Population*** @ PD	1,552	1,212	1,093	1,385
8. En Consumption/Pop Served @ PD	184.4	151.2	125.7	96.2
9. En Consumption/Res Pop @ PD	651.3	343.2	290.7	218.3
10. Electric En Consumption/Res Pop @ PD	531.3	672.9	489.7	327.3
11. Installed Air Cond Capacity @ PD	588	589	302	315
12. Elec Energy/In of Air Cond @ PD	661.0	337.0	609.6	525.8
13. Heat Property Inventory (RHS) @ PD	8,472	6,202	3,520	3,948
14. Inertive Population	5.46	5.12	3.22	2.85
15. Energy Consumption/GSF @ PD	82.682	67.076	90.239	76.571
16. Thermal En Consumption/GSF @ PD	50.686	35.071	37.955	34.670
17. Electrical En Consumption/GSF @ PD	31.996	32.005	52.305	41.951
18. (RHS) by Category	32			
Maintenance & Production	259	129	130	128
Research, Development & Testing				
Storage				
Other Covered Storage	5,862	4,108	2,344	2,545
Hospital & Medical				
Administration	29	18	18	18
Bachelor Housing	1,662	1,094	438	458
Community Facilities	249	156	191	204
Family Housing	330	304	216	207
Operational Buildings	172	167	167	167
Utility Buildings	16	12	12	12
Other	61			
Not Available				
BASE	214	4	209	209

**Population Served is the total Resident & Non-Resident Population
 ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS Includes all MTC activities except Rayonne Military Ocean Terminal, NJ, which is reported separately.

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - FT. SHAFTER, HI MACOM HESCOM CLIMATIC REGION 6 HDD 0 CDD 4,221

UNITS/TYPE	76	78	77	78	79
1. Energy Consumption @ PD	732,711	725,315 (-1.0)	764,155 (+4.3)	1,036,907 (+41.5)	1,200,689 (+15.4)
2. Thermal En Cons @ PD	168,574	166,823 (-1.0)	168,115 (-0.2)	355,537 (+7.7)	144,083 (-15.1)
3. Electrical En Cons @ PD	564,187	558,492 (-1.0)	596,040 (+5.6)	881,370 (+56.2)	1,056,606 (+18.7)
4. Resident Population @ PD	3,550	2,603 (-1.0)	5,224 (+5.9)	7,479 (+34.8)	8,929 (+19.7)
5. Non-Resident Population @ PD	9,410	8,791 (-6.6)	4,541 (-51.7)	4,377 (-3.5)	4,113 (-5.9)
6. Population Served** @ PD	14,960	14,394 (-3.8)	9,765 (-34.7)	11,856 (-20.7)	13,082 (-9.1)
7. Effective Population*** @ PD	8,687	8,533 (-1.8)	6,738 (-22.4)	8,938 (+2.9)	10,320 (+18.4)
8. En Consumption/Pop Served @ PD	49.0	30.4 (-1.8)	78.2 (+59.8)	87.4 (+11.6)	91.9 (+5.1)
9. En Consumption/ER Pop @ PD	84.3	85.0 (+0.8)	113.4 (+34.4)	116.0 (+2.3)	116.3 (+0.3)
10. Electric En Consumption/Resident Population	101.7	99.7 (-1.9)	114.1 (+12.2)	117.8 (+3.5)	118.1 (+0.3)
11. Insulated Air Cond Capacity @ PD	2,920	3,835 (+31.3)	4,230 (+44.9)	4,469 (+53.1)	4,491 (+0.5)
12. Elec Energy/Ton of Air Cond @ PD	193.2	145.6 (-24.6)	140.9 (-27.1)	197.2 (+2.1)	235.3 (+18.8)
13. Heat Recovery Inventory (HRV) @ PD	6,508	6,966 (+7.0)	6,698 (-2.9)	7,232 (+8.1)	10,238 (+41.3)
14. IRPV/Effective Population	.75	.821 (+8.9)	.99 (+32.7)	.81 (-8.0)	.99 (+24.4)
15. Energy Consumption/GSF @ PD	112,586	104,122 (-7.5)	114,087 (+1.1)	143,378 (+27.3)	117,278 (-11.8)
16. Thermal En Consumption/GSF @ PD	25,895	23,948 (-7.5)	25,099 (-3.1)	21,507 (-16.9)	14,073 (-35.6)
17. Electrical En Consumption/GSF @ PD	86,691	80,174 (-7.5)	88,988 (+2.6)	121,871 (+40.6)	103,204 (-15.3)
18. IPI by Category					
Training	343	145	145	320	301
Maintenance & Production	340	326	259	320	194
Research, Development & Testing	-	-	-	-	-
Storage	1,581	1,595	265	265	1,744
Other Covered Storage	-	-	BASE	1,920	744
Hospitals & Medical	813	812	803	803	611
Administration	575	586	575	628	373
Bachelor Housing	354	377	359	366	1,094
Community Facilities	246	1,194	1,078	1,104	4,631
Family Housing	1,503	1,478	1,463	1,437	1,03
Operational Buildings	453	416	416	36	32
Utility Buildings	-	36	-	36	59
Other	-	-	-	-	-

- 1. Energy Consumption @ PD
- 2. Thermal En Cons @ PD
- 3. Electrical En Cons @ PD
- 4. Resident Population @ PD
- 5. Non-Resident Population @ PD
- 6. Population Served** @ PD
- 7. Effective Population*** @ PD
- 8. En Consumption/Pop Served @ PD
- 9. En Consumption/ER Pop @ PD
- 10. Electric En Consumption/Resident Population
- 11. Insulated Air Cond Capacity @ PD
- 12. Elec Energy/Ton of Air Cond @ PD
- 13. Heat Recovery Inventory (HRV) @ PD
- 14. IRPV/Effective Population
- 15. Energy Consumption/GSF @ PD
- 16. Thermal En Consumption/GSF @ PD
- 17. Electrical En Consumption/GSF @ PD
- 18. IPI by Category

**Population Served is the total Resident & Non-Resident Population
 ***ERI Pop @ Resident + 1/3 Non-Resident

REMARKS

UNITS/FY	75	76	77	78	79
1. Energy Consumption & PD	1,838,189	1,473,160 (-19.91)	1,518,103 (-17.41)	1,566,259 (-14.81)	1,616,514 (-12.01)
2. Thermal En Cons & PD	165,438	147,316 (-11.01)	151,811 (-8.21)	172,289 (-4.11)	177,817 (-3.21)
3. Electrical En Cons & PD	1,672,751	1,325,844 (-20.71)	1,366,292 (-18.31)	1,393,970 (-16.71)	1,438,697 (-14.01)
4. Resident Population & PD	20,652	20,537 (-0.61)	21,220 (-14.91)	24,268 (-17.51)	24,269 (-17.51)
5. Non-Resident Population & PD	5,073	5,260 (3.71)	2,129 (-58.01)	2,089 (-58.81)	2,177 (-57.11)
6. Population Served** & PD	25,725	25,797 (0.31)	23,849 (-8.51)	26,357 (1.21)	26,446 (0.31)
7. Effective Population*** & PD	22,343	22,290 (-0.21)	24,430 (9.31)	24,964 (11.71)	24,995 (11.91)
8. En Consumption/Pop Served & PD	71.5	57.1 (-20.11)	58.7 (-17.81)	59.4 (-16.81)	61.1 (-14.51)
9. En Consumption/EN Pop & PD	82.3	66.1 (-19.71)	62.1 (-24.41)	62.7 (-23.71)	64.7 (-21.41)
10. Electric En Consumption/Resident Population	81.0	64.6 (-20.31)	57.6 (-29.11)	57.4 (-29.11)	59.3 (-26.81)
11. Insulated Air Cond Capacity & PD	4,679	3,591 (-23.51)	6,093 (30.21)	6,054 (-0.61)	6,021 (-0.51)
12. Elec Energy/Ton of Air Cond & PD	357.5	237.1 (-33.71)	224.2 (-37.31)	230.3 (-35.61)	238.9 (-33.21)
13. Real Property Inventory (RPI) & PD	11,041	11,750 (6.51)	12,147 (10.01)	12,557 (13.71)	12,610 (14.21)
14. RPI/Effective Population	49	531 (6.71)	50 (0.61)	501 (1.81)	50 (2.11)
15. Energy Consumption/GSF & PD	166,488	125,279 (-24.81)	124,977 (-24.91)	124,731 (-25.11)	128,193 (-23.01)
16. Thermal En Consumption/GSF & PD	14,984	12,528 (-16.41)	12,498 (-16.61)	137,211 (-8.41)	14,101 (-3.91)
17. Electrical En Consumption/GSF & PD	151,504	112,751 (-25.61)	112,479 (-25.81)	111,011 (-26.71)	114,092 (-24.71)
18. RPI by Category	95	108	132	135	145
Training					
Maintenance & Production					
Research, Development & Testing					
Storage					
Other Covered Storage					
Hospital & Medical					
Administration					
Bachelor Housing					
Community Facilities					
Family Housing					
Operational Buildings					
Utility Buildings					
Other					
Not Available					

PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population *En Pop is Resident + 1/3 Non-Resident

REMARKS

U.S. Army -- ANALYSIS OF ENERGY CONSUMPTION -- INSTALLATION FT. BRAGG, N.C. MACOM FORSCOM CLIMATIC REGION 4 HDD 3,105 CDD 1,760

UNITS/FY	75	76	77	78	79
Energy Consumption & PD	5,625,140	5,454,489	5,463,948	5,876,248	5,564,844
Thermal En Core & PD	3,037,576	2,727,245	2,622,698	2,937,124	2,671,126
Electrical En Core & PD	2,587,564	2,727,244	2,841,250	2,939,124	2,893,718
Resident Population & PD	33,680	34,517	35,003	36,515	33,064
Non-Resident Population & PD	8,015	9,888	9,478	9,208	8,427
Population Served** & PD	41,695	44,405	44,481	45,723	41,491
Electric Population*** & PD	36,352	37,813	38,162	37,584	35,873
En Consumption/Pop Served & PD	134.9	122.8	122.8	134.3	134.1
En Consumption/ER Pop & PD	154.7	144.2	143.2	156.3	155.1
Electric En Consumption/Resident Population	76.8	79.0	81.2	85.1	87.6
Installed Air Cond Capacity & PD	15,696	19,285	19,364	20,075	20,431
Electric Energy/Ton of Air Cond & PD	164.8	141.4	146.7	146.3	141.6
Real Property Inventory (RPI) & PD	20,538	21,950	21,988	22,004	22,101
RPI/En Consumption	0.56	0.58	0.57	0.59	0.62
BTUGSF	273,889	248,496	248,497	266,963	251,792
Thermal En Consumption/GSF & PD	147,900	124,248	119,278	133,481	120,860
BTUGSF	125,989	134,248	129,218	133,481	130,931
Electrical En Consumption/GSF & PD	125,989	134,248	129,218	133,481	130,931
RPI by Category					
Training	669	776	726	729	732
Maintenance & Production	1,213	1,261	1,344	1,379	1,437
Research, Dev, Support & Testing	38	38	38	38	38
Storage	1,681	1,455	61	61	60
Other Covered Storage					
Hospital & Medical	776	776	1,352	1,372	1,340
Administration	969	1,061	660	653	648
Bachelor Housing	7,097	7,385	998	1,041	1,116
Community Facilities	1,519	1,603	7,344	7,317	7,317
Family Housing	3,275	6,226	1,580	1,577	1,521
Operational Buildings	637	646	7,031	7,031	7,031
Utility Buildings	144	179	633	637	634
Other	Not Available	44	179	179	170
			42	49	49

- 1. Energy Consumption & PD
- 2. Thermal En Core & PD
- 3. Electrical En Core & PD
- 4. Resident Population & PD
- 5. Non-Resident Population & PD
- 6. Population Served** & PD
- 7. Electric Population*** & PD
- 8. En Consumption/Pop Served & PD
- 9. En Consumption/ER Pop & PD
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity & PD
- 12. Elec Energy/Ton of Air Cond & PD
- 13. Real Property Inventory (RPI) & PD
- 14. RPI/En Consumption
- 15. Energy Consumption/GSF & PD
- 16. Thermal En Consumption/GSF & PD
- 17. BTUGSF
- 18. Electrical En Consumption/GSF & PD
- 19. RPI by Category

REMARKS

▽ FY 76 ECIP - Insulation and Weatherproofing - \$2,646,027 - Completed (estimated) June 1978

▽ FY 77 ECIP - Install Mercury Vapor Lighting \$217,000 - Completed (estimated) October 1978

▽ FY 77 Family Housing ECIP Improvements - \$238,980 - Completed (estimated) October 1978

****ER Pop & Resident + NR Non-Resident

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - FT. CAMPBELL, KY MACOM FORSCOM CLIMATIC REGION 3 HDD 4,290 CDD 1,472

UNITS	76	78	77	78	78	78			
MRTU	3,158,466	3,405,779	(7.8)	3,805,123	(20.5)	3,965,901	(25.6)	3,896,415	(23.0)
MRTU	1,737,157	1,907,237	(9.8)	1,978,664	(13.9)	1,824,315	(5.0)	1,831,316	(5.4)
MRTU	1,421,309	1,498,542	(5.4)	1,826,459	(28.5)	2,141,586	(50.7)	2,065,099	(45.0)
PEOPLE	29,132	29,794	(2.3)	32,192	(10.5)	33,818	(16.1)	32,832	(12.6)
PEOPLE	5,924	6,165	(4.1)	6,092	(1.7)	6,190	(4.5)	5,872	(-0.9)
PEOPLE	35,056	35,959	(2.6)	38,214	(9.0)	40,008	(14.1)	38,684	(10.3)
PEOPLE	31,107	31,849	(2.4)	34,199	(9.9)	35,881	(15.3)	34,769	(11.8)
MRTUCAP	90.1	94.7	(5.1)	99.6	(10.5)	99.1	(10.0)	100.7	(11.8)
MRTUCAP	101.5	106.9	(5.3)	111.3	(9.6)	110.5	(8.9)	112.1	(10.4)
MRTUCAP	48.8	50.3	(3.1)	56.7	(16.3)	63.3	(29.8)	62.9	(29.0)
TONS	6,906	8,111	(17.4)	17,985	(160.4)	19,503	(182.4)	19,731	(185.7)
MRTUMTON	205.8	184.8	(-10.2)	101.6	(-50.7)	109.8	(-46.6)	104.7	(-49.1)
KSF	13,501	13,545	(0.3)	15,963	(18.2)	16,544	(22.5)	16,643	(23.3)
KSF	0.43	0.42	(-2.0)	0.47	(7.5)	0.46	(6.2)	0.48	(10.3)
BTUGSF	233,943.1	251,441.8	(7.5)	238,371.4	(1.9)	239,718.4	(2.5)	234,117.3	(-0.1)
BTUGSF	128,668.8	140,807.5	(9.4)	123,953.1	(-3.7)	110,270.5	(-14.3)	110,035.2	(-16.5)
BTUGSF	105,274.4	110,634.3	(5.1)	114,418.3	(8.7)	129,447.9	(23.0)	124,082.1	(17.9)
KSF	542	466	(-13.8)	487	(5.2)	509	(4.5)	515	(1.2)
KSF	1,420	1,424	(0.3)	1,484	(4.5)	1,524	(2.7)	1,557	(2.1)
KSF	1,258	1,258	(0.0)	337	(26.8)	337	(0.0)	928	(73.9)
Net Available Separately-Included Above				BASE		925		649	
Other Covered Storage				627		633		313	
Hospital & Me Hall				373		340		4,884	
Administration				4,230		4,621		1,114	
Bachelor House Yg				890		1,059		5,980	
Community Fr Alms				3,576		5,717		300	
Family Housing				164		232		58	
Operational Buildings				371		58		58	
Utility Buildings				BASE		58		58	
Other									

- Energy Consumption @ PD
 - Thermal En Cons @ PD
 - Electrical En Cons @ PD
 - Resident Population @ PD
 - Non-Resident Population @ PD
 - Population Served** @ PD
 - Effective Population*** @ PD
 - En Consumption/Pop Served @ PD
 - En Consumption/ER Pop @ PD
 - Electric En Consumption/Resident Population
 - Included All Cond Capacity @ PD
 - Electric En Cons/Ton of All Cond @ PD
 - Heat Recovery Inventory (RPH) @ PD
 - Net/Effective Population
 - Energy Consumption/GSF @ PD
 - Thermal En Consumption/GSF @ PD
 - Electrical En Consumption/GSF @ PD
 - RPH by Category
- Training
Maintenance & Production
Research, Development & Testing
Storage
Other Covered Storage
Hospital & Me Hall
Administration
Bachelor House Yg
Community Fr Alms
Family Housing
Operational Buildings
Utility Buildings
Other

**Population Served is the total Resident & Non-Resident Population
***ER Pop is Resident + 1/3 Non-Resident

REMARKS
FY 76 ECIP - Energy Conservation Alterations \$91,269 - Completed June 1977
FY 77 Family Housing ECIP Improvements - \$224,978 - Completed (estimated) October 1978

UNITS/FY	76	77	78	79	80
1. Energy Consumption & PD	2,658,284	2,395,613	2,298,186	1,376,131	2,415,160
2. Thermal En Core & PD	1,834,561	1,533,833	1,424,876	1,376,131	1,415,160
3. Electrical En Core & PD	824,223	862,780	873,310	60,000	845,376
4. Resident Population & PD	16,850	16,531	16,148	14,421	15,905
5. Non-Resident Population & PD	24,224	23,350	21,886	19,741	18,410
6. Population Serviced** & PD	41,074	39,881	38,034	34,162	34,315
7. Electric Population*** & PD	24,525	24,314	23,443	19,591	22,042
8. En Consumption/Pop Served & PD	64.7	60.1	60.4	59.7	70.4
9. En Consumption/Resident Pop & PD	106.7	98.6	98.0	109.6	109.6
10. Electric En Consumption/Resident Population	48.9	52.2	54.1	53.2	53.2
11. Installed Air Cond Capacity & PD	3,629	3,950	5,150	4,996	4,996
12. Elec Energy/Ton of Air Cond & PD	227.1	248.4	169.6	169.2	169.2
13. Fuel Property Inventory (MPP) & PD	10,579	10,937	11,592	12,195	12,195
14. RMY/Effective Population	0.42	0.45	0.49	0.55	0.55
15. Energy Consumption/GSF & PD	251,327	219,129	198,256	121,111	198,062
16. Thermal En Consumption/GSF & PD	173,615	140,242	122,918	128,739	128,739
17. Electrical En Consumption/GSF & PD	77,911	78,886	75,337	69,371	69,371
18. RPI by Category					
Training	633	541	737	860	860
Maintenance & Production	1,148	1,099	1,178	1,182	1,182
Research, Development & Testing					
Storage	533	42	47	47	47
Other Covered Storage	Not Available	BASE	632	645	645
Hospital & Medical	645	637	555	556	556
Administration	285	711	406	406	406
Bachelor Housing	3,065	3,049	3,144	3,105	3,105
Community Facilities	890	883	948	948	948
Family Housing	2,666	2,791	2,725	2,726	2,726
Operational B. Bldgs	464	801	969	992	992
Utility Buildings	250	189	179	179	179
Other	Not Available	BASE	62	62	588

*PD as Percent Deviation from Base Year
 **Population Served in the total Resident & Non-Resident Population
 ***ERT Pop in Resident + 1/3 Non-Resident

REMARKS
 ▽ FY 76 ECIP - Storms, Insulation and Heating Controls - \$509,410 - Completed June 1977
 ▽ FY 77 ECIP - Insulation and Electrical Alterations - \$591,217 - Completed (estimated) June 1978
 ▽ FY 77 Family Housing ECIP Improvements - \$676,587 - Completed (estimated) October 1978

UNITS/FY	76	77	78	79
1. Energy Consumption & PD	1,772,353	2,330,409	(31.5)	2,364,765
2. Thermal En Cons & PD	1,240,648	1,634,591	(33.4)	1,678,984
3. Electrical En Cons & PD	531,705	695,818	(27.1)	685,781
4. Resident Population & PD	12,908	12,393	(- 4.0)	11,828
5. Non-Resident Population & PD	2,696	1,271	(- 52.9)	1,807
6. Population Saved** & PD	15,604	13,664	(- 12.4)	13,685
7. Effective Population*** & PD	13,807	12,817	(- 7.2)	12,480
8. En Consumption/Pop Saved & PD	113.6	170.6	(50.2)	172.8
9. En Consumption/Resident Population	128.4	181.8	(41.6)	189.5
10. Electric En Consumption/Resident Population	61.2	54.5	(- 11.3)	57.7
11. Installed Air Cond Capacity & PD	1,870	2,468	(32.0)	3,130
12. Elec Energy/Ton of Air Cond & PD	284.3	273.8	(- 3.7)	219.1
13. Real Property Inventory (RPI) & PD	10,733	11,805	(10.0)	11,208
14. Ineffective Population				90
15. Energy Consumption/GSF & PD	163,131.2	197,408	(19.5)	210,989
16. Thermal En Consumption/GSF & PD	115,591	140,160	(21.3)	149,802
17. Electrical En Consumption/GSF & PD	49,539	57,248	(15.6)	61,186
18. RPI by Category				
Training	1,675	1,628		1,290
Maintenance & Production	873	749		803
Research, Development & Testing				
Storage				
Other Covered Storage	709	744		119
Hospital & Medical				
Administration	1,957	2,491		543
Community Facilities	1,835	2,157		160
Family Housing	619	630		1,955
Operational Buildings	3,024	3,068		1,979
Utility Buildings	55	222		240
Other	22	58		47
Not Available				18
Net Available				1,441
Base				771
PD in Percent Deviation from Base Year				14
**Population Saved in the total Resident & Non-Resident Population				124
***Eff Pop is Resident + 1/3 Non-Resident				129
Net Available Separately-Included Above				519
Base				165
Not Available Separately-Included Above				160
Base				1,955
Not Available Separately-Included Above				1,979
Base				646
Not Available Separately-Included Above				2,996
Base				240
Not Available Separately-Included Above				47
Base				18
Not Available Separately-Included Above				1,441
Base				771
Not Available Separately-Included Above				14
Base				124
Not Available Separately-Included Above				129
Base				519
Not Available Separately-Included Above				165
Base				160
Not Available Separately-Included Above				1,955
Base				1,979
Not Available Separately-Included Above				646
Base				2,996
Not Available Separately-Included Above				240
Base				47
Not Available Separately-Included Above				18
Base				1,441

- 1. Energy Consumption & PD
- 2. Thermal En Cons & PD
- 3. Electrical En Cons & PD
- 4. Resident Population & PD
- 5. Non-Resident Population & PD
- 6. Population Saved** & PD
- 7. Effective Population*** & PD
- 8. En Consumption/Pop Saved & PD
- 9. En Consumption/Resident Population
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity & PD
- 12. Elec Energy/Ton of Air Cond & PD
- 13. Real Property Inventory (RPI) & PD
- 14. Ineffective Population
- 15. Energy Consumption/GSF & PD
- 16. Thermal En Consumption/GSF & PD
- 17. Electrical En Consumption/GSF & PD
- 18. RPI by Category

*PD in Percent Deviation from Base Year
 **Population Saved in the total Resident & Non-Resident Population
 ***Eff Pop is Resident + 1/3 Non-Resident

FY 76 ECIP - Storms and Energy Conservation Alterations - \$232,742 Completed (estimated) November 1977
 FY 77 Family Housing ECIP Improvements - \$615,550 - Completed (estimated) October 1978

REMARKS

A-18

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION ET DRUM, N.Y. MACOM EDSCOM CLIMATIC REGION J HDD 7,601 CDD 452

UNITS/FY	76	76	77	78	78
1. Energy Consumption & PD	432,179	437,772	494,660	661,613	591,907
2. Thermal En Cons & PD	229,055	223,266	281,957	410,201	349,226
3. Electrical En Cons & PD	203,124	214,508	212,703	251,412	242,681
4. Resident Population & PD	2,644	2,849	2,735	3,446	3,470
5. Non-Resident Population & PD	1,079	1,130	1,188	1,251	1,271
6. Population Served*** & PD	3,723	3,979	3,923	4,697	4,741
7. Effective Population**** & PD	3,004	3,226	3,131	3,863	4,360
8. En Consumption/Pop Served & PD	116.1	110.0	126.1	140.9	96.4
9. En Consumption/EN Pop & PD	143.9	135.7	158.0	171.3	135.8
10. Electric En Consumption/Resident Population	76.8	75.3	77.8	72.9	69.9
11. Installed Air Cond Capacity & PD	235	235	324	319	379
12. Elec Empt/Con of Air Cond & PD	864.4	912.8	656.5	788.1	640.3
13. Heat Property Inventory (RPP) & PD	1,750	4,729	4,761	4,663	4,741
14. RPP/Effective Population	.58	1.46	1.52	1.21	1.09
15. Energy Consumption/GSF & PD	246,959	92,571	103,898	141,885	124,848
16. Thermal En Consumption/GSF & PD	130,889	47,211	59,222	87,969	73,660
17. Electrical En Consumption/GSF & PD	116,070	45,360	44,676	53,916	51,187
18. RPP by Category					
Training	354	398	398	470	454
Maintenance & Production	532	645	645	567	606
Research, Development & Testing					
Storage					
Other Covered Storage	335	677	39	44	39
Hospital & Medical					
Administration	28	111	643	625	659
Bachelor Housing	96	172	111	114	108
Community Facilities	65	2,049	172	172	170
Family Housing	137	451	2,075	2,064	2,055
Operational Buildings	180	182	182	182	182
Utility Buildings	5	18	13	13	6
Other	Not Available	Not Available	Not Available	Not Available	Not Available
	5	28	28	28	27
	Not Available	3	3	11	9

PD is Percent Deviation from Base Year *EN Pop is Resident + 1/3 Non-Resident

- 1. Energy Consumption & PD
- 2. Thermal En Cons & PD
- 3. Electrical En Cons & PD
- 4. Resident Population & PD
- 5. Non-Resident Population & PD
- 6. Population Served*** & PD
- 7. Effective Population**** & PD
- 8. En Consumption/Pop Served & PD
- 9. En Consumption/EN Pop & PD
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity & PD
- 12. Elec Empt/Con of Air Cond & PD
- 13. Heat Property Inventory (RPP) & PD
- 14. RPP/Effective Population
- 15. Energy Consumption/GSF & PD
- 16. Thermal En Consumption/GSF & PD
- 17. Electrical En Consumption/GSF & PD
- 18. RPP by Category

REMARKS

UNITS/FY	76	77	78	79
MBTU	485,715	475,590	456,096	427,681
MBTU	415,825	422,300	419,150	387,000
MBTU	69,890	53,290	36,946	40,681
PEOPLE	1,545	1,880	1,669	1,639
PEOPLE	1,822	280	292	875
PEOPLE	1,637	2,160	1,961	2,512
MBTUCAP	266.6	1,973	1,766	1,930
MBTUCAP	296.7	220.1	232.6	170.3
MBTUCAP	45.2	241.0	238.3	221.6
TONS	17.4	28.3	22.1	24.8
MBTUCAP	1,506	1,587	1,587	1,557
KSF	83.1	80.1	90	81
BTUGSF	307,016	299,679	287,395	274,683
BTUGSF	276,112	266,100	264,115	248,555
KSF	19,896	33,579	23,280	26,128
KSF	4	4	4	9
KSF	178	178	178	180
KSF	66	57	57	43
KSF	167	16	16	15
KSF	12	12	131	118
KSF	35	40	40	50
KSF	245	251	251	224
KSF	134	125	125	173
KSF	593	589	589	590
KSF	26	5	5	51
KSF	28	172	172	85
Other				5

1. Energy Consumption & PD
 2. Thermal En Cons & PD
 3. Electrical En Cons & PD
 4. Resident Population & PD
 5. Non-Resident Population & PD
 6. Population Served & PD
 7. Effective Population*** & PD
 8. En Consumption/Pop Served & PD
 9. En Consumption/Resident Pop & PD
 10. Electric En Consumption/Resident Population
 11. Installed Air Cond Capacity & PD
 12. Elec Energy/Ton of Air Cond & PD
 13. Real Property Inventory (RPI) & PD
 14. RPI/Effective Population
 15. Energy Consumption/GSF & PD
 16. Thermal En Consumption/GSF & PD
 17. Electrical En Consumption/GSF & PD
 18. RPI by Category
- Training
Maintenance & Production
Research, Development & Testing
Storage
Other Covered Storage
Hospital & Medical
Administration
Bachelor Housing
Community Facilities
Family Housing
Operational Buildings
Utility Buildings
Other

REMARKS: FY 77 Family Housing ECIP Improvements - \$183,305 - Completed (estimated) October 1978

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop is Resident + 1/3 Non-Resident

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION FT. HOOD, TX MACOM FORSCOM CLIMATIC REGION 6 HDD¹, 959 CDD 2,792

UNITS/FY	76	77	78	79	80				
MRTU	4,117,156	4,180,358	(1,51)	4,669,447	(13,41)	4,855,367	(17,91)	4,298,246	(4,41)
MRTU	1,833,832	1,819,138	(-2,91)	2,007,863	(6,01)	1,893,594	(0)	1,891,229	(-0,11)
MRTU	2,223,284	2,341,000	(5,31)	2,661,384	(19,71)	2,961,773	(33,21)	2,407,017	(8,31)
PEOPLE	38,105	40,907	(7,41)	43,445	(14,01)	43,021	(12,91)	41,467	(8,81)
PEOPLE	23,771	25,133	(5,71)	23,853	(8,81)	25,209	(6,01)	25,300	(6,41)
PEOPLE	61,876	66,090	(6,71)	69,298	(12,01)	68,230	(10,31)	66,767	(7,91)
PEOPLE	46,029	49,285	(7,11)	52,063	(13,11)	51,424	(11,71)	49,900	(8,41)
MRTUCAP	66,5	63,3	(-4,91)	67,4	(1,31)	71,2	(6,91)	64,4	(-3,21)
MRTUCAP	89,4	84,8	(-5,21)	89,7	(0,31)	94,4	(5,61)	86,1	(-3,71)
MRTUCAP	58,3	57,2	(-1,91)	61,2	(5,01)	68,8	(18,01)	58,0	(-0,51)
TONS	22,942	27,004	(17,71)	31,571	(37,61)	32,897	(43,41)	33,153	(44,51)
MRTUCAP	86,7	84,3	(-13,01)	84,3	(-13,01)	90,0	(-7,11)	72,6	(-25,01)
KSF	18,110	19,959	(10,21)	21,348	(17,91)	21,784	(20,31)	23,035	(46,17,21)
KSF	39	40	(2,91)	41	(4,21)	42	(7,71)	46	(17,31)
BTUGSF	227,341,6	209,447,3	(-7,91)	218,730,0	(-3,81)	222,886,8	(-2,01)	186,596,3	(-17,91)
BTUGSF	104,577,1	92,156,8	(-11,91)	94,053,9	(-10,11)	86,925,9	(-16,91)	82,102,4	(-21,51)
BTUGSF	122,764,4	117,290,6	(-4,51)	124,676,0	(1,61)	135,960,9	(10,71)	104,493,9	(-14,91)
KSF	539	583		640		661		685	
KSF	2,041	2,063		2,114		2,161		2,208	
KSF	1,187	1,187		291		291		291	
KSF	375	375		401		410		410	
KSF	732	732		732		735		749	
KSF	6,548	6,511		6,726		7,020		7,293	
KSF	1,558	1,693		1,756		1,759		1,755	
KSF	4,774	6,402		7,341		7,402		8,280	
KSF	307	302		338		338		338	
KSF	104	108		110		95		84	
KSF	17	17		17		17		22	

1. Energy Consumption & PD
2. Thermal En Cons & PD
3. Electrical En Cons & PD
4. Resident Population & PD
5. Non-Resident Population & PD
6. Population Service** & PD
7. Enclave Population*** & PD
8. En Consumption/Pop Served & PD
9. En Consumption/Pop & PD
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity & PD
12. Elec Energy/Ton of Air Cond & PD
13. Heat Property Inventory (HPI) & PD
14. RPI/Effective Population
15. Energy Consumption/GSF & PD
16. Thermal En Consumption/GSF & PD
17. Electrical En Consumption/GSF & PD
18. HPI by Company

Training
Maintenance & Production
Research, Development & Testing
Storage
Other Covered Storage
Hospital & Medical
Administration
Bachelor Housing
Community Facilities
Family Housing
Operational Buildings
Utility Buildings
Other

**Population Served is the total Resident & Non-Resident Population
***En Pop in Resident + 1/3 Non-Resident
*PD is Percent Deviation from Base Year
FY 77 ECIP - Heating System Improvements - \$277,048 - Completed (estimated) June 1978

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION FT. SAN HOLISTON, TX. MACOM_EOBSCOM CLIMATIC REGION 6_HDD 1,570 CDD 2,924

UNITS/FY	75	76	77	78	79
MRTU	1,986,262	1,896,837	1,928,900	1,932,674	1,803,896
MRTU	715,055	606,988	655,836	599,129	559,208
MRTU	1,271,207	1,289,849	1,273,064	1,333,545	1,244,688
PEOPLE	9,160	10,342	11,446	12,174	12,749
PEOPLE	11,280	13,866	11,831	11,648	12,270
PEOPLE	20,440	24,208	23,277	23,822	25,019
PEOPLE	12,920	14,964	15,390	16,057	16,839
MRTUCAP	97.2	78.4	82.9	81.1	72.1
MRTUCAP	153.7	126.8	125.3	120.4	107.1
MRTUCAP	138.8	124.7	111.2	109.5	97.6
TONS	11,389	14,487	15,087	14,940	15,756
MRTUTION	94.9	89.0	84.4	89.3	79.0
RSF	10,819	10,934	10,940	11,038	10,320
RSFCAP	.84	.73	.71	.69	.61
BTUGSF	183,590	173,481	176,316	175,093	174,796
BTUGSF	66,093	55,514	59,948	54,279	54,187
BTUGSF	117,497	117,967	116,368	120,814	120,609
RSF	994	1,026	1,049	913	913
RSF	451	474	478	477	403
RSF	27	28	28	28	12
RSF	1,693	1,757	287	287	1,262
RSF	Not Available	Not Available	BASE	1,478	1,558
RSF	751	794	777	778	776
RSF	1,064	908	884	1,012	998
RSF	2,264	2,313	2,305	2,306	2,299
RSF	959	946	966	997	980
RSF	2,460	2,464	2,469	2,469	2,454
RSF	89	111	108	104	96
RSF	Not Available	87	79	77	75
RSF	Not Available	BASE	34	34	32

- 1. Energy Consumption @ PD
- 2. Thermal En Cons @ PD
- 3. Electrical En Cons @ PD
- 4. Resident Population @ PD
- 5. Non-Resident Population @ PD
- 6. Population Served** @ PD
- 7. Effective Population*** @ PD
- 8. En Consumption/Pop Served @ PD
- 9. En Consumption/Pop @ PD
- 10. Electric En Consumption/Resident Population
- 11. Insulated Air Cond Capacity @ PD
- 12. Elec Energy/TON of Air Cond @ PD
- 13. Heat Property Inventory (RPI) @ PD
- 14. RPI/Effective Population
- 15. Energy Consumption/GSF @ PD
- 16. Thermal En Consumption/GSF @ PD
- 17. Electrical En Consumption/GSF @ PD
- 18. RPI by Category

Training
Maintenance F. Production
Research, Development & Testing
Storage
Other Covered Storage
Hospital & Medical
Administration
Bachelor Housing
Community Facilities
Family Housing
Operational Buildings
Utility Buildings
Other

**PD as Percent Deviation from Base Year
***Population Served is the total Resident & Non-Resident Population
***En Pop in Resident + 1/3 Non-Resident

REMARKS
FY 76 ECIP - Weatherproofing and Solar Film - \$1,533,434 - Completed August 1978
FY 76 ECIP - Insulation/Ventilation - \$279,997 - Completed September 1979

UNITS/FY	75	76	77	78	79
MBTU	417,113	482,465 (15.7)	457,234 (9.6)	458,831 (10.0)	429,429 (3.0)
Thermal En Cons & PD	266,953	250,882 (-6.0)	278,321 (4.5)	256,946 (-3.7)	244,775 (-8.3)
Electrical En Cons & PD	150,160	231,583 (54.2)	178,913 (18.8)	201,885 (34.4)	184,654 (23.0)
Residence Population & PD	2,377	4,060 (70.8)	1,086 (-54.3)	1,954 (-17.8)	1,295 (-45.5)
Non-Resident Population & PD	2,306	2,503 (8.5)	2,403 (-4.2)	2,357 (-2.2)	2,477 (7.4)
Population Served*** & PD	4,683	6,563 (40.1)	3,489 (-25.5)	4,311 (-7.9)	3,772 (-19.5)
Effective Population*** & PD	3,146	4,894 (55.6)	1,887 (-40.0)	2,740 (-12.9)	2,121 (-32.6)
En Consumption/Pop Served & PD	89.1	73.5 (-17.5)	131.1 (47.1)	106.4 (19.5)	113.8 (27.8)
En Consumption/Pop & PD	132.6	98.6 (-25.6)	242.3 (82.8)	167.5 (-26.3)	202.5 (52.7)
MBTU/CAP	63.2	57.0 (-9.7)	184.2 (139.9)	103.3 (-63.6)	122.6 (125.7)
TONS	840	840 (0)	1,735 (106.5)	822 (-2.1)	823 (-2.0)
MBTU/TON	178.8	275.7 (54.2)	102.8 (-42.5)	245.6 (37.4)	224.4 (-25.5)
RSF	5,052	5,032 (-0.1)	5,088 (0.7)	5,065 (-0.3)	5,138 (1.7)
RSFCAP	1.61	1.03 (-35.7)	2.70 (67.9)	1.85 (15.1)	2.42 (50.9)
BTU/GSF	82,564	95,500 (15.7)	89,865 (-8.8)	90,888 (1.2)	83,579 (-8.3)
BTU/GSF	52,841	49,660 (-6.0)	54,818 (3.7)	50,730 (-4.0)	47,640 (-9.8)
BTU/GSF	29,723	45,840 (54.2)	35,047 (-17.9)	39,858 (34.1)	35,939 (-20.9)
RSF	822	822 (0)	636 (-22.6)	642 (0.7)	775 (20.9)
RSF	241	241 (0)	274 (13.7)	344 (42.7)	346 (0.6)
RSF	512	512 (0)	33 (-93.4)	33 (0)	11 (-97.3)
RSF	224	224 (0)	506 (226.3)	506 (0)	213 (-51.8)
RSF	193	193 (0)	500 (261.7)	263 (36.8)	196 (-17.4)
RSF	38	38 (0)	269 (605.3)	305 (36.3)	314 (3.3)
RSF	228	228 (0)	230 (0.4)	251 (9.7)	231 (-0.4)
RSF	319	319 (0)	41 (-87.2)	33 (-90.3)	29 (-91.2)
RSF	Not Available	Not Available	Not Available	Not Available	Not Available

1. Energy Consumption & PD
 2. Thermal En Cons & PD
 3. Electrical En Cons & PD
 4. Residence Population & PD
 5. Non-Resident Population & PD
 6. Population Served*** & PD
 7. Effective Population*** & PD
 8. En Consumption/Pop Served & PD
 9. En Consumption/Pop & PD
 10. Electric En Consumption/Resident Population
 11. Installed Air Cond Capacity & PD
 12. Elec Energy/Ton of Air Cond & PD
 13. Real Property Inventory (RPI) & PD
 14. RPI/Effective Population
 15. Energy Consumption/GSF & PD
 16. Thermal En Consumption/GSF & PD
 17. Electrical En Consumption/GSF & PD
 18. RPI by Category
- Training
Maintenance & Production
Research, Development & Testing
Storage
Other Covered Storage
Hospital & Medical
Administration
Bachelor Housing
Community Ft. Sites
Family Housing
Operational Buildings
Utility Buildings
Other

PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population *Eff Pop is Resident + 1/3 Non-Resident

REMARKS

U.S. Army -- ANALYSIS OF ENERGY CONSUMPTION -- INSTALLATION FT. LAJTON, GA. MACOM_F0838000 CLIMATIC REGION 2 HDD_5_678 CDD_60

UNITS/FY	76	76	77	78	78	79
1. Energy Consumption & PD	140,051	127,349 (-9.1)	123,551 (-11.8)	68,539 (-51.1)	68,539 (-51.1)	99,338 (-29.1)
2. Thermal En Cond & PD	61,623	58,581 (-4.9)	53,127 (-13.8)	21,268 (-65.5)	21,268 (-65.5)	26,822 (-7.5)
3. Electrical En Cond & PD	78,428	68,768 (-12.3)	70,424 (-10.2)	47,271 (-39.7)	47,271 (-39.7)	72,516 (-7.5)
4. Resident Population & PD	556	515 (-7.4)	464 (-16.5)	454 (-18.3)	454 (-18.3)	431 (-22.5)
5. Non-Resident Population & PD	63	1 (-98.4)	68 (-98.4)	55 (-12.7)	55 (-12.7)	50 (-20.6)
6. Population Serv** & PD	619	516 (-16.6)	532 (-14.1)	509 (-17.8)	509 (-17.8)	481 (-22.3)
7. Effective Population*** & PD	577	515 (-10.7)	487 (-15.6)	472 (-18.2)	472 (-18.2)	448 (-22.4)
8. En Consumption/Pop Served & PD	226.3	246.8 (9.1)	232.2 (2.6)	134.7 (-40.5)	134.7 (-40.5)	208.5 (-8.7)
9. En Consumption/ER Pop & PD	242.7	247.3 (1.9)	253.7 (4.5)	165.2 (-32.1)	165.2 (-32.1)	221.8 (-8.6)
10. Electric En Consumption/Resident Population	141.1	137.5 (-2.5)	151.8 (7.6)	104.2 (-26.2)	104.2 (-26.2)	168.2 (19.3)
11. Installed Air Cond Capacity & PD	78	28 (0)	78 (0)	78 (0)	78 (0)	78 (0)
12. Elec Energy/Ton of Air Cond & PD	1,005.5	881.6 (-12.3)	902.9 (-10.2)	606.3 (-39.7)	606.3 (-39.7)	923.7 (-7.5)
13. Real Property Inventory (RPI) & PD	983	948 (-3.6)	1,295 (31.7)	792 (-19.4)	792 (-19.4)	1,043 (6.1)
14. RPI/Effective Population	1.70	1.84 (8.0)	2.66 (56.1)	1.68 (-1.5)	1.68 (-1.5)	2.33 (36.8)
15. Energy Consumption/GSF & PD	142,473	134,334 (-5.7)	95,406 (-33.0)	86,539 (-39.3)	86,539 (-39.3)	95,243 (-33.2)
16. Thermal En Consumption/GSF & PD	62,689	61,794 (-1.4)	41,025 (-34.6)	26,828 (-57.2)	26,828 (-57.2)	25,716 (-39.0)
17. Electrical En Consumption/GSF & PD	79,784	72,540 (-9.1)	54,381 (-31.8)	59,711 (-25.2)	59,711 (-25.2)	69,527 (-12.9)
18. RPI by Category						
Training	179	183	281	319	319	302
Maintenance & Production	136	136	172	126	126	167
Research, Development & Testing						
Storage	27	6				
Other Covered Storage						
Hospital & Medical						
Administration						
Bachelor Housing						
Community Facilities						
Family Housing						
Operational Buildings						
Utility Buildings						
Other						
Net Available	1.6	1.3	8			9
Net Available Separately-Included Above	27	6				
Net Available	5	5	5	5	5	5
GSF	65	65	120	67	67	141
GSF	161	161	280	157	157	110
GSF	2	2	1			109
GSF	295	281	281	74	74	74
GSF	97	96	141	40	40	73
GSF	1.6	1.3	8			9

**Population Served is the total Resident & Non-Resident Population

**RPI Pop & Resident + 10 Non-Resident

**PD is Percent Deviation from Base Year

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - ET. LEWIS, VA. MACOM FORSCOM CLIMATIC REGION 3 HDD 5,339 CDD 110

UNITS/FY	76	77	78	79
1 Energy Consumption & PD	3,995,950	4,052,222	(1.4)	3,695,514
2 Thermal En Cons & PD	2,317,651	2,431,334	(4.9)	2,180,354
3 Electrical En Cons & PD	1,678,299	1,620,888	(3.4)	1,515,160
4 Resident Population & PD	34,273	34,515	(0.7)	33,650
5 Non-Resident Population & PD	3,238	3,707	(-0.8)	3,453
6 Population Serviced & PD	38,011	38,222	(-0.6)	37,125
7 Effective Population*** & PD	35,519	35,751	(-0.7)	30,843
8 En Consumption/Pop Serviced & PD	105.1	106.0	(0.8)	111.5
9 En Consumption/Resident Population	112.5	113.3	(0.8)	119.8
10 Electric En Consumption/Resident Population	48.9	46.9	(4.1)	51.0
11 Installed Air Cond Capacity & PD	615	465	(7.2)	177
12 Elec Energy/Ton of Air Cond & PD	4,044.1	3,642.4	(-9.9)	8,565.2
13 Real Property Inventory (RPI) & PD	19,847	19,860	(0.1)	19,774
14 Non-Resident Population	56	55	(-0.6)	64
15 Energy Consumption/GSF & PD	201,338	204,039	(1.3)	186,888
16 Thermal En Consumption/GSF & PD	116,776	122,424	(4.8)	110,284
17 Electrical En Consumption/GSF & PD	84,562	81,615	(3.5)	76,604
18 RPI by Category	394	384		384
Training	1,541	1,538		1,612
Maintenance & Production				
Research, Development & Testing				
Storage	2,532	79		79
Other Covered Storage		2,420		2,487
Hospital & Medical	625	595		647
Administration	1,031	1,003		988
Bachelor Housing	6,303	6,387		6,026
Community Facilities	1,531	1,522		1,602
Family Housing	5,617	5,476		5,682
Operational Buildings	137	147		167
Utility Buildings	131	108		126
Other	13	14		16

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Serviced** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Serviced & PD
- 9 En Consumption/Resident Population
- 10 Electric En Consumption/Resident Population
- 11 Installed Air Cond Capacity & PD
- 12 Elec Energy/Ton of Air Cond & PD
- 13 Real Property Inventory (RPI) & PD
- 14 Non-Resident Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPI by Category

*PD is Percent Deviation from Base Year **Population Serviced is the total Resident & Non Resident Population ***Eff Pop is Resident + 1/3 Non-Resident

FY 77 ECIP - Improve Lighting - \$166,218 - Completed (estimated) June 1978
 FY 77 Family Housing ECIP Improvements - \$1,015,000 - Completed (estimated) October 1978



UNITS/FY	76	78	77	78	79
MBTU	672,549	547,677	570,477	525,863	482,907
MBTU	504,412	388,851	410,744	368,405	328,377
MBTU	168,137	158,826	159,733	157,458	154,530
PEOPLE	2,573	2,076	1,522	1,689	1,480
PEOPLE	2,162	2,119	2,119	2,170	2,167
PEOPLE	4,735	4,195	3,641	3,859	3,647
PEOPLE	3,294	2,782	2,228	2,412	2,202
MBTUCAP	142.0	130.6	156.7	136.3	132.4
MBTUCAP	204.2	196.9	236.0	218.0	219.3
MBTUCAP	65.3	76.5	104.9	93.4	104.4
TONS	270	276	431	729	778
MBTU/TON	622.7	575.4	354.1	216.4	188.4
KSF	7,187	6,416	7,412	7,669	8,035
KSF/CAP	2.18	2.31	3.33	3.18	3.65
BTU/GSF	93,579	85,361	76,967	68,570	60,100
BTU/GSF	70,186	60,606	55,416	47,989	40,868
BTU/GSF	23,395	24,755	21,551	20,571	19,232
KSF	914	1,118	1,188	1,242	1,380
KSF	556	482	628	634	649
KSF	3	2	3	-	3
KSF	637	568	146	-	19
KSF	407	338	520	650	642
KSF	166	188	407	407	407
KSF	3,907	3,229	239	234	251
KSF	406	414	3,652	3,652	4,108
KSF	31	25	31	27	474
KSF	41	26	43	46	31
KSF	31	26	16	14	34
KSF	Not Available	BASE	10	6	-

1. Energy Consumption & PD
2. Thermal En Cons & PD
3. Electrical En Cons & PD
4. Resident Population & PD
5. Non-Resident Population & PD
6. Population Served** & PD
7. Effective Population*** & PD
8. En Consumption/Pop Served & PD
9. En Consumption/Eff Pop & PD
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity & PD
12. Elec Energy/Ton of Air Cond & PD
13. Real Property Inventory (RPI) & PD
14. RPI/Effective Population
15. Energy Consumption/GSF & PD
16. Thermal En Consumption/GSF & PD
17. Electrical En Consumption/GSF & PD
18. RPI by Category

- Training
- Maintenance & Production
- Research, Development & Testing
- Storage
- Other Covered Storage
- Hospital & Medical
- Administration
- Bachelor Housing
- Community Facilities
- Family Housing
- Operational Buildings
- Utility Buildings
- Other

**Population Served is the total Resident & Non-Resident Population
 ***Eff Pop is Resident + 1/3 Non-Resident
 **PD is Percent Deviation from Base Year

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION ET. MCHESSON, GA. MACOM_FOBSSON CLIMATIC REGION HDD 1,005 CDD 1,569

UNITS/FY	75	76	77	78	79
1. Energy Consumption & PD	681,923	713,750	800,899	766,670	765,259
2. Thermal En Cons & PD	320,504	321,188	384,432	360,335	367,325
3. Electrical En Cons & PD	361,419	392,562	416,467	406,335	397,934
4. Resident Population & PD	997	937	817	806	848
5. Non-Resident Population** & PD	7,437	4,953	5,494	5,650	6,109
6. Population Served*** & PD	8,429	5,890	6,311	6,456	6,957
7. Effective Population**** & PD	3,471	2,888	2,648	2,689	2,884
8. En Consumption/Pop Served & PD	80.9	121.2	126.9	118.8	110.0
9. En Consumption/Resident Population	196.4	275.8	302.4	285.1	265.3
10. Electric En Consumption/Resident Population	364.3	419.0	509.8	504.1	469.3
11. Installed Air Cond Capacity & PD	3,977	3,995	4,044	4,151	4,151
12. Elec Energy/Ton of Air Cond & PD	90.9	98.3	103.0	97.9	95.9
13. Real Property Inventory (RPI) & PD	8,607	8,611	8,610	6,769	8,886
14. RPI/Effective Population	2.48	3.33	3.25	2.52	3.08
15. Energy Consumption/GSF & PD	79,279	82,888	93,020	113,262	86,120
16. Thermal En Consumption/GSF & PD	37,238	37,300	44,650	53,233	41,337
17. Electrical En Consumption/GSF & PD	41,991	45,588	48,370	60,029	44,783
18. RPI by Category	49	49	49	49	70
Training					
Maintenance & Production					
Research, Development & Testing					
Storage					
Other Covered Storage					
Hospital & Medical Administration					
Bachelor Housing					
Community Facilities					
Family Housing					
Operational Buildings					
Utility Buildings					
Other					
Not Available					
BASE					
Net Available Separately Included Above					
BASE					
Other Covered Storage					
Hospital & Medical Administration					
Bachelor Housing					
Community Facilities					
Family Housing					
Operational Buildings					
Utility Buildings					
Other					

**Population Served is the total Resident & Non Resident Population
 ***Eff Pop is Resident + 1/3 Non-Resident
 ****PD is Percent Deviation from Base Year

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION FT. MEADE, MD MACOM FORSCOM CLIMATIC REGION 3 HDD4,753 CDD 1,039

UNITS/FY	75	76	77	78	79
MRTU	4,165,633	3,931,432	4,271,407	4,149,468	4,021,583
MRTU	1,624,605	1,316,687	1,665,849	1,327,830	1,112,604
MRTU	2,541,068	2,594,745	2,605,558	2,821,638	2,895,538
PEOPLE	22,025	18,901	18,901	17,476	17,372
PEOPLE	23,191	28,033	28,033	32,076	27,332
PEOPLE	45,216	46,934	46,934	49,512	44,704
PEOPLE	29,755	28,245	28,245	28,138	26,483
MRTUCAP	92.1	83.4	91.0	83.8	90.0
MRTUCAP	140.0	139.2	151.2	147.5	151.9
MRTUCAP	115.4	137.3	137.9	161.8	166.7
TONS	6,971	9,288	9,228	9,228	9,228
MRTULTON	364.5	273.4	282.4	305.8	313.8
KSF	12,645	12,645	11,071	10,555	10,755
KSFICAP	42	45	39	38	41
BTUGSF	329,430.8	310,908.0	385,819.4	393,128.2	373,926.6
BTUGSF	128,478.1	105,708.7	150,469.6	125,801.0	104,699.5
BTUGSF	200,952.8	205,199.3	235,349.8	267,327.1	269,227.2
KSF	637	437	382	543	700
KSF	891	891	702	655	460
KSF	1,145	1,145	75	26	16
KSF	410	410	92	682	823
KSF	1,264	1,264	1,363	848	853
KSF	3,417	3,417	2,884	2,675	2,445
KSF	977	977	885	859	1,168
KSF	1,732	1,732	3,532	3,731	3,700
KSF	173	173	173	162	162
KSF	189	180	180	78	78
KSF	Not Available	Not Available	43	19	22

- 1. Energy Consumption & PD
- 2. Thermal En Core & PD
- 3. Electrical En Core & PD
- 4. Resident Population & PD
- 5. Non-Resident Population & PD
- 6. Population Served** & PD
- 7. Effective Population*** & PD
- 8. En Consumption/Pop Served & PD
- 9. En Consumption/Resident Pop & PD
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity & PD
- 12. Elec Energy/Ton of Air Cond & PD
- 13. Heat Property Inventory (RPI) & PD
- 14. RPI/Effective Population
- 15. Energy Consumption/GSF & PD
- 16. Thermal En Consumption/GSF & PD
- 17. Electrical En Consumption/GSF & PD
- 18. RPI by Category

*PD is Percent Deviation from Base Year
 **Population Served is the total Resident & Non-Resident Population
 ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS
 FY 76 ECIP - Insulation and Weatherstripping - \$138,537 - Completed January 1977
 FY 76 ECIP - Energy Monitoring/Control System \$792,892 - Completed September 1978
 FY 77 ECIP - Insulation - \$638,582 - Completed (estimated) June 1978

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION OAKDALE SPT. CTR., PA MACOM FORSCOM CLIMATIC REGION HDD 5,930 COD 647

UNITS/IFY	76	78	77	78	78	78
MRTU	298,831	282,000 (-5.6)	276,357 (-7.5)	284,750 (-4.7)	274,325 (-8.2)	
MRTU	182,287	172,020 (-5.6)	165,815 (-9.0)	173,698 (-4.7)	170,082 (-6.7)	
MRTU	116,544	109,980 (-5.6)	110,542 (-5.3)	111,052 (-4.7)	104,243 (-10.6)	
PEOPLE	435	480 (-10.3)	531 (-22.1)	527 (-21.1)	510 (-17.2)	
PEOPLE	1,444	1,380 (-4.2)	1,318 (-8.5)	1,358 (-5.8)	1,268 (-12.0)	
PEOPLE	1,826	1,860 (-0.9)	1,849 (-1.4)	1,885 (-0.5)	1,778 (-5.2)	
PEOPLE	915	940 (-2.7)	970 (-6.0)	180 (-7.1)	933 (-2.0)	
MRTU/CAP	159.3	151.6 (-4.8)	149.5 (-6.2)	151.1 (-5.2)	154.3 (-3.1)	
MRTU/CAP	326.6	300.0 (-8.1)	284.9 (-12.8)	290.6 (-11.0)	294.0 (-10.0)	
MRTU/CAP	267.9	229.1 (-14.5)	208.2 (-22.3)	210.7 (-21.3)	204.4 (-23.7)	
TONS	854	823 (-3.6)	791 (-7.4)	815 (-4.6)	867 (-1.5)	
MRTU/TON	1.087	1.080 (-0.6)	1.072 (-0.7)	1.132 (-4.1)	1.078 (-0.8)	
KSF/CAP	1.19	1.15 (-3.3)	1.11 (-7.0)	1.16 (-2.8)	1.161 (-2.7)	
BTU/GSF	274,913	261,111 (-5.0)	257,796 (-6.2)	251,546 (-8.5)	254,476 (-7.4)	
BTU/GSF	167,697	159,278 (-5.0)	154,678 (-7.8)	153,443 (-8.5)	157,776 (-5.9)	
BTU/GSF	107,216	101,833 (-5.0)	103,118 (-3.8)	98,103 (-8.5)	96,700 (-9.8)	
KSF	401	522	522	572	525	
KSF	146	187	187	192	173	
KSF	19	4	4	4	4	
KSF	Not Available	BASE	74	78	73	
KSF	Not Available	BASE	64	65	65	
KSF	4.9	14.0	52	52	53	
KSF	62	137	138	148	148	
KSF	130	23	23	23	21	
KSF	Not Available	BASE	13	12	13	
KSF	Not Available	BASE	1	1	1	

- Energy Consumption & PD
- Thermal En Cons & PD
- Electrical En Cons & PD
- Resident Population & PD
- Non-Resident Population & PD
- Population Served** & PD
- Effective Population*** & PD
- En Consumption/Pop Served & PD
- En Consumption/Pop & PD
- Electric En Consumption/Resident Population
- Installed Air Cond Capacity & PD
- Electric Energy/Ton of Air Cond & PD
- Heat Property Inventory (RPI) & PD
- RPI/Effective Population
- Energy Consumption/GSF & PD
- Thermal En Consumption/GSF & PD
- Electrical En Consumption/GSF & PD
- RPI by Category

Training
 Maintenance & Production
 Research, Development & Testing
 Storage
 Other Covered Storage
 Hospital & Medical
 Administration
 Bachelor Housing
 Community Facilities
 Family Housing
 Operational Buildings
 Utility Buildings
 Other

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS No Report received for FY76 so data appearing for FY76 is estimated.

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION FT. ORD., CA. MACOM FORSCOM CLIMATIC REGION 4 HDD 3,812 CDD 37

UNITS/FY	76	78	77	79	79
ABTU	2,766,790	2,790,838	2,820,494	2,574,892	2,757,786
ABTU	1,632,403	1,816,045	1,776,912	1,467,689	1,511,939
ABTU	1,134,383	974,793	1,043,582	1,107,203	1,183,847
PEOPLE	27,923	25,913	25,468	26,600	23,879
PEOPLE	6,535	33,349	7,255	9,616	9,184
PEOPLE	34,458	28,378	32,723	34,016	33,063
PEOPLE	30,101	84.1	27,886	27,605	26,840
MBTU/CAP	80.3	84.1	86.2	75.7	83.4
MBTU/CAP	92.9	98.3	101.1	93.3	102.4
MBTU/CAP	40.6	37.6	41.0	45.4	49.7
TONS	1,193	1,227	592	511	1,530
MBTU/TON	950.9	716.3	1,762.8	2,085.1	1,751
KSF	17,177	20,971	16,175	16,518	17,113
KSF	161,025	133,081	174,376	155,884	167,152
KSF	95,024	86,503	109,856	88,854	91,857
KSF	66,041	36,278	64,518	67,010	69,295
KSF	1,204	1,262	1,222	1,206	1,217
KSF	731	731	822	897	957
KSF	43	43	50	38	38
KSF	1,074	1,100	993	997	991
KSF	527	527	565	565	565
KSF	887	4,866	830	888	900
KSF	5,218	6,990	4,916	5,078	4,972
KSF	1,458	1,471	1,422	1,487	1,490
KSF	5,610	5,583	4,888	4,999	5,581
KSF	768	231	233	217	224
KSF	48	74	65	34	72
KSF	Not Available	Not Available	112	116	56

- 1. Energy Consumption & PD
- 2. Thermal En Conv & PD
- 3. Electrical En Conv & PD
- 4. Residential Population & PD
- 5. Non-Resident Population & PD
- 6. Population Serviced** & PD
- 7. Effective Population*** & PD
- 8. En Consumption/Pop Serviced & PD
- 9. En Consumption/EN Pop & PD
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity & PD
- 12. Elec Energy/Ton of Air Cond & PD
- 13. Real Property Inventory (RPI) & PD
- 14. RPI/Effective Population
- 15. Energy Consumption/GSF & PD
- 16. Thermal En Consumption/GSF & PD
- 17. Electrical En Consumption/GSF & PD
- 18. RPI by Category

**Pop is Percent Deviation from Base Year
 ***Population Served is the total Resident & Non-Resident Population
 **Eff Pop is Resident + 1/3 Non-Resident

REMARKS Includes Ft MacArthur CA data from FY75 and FY76 when they were reported separately. Ft Ord was transferred from TRADOC to FORSCOM as of FY76.

FY 77 Family Housing ECIP Improvements - \$1,046,907 - Completed (estimated) October 1978

UNITS/TYPE	76	76	77	78	78	78			
MBTU	1,367,892	1,368,102	1,604,638	(17.3)	1,590,012	(16.2)	1,888,177	(+38)	
MBTU	793,378	752,457	802,319	(-1.1)	747,306	(-5.8)	717,506	(-10)	
MBTU	574,514	613,645	802,319	(+39.7)	842,306	(+46.7)	1,170,669	(+104)	
PEOPLE	18,009	9,403	10,072	(-44.1)	12,649	(+29.8)	14,239	(+20.9)	
PEOPLE	7,407	5,092	(-31.2)	10,772	(+45.4)	14,075	(+90.0)	(+3.7)	
PEOPLE	25,416	14,495	(-43.0)	20,844	(-18.0)	26,724	(+5.1)	(-13.8)	
PEOPLE	20,478	11,100	(-45.8)	13,663	(-33.3)	17,341	(-15.3)	(-18.0)	
MBTU/CAP	53.8	94.4	(+75.4)	76.9	(+43.0)	59.5	(+10.5)	60.0	
MBTU/CAP	66.8	123.2	(+84.5)	117.4	(+75.8)	91.7	(+37.2)	112.4	(+68.2)
MBTU/CAP	31.9	65.5	(+105.2)	79.7	(+149.7)	66.6	(+108.9)	87.2	(+157.7)
TONS	8,482	8,905	(+5.0)	9,699	(+4.3)	11,782	(+38.9)	19,911	(+135)
MBTU/TON	67.7	69.1	(+2.1)	82.7	(+22.1)	71.5	(+5.6)	58.8	(-13.2)
KSF	8,551	9,288	(+8.6)	10,071	(+17.8)	10,288	(+20.3)	12,037	(+40.8)
KSF/CAP	42	84	(+100.4)	74	(+76.5)	59	(+42.1)	72	(+17.6)
BTU/GSF	159,969	147,298	(-7.9)	159,332	(-0.4)	154,550	(-3.4)	156,864	(-1.9)
BTU/GSF	92,782	81,014	(-12.7)	79,666	(-14.1)	72,639	(-21.7)	59,608	(-35.8)
BTU/GSF	67,187	66,284	(-1.3)	79,666	(+18.6)	81,911	(+21.9)	97,256	(+44.8)
KSF	325	529	(+61.2)	1,073	(+202.8)	535	(+20.6)	609	(+13.5)
KSF	978	1,085	(+11.1)	860	(-13.8)	914	(+5.8)	950	(+8.2)
KSF	1,221	1,149	(-5.9)	22	(-98.2)	22	(-0)	20	(-9.1)
KSF	Not Available	Separately Included Above	BASE	662	1,158	1,083	1,083	1,083	
KSF	375	375	(+0)	317	322	324	324	324	
KSF	168	168	(+0)	368	376	461	461	461	
KSF	3,531	4,026	(+14.1)	1,180	2,831	3,383	3,383	3,383	
KSF	829	967	(+16.3)	927	937	937	937	937	
KSF	442	479	(+8.4)	1,117	1,612	1,612	1,612	1,612	
KSF	672	507	(-24.7)	516	519	519	519	519	
KSF	Not Available	BASE	2	144	17	64	64	64	
KSF	Not Available	BASE	2,985	1,039	1,039	625	625	625	

1. Energy Consumption & PD
2. Thermal En Cons & PD
3. Electrical En Cons & PD
4. Resident Population & PD
5. Non-Resident Population & PD
6. Population Served** & PD
7. Effective Population*** & PD
8. En Consumption/Pop Served & PD
9. En Consumption/ER Pop & PD
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity & PD
12. Elec Energy/Ton of Air Cond & PD
13. Heat Property Inventory (HP) & PD
14. HP/Effective Population
15. Energy Consumption/GSF & PD
16. Thermal En Consumption/GSF & PD
17. Electrical En Consumption/GSF & PD
18. HP by Category

Training
 Maintenance & Production
 Research, Development & Testing
 Storage
 Other Covered Storage
 Hospital & Medical
 Administration
 Bachelor Housing
 Community Facilities
 Family Housing
 Operations Buildings
 Utility Buildings
 Other

**Population Served is the total Resident & Non-Resident Population
 ***EN Pop is Resident + 1/3 Non-Resident

REMARKS Ft Polk was transferred from TRADOC to FORSCOM as of FY76.

UNITS/FY	76	78	77	79	79
MBTU	1,960,160	1,969,977	1,899,419	1,601,632	1,513,528
MBTU	1,899,550	1,908,625	1,841,500	1,555,175	1,469,100
MBTU	60,610	61,352	57,919	56,457	49,428
PEOPLE	8,805	8,908	9,499	9,812	9,893
PEOPLE	3,263	3,243	2,506	2,498	2,483
PEOPLE	12,068	12,151	13,005	12,310	12,376
PEOPLE	9,893	9,989	10,434	10,645	10,387
MBTUCAP	162.4	162.1	158.2	170.1	172.2
MBTUCAP	198.1	197.2	182.0	150.5	122.2
MBTUCAP	6.9	6.9	6.0	5.8	5.0
TONS	210	210	220	220	247
KSF	288.6	292.2	263.3	256.6	200.1
KSF	7,600	7,600	7,616	7,616	7,751
KSPICAP	.77	.76	.73	.72	.63
BTUGSF	257,916	259,208	249,398	210,298	195,269
BTUGSF	249,941	251,135	241,794	202,885	188,892
BTUGSF	7,975	8,073	7,604	7,913	6,377
KSF	26	26	26	26	28
KSF	700	700	700	700	670
KSF	-	-	-	-	-
KSF	1,330	1,330	1,028	1,028	95
Other Covered Storage	17	17	33	33	35
Hospital & Medical Administration	186	186	186	186	188
Bachelor Housing	1,287	1,287	1,287	1,287	1,199
Community Facilities	582	582	582	582	557
Family Housing	2,953	2,953	2,953	2,953	2,957
Operational Buildings	233	231	231	231	231
Utility Buildings	284	284	284	284	616
Other	BASE	BASE	BASE	BASE	BASE

Population Served in the total Resident & Non-Resident Population
 **Eff Pop is Resident + 1/2 Non-Resident

REMARKS
 FY 76 ECIP - Insulation, Storm and Heating Controls - \$991,077 - Completed September 1977
 FY 77 Family Housing ECIP Improvements - \$385,068 - Completed (estimated) October 1978
 FY 78 ECIP - Insulation and Heating Controls - \$1,971,428 - Completed (estimated) December 1979

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - FT. RILEY, KS - MACOM - EDRSCOR - CLIMATIC REGION 3 - HDD 5,306 CDD 1,503

UNITS/FY	76	77	78	79	80				
1. Energy Consumption & PD	2,572,161	2,445,735	-5.1	2,880,480	11.8	3,148,302	22.2	3,246,637	+26.1
2. Thermal En. Cons & PD	1,649,384	1,516,356	-8.1	1,526,655	-7.4	1,637,118	-0.7	1,688,252	+2.4
3. Electrical En. Cons & PD	927,777	929,379	+0.2	1,353,825	+45.9	1,511,184	+62.9	1,558,385	+468.1
4. Resident Population & PD	21,147	18,911	-10.6	24,068	+13.8	24,589	+16.3	19,020	-10.1
5. Non-Resident Population & PD	8,071	7,735	-4.2	6,999	-13.3	6,557	-18.8	7,802	+3.3
6. Population Served** & PD	29,218	26,646	-8.8	31,067	+6.3	31,146	+0.2	26,822	-15.2
7. Effective Population*** & PD	23,837	21,489	-9.9	26,401	+10.8	26,775	+1.4	21,621	-19.3
8. En. Consumption/Pop Served & PD	108.1	91.8	-16.4	109.1	+13.1	103.3	-7.2	121.0	+17.4
9. En. Consumption/Pop Served & PD	108.1	113.8	+5.3	109.1	+0.9	117.6	+8.8	150.2	+38.9
10. Electric En. Consumption/Resident Population	43.9	49.1	+12.0	56.2	+28.2	61.5	+40.1	81.9	+36.8
11. Installed Air Cond Capacity & PD	8,140	8,628	+6.0	13,574	+66.8	13,118	-61.2	13,126	+0.0
12. Elec. Energy/ft of Air Cond & PD	113.9	107.7	-5.5	99.7	-12.5	115.2	+1.1	118.7	+4.2
13. Fuel Inventory (Mgal) & PD	13,775	13,733	-0.3	15,941	+15.7	14,769	-7.2	15,323	+4.5
14. Non-Resident Population	58	64	+10.6	60	+4.5	55	-4.5	71	+27.6
15. Energy Consumption/GSF & PD	187,090	178,092	-4.8	180,696	+3.4	213,170	+13.9	211,880	-13.3
16. Thermal En. Consumption/GSF & PD	119,738	110,417	-7.6	95,769	-20.0	110,848	-7.4	110,178	-8.0
17. Electrical En. Consumption/GSF & PD	67,352	67,675	+0.5	84,927	+26.1	102,322	+51.9	101,702	-51.9
18. MW by Category									
Training	644	641	-0.4	922	+43.4	736	-20.5	767	+4.2
Maintenance & Production	1,198	1,161	-3.1	1,145	-1.7	1,142	-0.3	1,541	+33.2
Research, Development & Testing	-	-	-	-	-	-	-	-	-
Storage	736	736	0.0	22	-3.0	80	+10.8	22	-27.5
Other Covered Storage	-	-	-	-	-	-	-	-	-
Hospital & Medical	463	460	-0.7	713	+53.7	637	-12.3	707	+6.0
Administration	385	535	+38.1	457	+19.8	435	-4.8	470	+29.6
Bachelor Housing	4,011	3,757	-6.3	518	-12.8	515	-0.6	535	+3.3
Community Facilities	1,270	1,284	+1.1	3,840	+301.6	4,118	+72.0	4,118	0.0
Family Housing	4,565	4,758	+4.4	1,299	-28.3	1,222	-6.2	1,281	+7.9
Operational Buildings	423	321	-24.3	6,637	+1,558.8	5,352	-20.8	5,352	0.0
Utility Buildings	80	80	0.0	48	-40.0	362	+352.0	387	+7.2
Other	Not Available	Not Available	-	Not Available	-	Not Available	-	Not Available	-

- 1. Energy Consumption & PD
- 2. Thermal En. Cons & PD
- 3. Electrical En. Cons & PD
- 4. Resident Population & PD
- 5. Non-Resident Population & PD
- 6. Population Served** & PD
- 7. Effective Population*** & PD
- 8. En. Consumption/Pop Served & PD
- 9. En. Consumption/Resident Population
- 10. Electric En. Consumption/Resident Population
- 11. Installed Air Cond Capacity & PD
- 12. Elec. Energy/ft of Air Cond & PD
- 13. Fuel Inventory (Mgal) & PD
- 14. Non-Resident Population
- 15. Energy Consumption/GSF & PD
- 16. Thermal En. Consumption/GSF & PD
- 17. Electrical En. Consumption/GSF & PD
- 18. MW by Category

PD = Percent Deviation from Base Year
 **Population Served is the total Resident & Non-Resident Population
 ***Eff Pop is Resident + 1/3 Non-Resident

FY 76 ECIP - Insulation, Storms and Mechanical System Alterations - \$669,207 - Completed November 1977
 FY 77 ECIP - Insulation, Storms and Mechanical System Alterations - \$2,111,464 - Completed (estimated) June 1978
 FY 77 Family Housing ECIP Improvements - \$672,055 - Completed (estimated) October 1978

UNITS/Y	76	78	77	78	78	78			
MRTU	1,486,418	1,528,207	(2.81)	1,479,150	(- 0.51)	1,417,191	(- 4.71)	1,524,952	(+ 3.31)
MRTU	817,530	809,950	(- 0.91)	789,158	(- 2.91)	722,768	(-11.61)	859,574	(+ 5.11)
MRTU	668,888	718,257	(7.41)	709,992	(- 1.11)	694,423	(- 2.11)	675,378	(- 2.81)
PEOPLE	7,155	6,926	(- 3.21)	6,936	(+ 0.11)	6,669	(- 3.81)	6,669	(- 0.01)
PEOPLE	6,917	8,697	(25.71)	7,784	(12.51)	5,057	(-26.91)	5,121	(-16.01)
PEOPLE	14,072	15,621	(11.01)	14,720	(- 2.31)	11,726	(-26.71)	11,790	(+ 0.51)
PEOPLE	9,461	9,823	(3.81)	9,531	(- 2.91)	8,355	(-13.71)	8,376	(+ 0.21)
MRTUCAP	1,051.6	97.8	(- 7.41)	100.5	(+ 4.91)	120.8	(+ 14.41)	130.2	(+ 7.81)
MRTUCAP	157.1	155.6	(- 1.01)	155.2	(- 1.21)	169.6	(+ 7.91)	183.2	(+ 15.61)
MRTUCAP	93.5	103.7	(+ 10.91)	102.4	(- 1.31)	104.1	(+ 1.71)	101.3	(- 2.81)
TONS	2,989	2,989	(0.01)	3,133	(+ 4.81)	3,127	(- 0.21)	3,143	(+ 0.51)
MRTUTON	222.4	240.3	(8.01)	226.6	(- 2.91)	222.1	(- 2.01)	214.9	(- 3.31)
KSF	8,660	7,515	(-13.21)	7,723	(+10.81)	7,920	(+ 2.51)	7,562	(-4.51)
KSF	.92	.76	(-16.41)	.81	(+11.51)	.95	(+ 16.61)	.901	(- 5.41)
BTU/GSF	171,642	203,354	(18.51)	191,525	(- 5.81)	178,938	(- 6.31)	202,982	(+ 18.31)
BTU/GSF	94,403	107,778	(14.21)	99,593	(- 1.81)	91,258	(- 8.31)	113,670	(+ 15.41)
BTU/GSF	77,239	95,576	(23.71)	91,932	(- 3.81)	87,680	(- 4.51)	89,312	(- 1.81)
KSF	467	419	(- 10.31)	505	(+ 20.31)	479	(- 4.71)	484	(+ 1.11)
KSF	529	516	(- 2.41)	500	(- 3.41)	568	(+ 11.61)	497	(- 2.11)
KSF	156	238	(+ 52.51)	359	(+ 121.11)	359	(- 0.01)	359	(- 0.01)
KSF	778	467	(- 40.31)	12	(- 98.11)	12	(- 100.01)	19	(+ 57.01)
KSF	Not Available	Not Available	Not Available	BASE	BASE	BASE	BASE	BASE	BASE
KSF	556	659	(+ 18.31)	682	(+ 4.81)	664	(- 2.61)	666	(+ 0.31)
KSF	850	776	(- 8.71)	795	(- 7.71)	849	(+ 6.81)	774	(- 2.61)
KSF	1,284	928	(- 27.11)	1,012	(- 21.61)	967	(- 5.01)	979	(+ 1.21)
KSF	1,058	845	(- 20.11)	851	(- 1.71)	831	(- 2.41)	852	(+ 2.41)
KSF	2,603	2,328	(- 10.61)	2,339	(+ 0.51)	2,458	(+ 5.11)	2,339	(- 5.21)
KSF	379	250	(- 33.81)	180	(- 49.51)	208	(+ 15.61)	102	(- 51.01)
KSF	50	74	(+ 48.01)	51	(+ 2.01)	85	(+ 66.01)	85	(+ 0.01)
KSF	Not Available	Not Available	Not Available	BASE	BASE	BASE	BASE	BASE	BASE

1. Energy Consumption @ PD
2. Thermal En Cons @ PD
3. Electrical En Cons @ PD
4. Resident Population @ PD
5. Non-Resident Population @ PD
6. Population Served** @ PD
7. Effective Population*** @ PD
8. En Consumption/Pop. Served @ PD
9. En Consumption/En Pop @ PD
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity @ PD
12. Elec Energy/Ton of Air Cond @ PD
13. Heat Property Inventory @ PD @ PD
14. Repetitive Population
15. Energy Consumption/GSF @ PD
16. Thermal En Consumption/GSF @ PD
17. Electrical En Consumption/GSF @ PD
18. WPI by Category

Training
Maintenance & Production
Research, Development & Testing
Storage
Other Covered Storage
Hospital & Medical
Administration
Bachelor Housing
Community Facilities
Family Housing
Operational Buildings
Utility Buildings
Other

**Population Served is the total Resident & Non-Resident Population
***En Pop is Resident + IG Non-Resident

REMARKS

	75	76	77	78	79
UNITS/FY					
MBTU	1,255,842	907,267	938,119	862,719	888,423
MBTU	828,856	598,797	619,459	586,649	568,591
MBTU	426,986	308,470	318,950	276,070	319,832
PEOPLE	8,511	3,035	2,786	2,391	2,382
PEOPLE	7,490	3,782	3,853	3,797	3,730
PEOPLE	16,301	6,817	6,639	6,190	6,112
PEOPLE	11,108	4,296	4,070	3,659	3,623
MBTU/CAP	143.3	133.1	142.3	139.4	143.4
MBTU/CAP	113.0	211.1	230.5	235.8	245.1
MBTU/CAP	50.2	101.6	114.5	115.4	134.3
TONS	2,225.2	2,217	2,313	2,522	2,542
TONS	191.9	139.1	137.9	109.5	125.8
TONS	6,380	4,503	4,463	4,721	4,667
TONS	1,05	1,05	1,15	1,29	1,29
TONS	190,857	201,480	201,183	182,740	190,363
TONS	125,966	132,977	132,781	124,265	121,832
TONS	64,891	68,303	68,402	58,477	68,530
TONS	1,288	1,206	1,315	1,362	1,376
TONS	595	553	600	604	604
TONS	390	327	4	4	4
TONS	90	48	311	330	331
TONS	638	604	591	584	610
TONS	363	367	352	359	338
TONS	520	378	380	375	375
TONS	2,632	987	987	987	987
TONS	36	36	26	24	10
TONS	28	16	15	10	10

1. Energy Consumption & PD
 2. Thermal En Con & PD
 3. Electrical En Conv & PD
 4. Resident Population & PD
 5. Non-Resident P. Substn & PD
 6. Population Serv** & PD
 7. Effective Population*** & PD
 8. En Consumption/Pop Served & PD
 9. En Consumption/En Pop & PD
 10. Electric En Consumption/Resident Population
 11. Installed Air Cond Capacity & PD
 12. Elec Energy/Ton of Air Cond & PD
 13. Heat Property Inventory (RPA) & PD
 14. InPictive Population
 15. Energy Consumption/GSF & PD
 16. Thermal En Consumption/GSF & PD
 17. Electrical En Consumption/GSF & PD
 18. RPI by Category

Training
 Maintenance & Production
 Research, Development & Testing
 Storage
 Other Covered Storage
 Hospital & Medical
 Administration
 Recreational Housing
 Community Facilities
 Family Housing
 Operational Buildings
 Utility Buildings
 Other

**Population Served in the total Resident & Non-Resident Population
 ***En Pop in Resident + 1/3 Non-Resident
 *PD in Percent Deviation from Base Year

REMARKS FY75 data includes Selfridge Area Support Center, MI, which was a sub-activity of Ft Sheridan at that time. As of FY76, Selfridge was transferred to DARCOM.

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - VANCOUVER BARRACKS, WA - MACOM - FORSCOM - CLIMATIC REGION 3 - HDD 4,792 CDD 300

UNITS/FY	76	77	78	79
1 Energy Consumption & PD	52,181	51,235	47,546	48,902
2 Thermal En Cons & PD	40,702	34,328	30,430	29,831
3 Electrical En Cons & PD	11,479	16,907	17,116	19,071
4 Resident Population & PD	45	40	28	106
5 Non-Resident Population & PD	73	90	120	33
6 Population Served*** & PD	118	130	148	139
7 Effective Population*** & PD	69	70	68	117
8 En Consumption/Pop Served & PD	442.2	394.1	321.2	351.8
9 En Consumption/Pop & PD	736.2	731.9	699.2	417.9
10 Electric En Consumption/Resident Population	255.1	422.7	611.3	179.9
11 Installed Air Cond Capacity & PD	-	-	-	-
12 Elec Energy/Ton of Air Cond & PD	645	645	644	1,082
13 Real Property Inventory (RPI) & PD	9,315	9,231	9,471	9,235
14 RPI/Effective Population	80,901	79,434	73,839	45,196
15 Energy Consumption/GSF & PD	63,104	53,222	47,251	27,570
16 Thermal En Con. unpop/GSF & PD	17,797	26,212	47,311	17,676
17 Electrical En Consumption/GSF & PD	2,68	2,68	2,68	4,00
18 RPI by Category				
Training				
Maintenance & Production				
Research, Development & Testing				
Storage				
Other Covered Storage				
Hospital & Medical				
Administration				
Bachelor Housing				
Community Facilities				
Family Housing				
Operational Buildings				
Utility Buildings				
Other				
Not Available				
Population Served is the total Resident & Non-Resident Population				
**PD is Percent Deviation from Base Year				
***En Pop is Resident + 1/3 Non-Resident				

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Served*** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/Pop & PD
- 10 Electric En Consumption/Resident Population
- 11 Installed Air Cond Capacity & PD
- 12 Elec Energy/Ton of Air Cond & PD
- 13 Real Property Inventory (RPI) & PD
- 14 RPI/Effective Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Con. unpop/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPI by Category

REMARKS

UNITS/FY	75	76	77	78	79
1. Energy Consumption & PD	2,248,103	2,017,308	1,828,570	1,832,220	1,832,431
2. Thermal En Cons & PD	2,232,675	2,014,025	1,825,925	1,831,200	1,829,925
3. Electrical En Cons & PD	15,428	3,283	2,645	1,020	2,506
4. Resident Population & PD	5,833	6,996	6,454	6,651	6,832
5. Non-Resident Population & PD	779	731	729	746	727
6. Population Served*** & PD	6,612	7,727	7,183	7,377	7,559
7. Effective Population**** & PD	6,093	7,240	6,697	6,880	7,184
8. En Consumption/Pop Served & PD	340.0	261.1	254.6	248.4	239.5
9. En Consumption/EN Pop & PD	368.9	278.6	273.0	266.4	255.4
10. Electric En Consumption/Resident Population	2.6	5	4	2	4
11. Installed Air Cond Capacity & PD	293	342	342	342	342
12. Elec Energy/Ton of Air Cond & PD	52.7	9.6	7.7	4.4	20.2
13. Real Property Inventory (RPI) & PD	5,621	5,615	5,615	5,615	5,615
14. RPI/Effective Population	.92	.78	.84	.82	.82
15. Energy Consumption/GSF & PD	399,947	359,271	325,658	326,397	328,118
16. Thermal En Consumption/GSF & PD	397,202	358,686	325,187	326,126	327,724
17. Electrical En Consumption/GSF & PD	2,745	595	671	273	384
18. RPI by Category					
Training	1	1	1	1	4
Maintenance & Production	756	754	754	754	788
Research, Development & Testing	33	33	33	33	36
Storage	532	525	90	90	90
Other Covered Storage					
Hospital & Medical					
Administration	161	161	161	161	160
Bachelor Housing	126	135	135	135	245
Community Facilities	976	973	973	973	1,365
Family Housing	355	356	356	356	412
Operational Buildings	2,394	2,394	2,394	2,394	2,385
Utility Buildings	35	33	33	33	33
Other	252	246	246	246	264
Not Available					
BASE					
Not Available Separately Included Above					
BASE					

- 1. Energy Consumption & PD
- 2. Thermal En Cons & PD
- 3. Electrical En Cons & PD
- 4. Resident Population & PD
- 5. Non-Resident Population & PD
- 6. Population Served*** & PD
- 7. Effective Population**** & PD
- 8. En Consumption/Pop Served & PD
- 9. En Consumption/EN Pop & PD
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity & PD
- 12. Elec Energy/Ton of Air Cond & PD
- 13. Real Property Inventory (RPI) & PD
- 14. RPI/Effective Population
- 15. Energy Consumption/GSF & PD
- 16. Thermal En Consumption/GSF & PD
- 17. Electrical En Consumption/GSF & PD
- 18. RPI by Category

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***EN Pop is Resident + 1/3 Non-Resident

REMARKS
 FY 77 ECIP - Insulation and Heating Controls - \$990,496 - Completed (estimated) June 1978
 FY 77 Family Housing ECIP Improvements \$1,581,991 - Completed (estimated) October 1978
 FY 78 ECIP - Insulation and Heating Controls - \$2,475,730 - Completed (estimated) December 1979

UNITS/IFY	76	76	77	78	78
1. Energy Consumption & PD	172,024	182,095	192,104	169,456	157,435
2. Thermal En Cons & PD	101,495	87,406	94,131	89,812	77,138
3. Electrical En Cons & PD	70,529	94,689	97,973	79,644	80,295
4. Resident Population & PD	205	310	333	467	555
5. Non-Resident Population & PD	88	173	215	482	486
6. Population Served*** & PD	293	483	548	849	849
7. Effective Population*** & PD	234	368	405	528	417
8. En Consumption/Pop Served & PD	587.1	377.0	350.6	199.6	312.4
9. En Consumption/Eff Pop & PD	735.1	494.8	474.3	320.9	377.5
10. Electric En Consumption/Resident Population	344.0	305.4	294.2	217.0	314.6
11. Installed Air Cond Capacity & PD	-	-	-	-	33
12. Elec Energy/Ton of Air Cond & PD	-	-	-	-	-
13. Real Property Inventory (RPI) & PD	694	654	592	665	663
14. RPI/Effective Population	2.97	1.78	1.46	1.26	1.59
15. Energy Consumption/GSF & PD	247,873	278,432	324,500	254,821	232,440
16. Thermal En Consumption/GSF & PD	146,246	133,648	159,005	135,056	116,347
17. Electrical En Consumption/GSF & PD	101,627	144,784	165,495	119,765	121,093
18. RPI by Category					
Training	107	107	44	114	114
Maintenance & Production	70	70	71	73	73
Research, Development & Testing	-	-	-	-	-
Storage	107	107	24	21	21
Other Covered Storage	Not Available Separately Included Above	BASE	83	87	86
Hospital & Medical	3	3	3	3	3
Administration	43	3	3	3	3
Bachelor Housing	273	273	273	273	273
Community Facilities	24	24	24	24	24
Family Housing	-	-	-	-	-
Operational Buildings	43	43	43	43	43
Utility Buildings	24	24	23	23	23
Other	Not Available	BASE	1	1	1

*PD in Percent Deviation from Base Year
 **Population Served is the total Resident & Non-Resident Population
 ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION FT. BELVOIR, VA MACOM TRAMOC CLIMATIC REGION 3 HDD 4,819 CDD 1,120

UNITS/FY	76	77	78	79
1 Energy Consumption & PD	2,232,740	2,316,284	2,680,304	2,477,835
2 Thermal En Cons & PD	1,428,007	1,274,012	1,420,562	1,115,026
3 Electrical En Cons & PD	1,004,733	1,042,272	1,259,742	1,362,809
4 Resident Population & PD	10,136	9,617	9,646	8,913
5 Non-Resident Population & PD	7,477	7,178	6,872	7,505
6 Population Served** & PD	17,811	16,793	16,518	16,448
7 Effective Populat. on** & PD	12,826	12,009	11,937	11,445
8 En Consumption/Pop Served & PD	125.4	102.9	108.1	116.5
9 En Consumption/Res Pop & PD	174.1	174.7	176.4	172.4
10 Electric En Cons (non-Resident Population)	97.2	104.4	103.8	103.8
11 Installed Air Cond Capacity & PD	130.4	8.891	8.743	8.661
12 Elec Energy/Ten of Air Cond & PD	8.419	0.72	0.73	0.76
13 Real Property Inventory (RPI) & PD	242,886	264,972	307,651	286,753
14 RPI/Resident Population	126,401	145,735	163,039	129,039
15 Energy Consumption/GSF & PD	145,861	149,237	144,582	157,714
16 Thermal En Consumption/GSF & PD	119,341	116,385	112,222	113,811
17 Electrical En Consumption/GSF & PD	984	1,110	1,122	1,138
18 RPI by Category	582	565	565	569
Training	582	565	565	569
Maintenance & Production	741	741	741	741
Research, Development & Testing	741	741	741	741
Storage	524	524	524	524
Other Covered Storage	324	324	324	324
Hospital & Medical	617	617	617	617
Administration	1,682	1,682	1,682	1,682
Bachelor Housing	544	544	544	544
Community Facilities	2,338	2,338	2,338	2,338
Family Housing	194	194	194	194
Operational Buildings	50	50	50	50
Utility Buildings	34	34	34	34
Other	19	19	19	19

**Populaton Served is the total Resident & Non-Resident Population

**PD as Percent Deviation from Base Year

**EIF Pop & Resident + 1/3 Non-Resident

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Served** & PD
- 7 Effective Populat. on** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/Res Pop & PD
- 10 Electric En Cons (non-Resident Population)
- 11 Installed Air Cond Capacity & PD
- 12 Elec Energy/Ten of Air Cond & PD
- 13 Real Property Inventory (RPI) & PD
- 14 RPI/Resident Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPI by Category

FY 76 ECIP - Insulation and Storms - \$662,000 - Completed May 1977
 FY 77 ECIP - Insulation and Heating/Cooling System Improvements - \$1,475,318 - Completed (estimated) June 1978
 FY 77 Family Housing ECIP Improvements - \$134,015 - Completed (estimated) October 1978

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION FT. BENNING, GA. TRADOC MACOM CLIMATIC REGION 7 HDD 2,406 CDD 2,203

UNITS/FY	76	78	77	78	78
1 Energy Consumption & PD	4,054,399	4,118,100	4,610,604	4,618,082	4,435,787
2 Thermal En Cons & PD	2,311,008	2,264,955	2,628,045	2,539,946	2,345,668
3 Electrical En Cons & PD	1,743,391	1,853,145	1,982,559	2,078,136	2,080,119
4 Resident Population & PD	23,646	21,909	27,186	26,083	27,821
5 Non-Resident Population & PD	13,419	11,530	13,716	13,481	17,224
6 Population Served*** & PD	37,065	37,439	40,902	39,564	45,055
7 Effective Population*** & PD	28,119	28,419	31,758	30,577	33,572
8 En Consumption/Pop Served & PD	109.4	109.9	112.7	116.7	98.2
9 En Consumption/Eff Pop & PD	144.2	144.9	145.2	151.0	131.8
10 Electric En Consumption/Resident Population	73.7	77.5	72.9	79.7	74.7
11 Installed Air Cond Capacity & PD	20,856	20,497	22,985	26,896	27,520
12 Elec Energy/Ton of Air Cond & PD	83.6	90.4	86.2	77.3	75.6
13 Real Property Inventory (RPI) & PD	21,239	20,499	20,172	19,455	20,385
14 RPI/Effective Population	76	72	64	64	61
15 Energy Consumption/GSF & PD	190,894	200,893	228,584	227,372	217,110
16 Thermal En Consumption/GSF & PD	108,809	110,490	130,281	130,355	115,068
17 Electrical En Consumption/GSF & PD	82,085	90,403	98,303	106,817	102,042
18 RPI by Category	1,571	1,623	1,718	1,731	2,159
Training	1,484	1,381	1,348	1,362	1,333
Maintenance & Production	5	5	5	5	5
Research, Development & Testing	1,445	1,267	68	71	72
Storage	Not Available	Not Available	BASE	1,157	1,130
Other Covered Storage	561	554	522	501	505
Hospital & Medical Administration	771	747	750	699	574
Bachelor Housing	7,439	6,430	6,088	5,290	6,011
Community Facilities	1,648	1,562	1,522	1,551	1,537
Family Housing	5,922	6,406	6,518	6,587	6,592
Operational Buildings	309	260	250	237	227
Utility Buildings	84	98	102	191	116
Other	Not Available	BASE	51	73	115

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Served*** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/Eff Pop & PD
- 10 Electric En Consumption/Resident Population
- 11 Installed Air Cond Capacity & PD
- 12 Elec Energy/Ton of Air Cond & PD
- 13 Real Property Inventory (RPI) & PD
- 14 RPI/Effective Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPI by Category

REMARKS
 FY 77 ECIP - Storms, Solar Screens and Heating/Cooling System Improvements - \$463,080 - Completed (estimated) June 1978
 FY 76 ECIP - Insulation and Heating Controls \$458,754 - Completed July 1978
 FY 77 Family Housing ECIP Improvements - \$145,000 - Completed (estimated) October 1978

UNITS/FY	75	76	77	78	79
1 Energy Consumption & PD	3,345,884	3,256,202	3,437,802	3,053,192	3,116,158
2 Thermal En Cond & PD	1,873,696	1,725,788	1,822,036	1,496,085	1,538,079
3 Electrical En Cond & PD	1,472,188	1,530,414	1,615,766	1,557,107	1,578,079
4 Resident Population & PD	21,598	22,838	22,673	21,202	20,750
5 Non-Resident Population & PD	14,977	15,674	17,737	18,345	15,965
6 Population Served** & PD	36,575	38,512	40,410	39,547	36,715
7 Effective Population*** & PD	26,590	28,063	28,585	27,317	26,072
8 En Consumption/Pop Served & PD	91.5	84.6	85.1	77.2	84.9
9 En Consumption/EN Pop & PD	125.8	116.0	120.3	111.8	119.5
10 Electric En Consumption/Resident Population	68.2	67.0	71.3	73.4	75.1
11 Installed Air Cond Capacity & PD	5,715	5,670	5,689	5,742	5,787
12 Elec Energy/Ton of Air Cond & PD	237.6	269.9	284.0	271.2	269.2
13 Real Property Inventory (RPI) & PD	17,182	17,149	16,916	17,048	17,108
14 RPI/Effective Population	.65	.61	.59	.62	.66
15 Energy Consumption/GSF & PD	194,732	189,877	203,228	179,094	182,146
16 Thermal En Consumption/GSF & PD	109,049	100,634	107,710	87,756	91,073
17 Electrical En Consumption/GSF & PD	85,682	89,242	95,517	91,338	91,073
18 RPI by Category					
Training	1,751	1,767	1,758	1,729	1,694
Maintenance & Production	1,298	1,309	1,144	1,346	1,360
Research, Development & Testing	92	146	147	146	150
Storage	1,401	1,397	70	56	108
Other Covered Storage					
Hospital & Medical	944	878	903	860	867
Administration	982	982	962	958	1,039
Bachelor Housing	4,271	4,271	4,244	4,235	4,177
Community Facilities	1,168	1,155	1,148	1,172	1,142
Family Housing	4,841	4,841	4,884	4,884	4,800
Operational Buildings	434	315	269	266	274
Utility Buildings			87	78	80
Other				32	40

PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population *EN Pop is Resident + 1/3 Non-Residents

REMARKS FY 78 ECIP - Gas Fired Water Heaters - \$77,314 - Completed (estimated) December 1979

UNITSIFY	75	76	77	78	79
1. Energy Consumption & PD	382,836	383,529	383,056	384,531	384,251
2. Thermal En Cons & PD	218,217	199,436	210,681	211,493	184,044
3. Electrical En Cons & PD	164,619	184,093	172,375	173,038	163,207
4. Resident Population & PD	1,535	1,556	1,590	1,537	1,583
5. Non-Resident Population & PD	1,453	1,416	1,449	1,483	1,483
6. Population Served** & PD	2,988	2,972	3,039	3,020	3,066
7. Effective Population*** & PD	2,019	2,028	2,073	2,031	2,031
8. En Consumption/Pop Served & PD	128.1	129.0	126.0	127.3	115.0
9. En Consumption/EP Pop & PD	189.6	189.1	184.8	189.3	177.0
10. Electric En Cons. mtons/Resident Population	107.2	118.3	108.4	112.6	106.2
11. Installed Air Cond Capacity & PD	1,367	1,707	1,707	1,707	1,707
12. Etc Energy/Ton of Air Cond & PD	122.2	107.8	101	101.4	95.6
13. Real Property Inventory (RPI) & PD	1,400	1,436	1,493	1,493	1,493
14. RPI/Effective Population	69	70	72	74	74
15. Energy Consumption/GSF & PD	273,454	267,081	256,568	257,556	232,386
16. Thermal En Consumption/GSF & PD	155,869	138,883	141,112	141,656	123,271
17. Electrical En Consumption/GSF & PD	117,585	128,198	115,455	115,899	109,314
18. RPI by Category	194	194	253	252	252
Training	40	40	24	24	24
Maintenance & Production	-	-	-	-	-
Research, Development & Testing	-	-	-	-	-
Storage	71	71	-	-	-
Other Covered Storage	-	-	-	-	-
Hospital & Medical	41	41	53	53	53
Administration	65	65	44	44	44
Bachelor Housing	110	110	100	100	100
Community Facilities	211	247	107	108	108
Family Housing	645	645	211	211	211
Operational Buildings	20	20	676	676	676
Utility Buildings	3	3	12	12	12
Other	Not Available	Not Available	Not Available	Not Available	Not Available

*PD is Percent Deviation from Base Year
 **Population Served is the total Resident & Non-Resident Population
 ***EP Pop is Resident + 1/3 Non-Resident

REMARKS FY 77 Family Housing ECIP Improvements - \$278,724 - Completed (estimated) October 1978

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - FT. CHAFFEE, AR - MACOM - TRADOC - CLIMATIC REGION 7 HDD 3,336 CDD 2,022

UNITS/FP	76	78	77	78	78	78
1. Energy Consumption & PD	171,899	145,211	196,484	14,311	163,354	-5,011
2. Thermal En Cons & PD	99,102	191,711	129,680	30,111	96,379	-3,311
3. Electrical En Cons & PD	72,197	81,011	66,804	7,511	66,375	-7,211
4. Resident Population & PD	5,015	8,288	9,901	-82,011	808	-33,911
5. Non-Resident Population & PD	606	1,109	723	19,311	350	-42,211
6. Population Served** & PD	5,621	9,487	1,624	19,311	1,158	-79,411
7. Effective Population*** & PD	5,217	8,688	1,142	19,311	925	-82,311
8. En Consumption/Pop Served & PD	30,6	44,4	121,0	2,95,0	161,1	361,311
9. En Consumption/Resident Population	32,2	48,5	172,1	4,22,0	176,6	436,011
10. Electric En Consumption/Resident Population	14,4	15,7	74,1	4,15,0	82,9	475,811
11. Installed Air Cond Capacity & PD	785	1,010	1,010	28,7	1,010	28,7
12. Elec Energy/Ton of Air Cond & PD	4,897	129,3	4,865	-28,11	66,3	-27,911
13. Heat Property Inventory (RPI) & PD	35,103	86,131	40,387	3,53,8	33,501	4,61,611
14. RPI/Effective Population	20,359	59,430	26,656	30,9	19,766	-4,611
15. Energy Consumption/GSF & PD	14,743	26,700	13,731	-6,9	13,735	-6,811
16. Thermal En Consumption/GSF & PD	465	894	912	134	912	134
17. Electrical En Consumption/GSF & PD	410	410	397	18	398	18
18. RPI by Category	305	305	305	307	307	307
Maintenance & Production	116	116	125	125	125	125
Research, Development & Testing	2,055	2,055	2,062	2,062	2,062	2,062
Other Covered Storage	615	615	552	556	556	556
Hospital & Medical	4	4	332	337	337	337
Administration	33	33	23	24	24	24
Bachelor Housing	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Community Facilities	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Family Housing	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Operational Buildings	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Utility Buildings	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Other	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

- 1. Energy Consumption & PD
- 2. Thermal En Cons & PD
- 3. Electrical En Cons & PD
- 4. Resident Population & PD
- 5. Non-Resident Population & PD
- 6. Population Served** & PD
- 7. Effective Population*** & PD
- 8. En Consumption/Pop Served & PD
- 9. En Consumption/Resident Population
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity & PD
- 12. Elec Energy/Ton of Air Cond & PD
- 13. Heat Property Inventory (RPI) & PD
- 14. RPI/Effective Population
- 15. Energy Consumption/GSF & PD
- 16. Thermal En Consumption/GSF & PD
- 17. Electrical En Consumption/GSF & PD
- 18. RPI by Category

**Population Served is the total Resident & Non-Resident Population
 ***Eff Pop is Resident + 1/3 Non-Resident
 *PD is Percent Deviation from Base Year

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION_PT. DIX, N.J. MACOM TRADOC CLIMATIC REGION³ HDD 5,139 CDD 983

UNITS/FY	76	76	77	78	78	79
1. Energy Consumption & PD	2,805,469	2,773,214	3,021,409	2,771,208	2,771,208	2,629,454
2. Thermal En Cons & PD	1,913,829	1,913,518	2,114,987	1,912,134	1,912,134	1,814,324
3. Electrical En Cons & PD	841,640	859,696	906,422	859,074	859,074	815,130
4. Resident Population & PD	15,755	20,736	17,301	13,712	13,712	13,800
5. Non-Resident Population & PD	3,168	4,082	2,058	5,816	5,816	5,004
6. Population Served** & PD	19,123	24,818	19,359	19,528	19,528	18,804
7. Effective Population*** & PD	16,878	22,097	17,987	15,651	15,651	15,488
8. En Consumption/Pop Served & PD	146.7	111.7	156.1	141.9	141.9	139.8
9. En Consumption/ER Pop & PD	166.2	125.5	166.0	177.1	177.1	170.0
10. Electric En Consumption/Resident Population	52.4	41.5	52.4	62.7	62.7	59.1
11. Installed Air Cond Capacity & PD	5,935	6,245	5,103	5,103	5,103	5,103
12. Elec Energy/Ton of Air Cond & PD	141.8	137.7	177.6	168.3	168.3	159.7
13. Heat Property Inventory (HP) & PD	11,920	11,095	11,639	11,572	11,572	11,438
14. HP/Effective Population	.71	.50	.65	.74	.74	.74
15. Energy Consumption/GSF & PD	235,358	249,951	259,592	239,475	239,475	229,486
16. Thermal En Consumption/GSF & PD	164,750	172,466	181,715	165,238	165,238	158,345
17. Electrical En Consumption/GSF & PD	70,607	77,485	77,878	74,237	74,237	71,140
18. ER by Category						
Training	566	700	701	687	687	638
Maintenance & Production	331	309	447	444	444	418
Research, Development & Testing	4	4	4	4	4	4
Storage	877	843	856	833	833	833
Other Covered Storage						
Hospital & Medical						
Administration	581	530	483	483	483	483
Bachelor Housing	543	449	551	551	551	545
Community Facilities	4,518	3,883	4,093	4,088	4,088	4,088
Family Housing	971	971	1,273	1,273	1,273	1,273
Operational Buildings	3,131	2,771	2,832	2,799	2,799	2,799
Utility Buildings	218	218	265	264	264	264
Other	160	157	97	97	97	97
Not Available	BASE	BASE	BASE	BASE	BASE	BASE
Percent Deviation from Base Year	260	260	11	12	12	12

1. Energy Consumption & PD
2. Thermal En Cons & PD
3. Electrical En Cons & PD
4. Resident Population & PD
5. Non-Resident Population & PD
6. Population Served** & PD
7. Effective Population*** & PD
8. En Consumption/Pop Served & PD
9. En Consumption/ER Pop & PD
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity & PD
12. Elec Energy/Ton of Air Cond & PD
13. Heat Property Inventory (HP) & PD
14. HP/Effective Population
15. Energy Consumption/GSF & PD
16. Thermal En Consumption/GSF & PD
17. Electrical En Consumption/GSF & PD
18. ER by Category

Training
 Maintenance & Production
 Research, Development & Testing
 Storage
 Other Covered Storage
 Hospital & Medical
 Administration
 Bachelor Housing
 Community Facilities
 Family Housing
 Operational Buildings
 Utility Buildings
 Other

REMARKS
 FY 77 Family Housing ECIP Improvements - \$506,114 - Completed (estimated) October 1978
 **PD at Percent Deviation from Base Year
 ***Population Served is the total Resident & Non-Resident Population
 **ER Pop is Resident + 1/3 Non-Resident

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - FT. EUSTIS, VA. - MACOM - TRADOC - CLIMATIC REGION 4 - HDD 3,752 CDD 1,585

UNITS/FY	75	76	77	78	79
MRTU	1,758,995	1,643,932	1,831,011	1,832,334	1,612,771
MRTU	985,038	882,088	922,126	989,461	758,003
MRTU	771,957	834,844	878,885	842,873	854,768
PEOPLE	11,661	11,407	11,445	10,911	10,257
PEOPLE	4,053	3,199	3,351	3,087	2,819
PEOPLE	15,214	14,601	14,796	18,998	14,447
PEOPLE	13,012	12,468	12,562	13,607	11,654
MRTUCAP	111.9	112.6	123.8	96.4	111.6
MRTUCAP	135.2	131.8	145.8	134.7	136.4
MRTUCAP	66.4	75.0	76.8	77.2	83.3
TONS	8,152	9,009	9,140	9,235	9,235
MRTULTON	94.9	94.9	96.2	91.3	92.6
KSF	8,032	7,524	6,324	6,218	6,503
KSF	62	50	50	46	56
BTUGSF	218,998	218,492	289,534	294,682	248,004
BTUGSF	122,639	104,876	130,558	159,128	116,562
BTUGSF	96,359	113,616	138,976	135,554	131,442
KSF	1,351	1,351	1,010	1,015	1,152
KSF	458	469	310	310	317
KSF	54	54	52	52	55
KSF	555	532	3	3	4
KSF	123	116	407	405	407
KSF	424	369	325	325	351
KSF	2,144	2,036	1,647	1,379	1,431
KSF	658	607	677	519	562
KSF	2,039	1,793	1,793	1,801	1,813
KSF	176	141	65	55	55
KSF	50	56	53	50	40
KSF	Not Available	Not Available	31	31	30

1. Energy Consumption & PD
 2. Thermal En Cons & PD
 3. Electrical En Cons & PD
 4. Resident Population & PD
 5. Non-Resident Population & PD
 6. Population Served** & PD
 7. Effective Population*** & PD
 8. En Consumption/Pop Served & PD
 9. En Consumption/En Pop & PD
 10. Electric En Consumption/Resident Population
 11. Installed Air Cond Capacity & PD
 12. Elec Energy/Ton of Air Cond & PD
 13. Nat Property Inventory (NPI) & PD
 14. NPI/Effective Population
 15. Energy Consumption/KSF & PD
 16. Thermal En Consumption/KSF & PD
 17. Electrical En Consumption/KSF & PD
 18. NPI by Company
- Training
Maintenance & Production
Research, Development & Testing
Storage
Other Covered Storage
Hospital & Medical
Administration
Bachelor Housing
Community Facilities
Family Housing
Operational Buildings
Unity Buildings
Other

**Population Served is the total Resident & Non-Resident Population
***Eff Pop is Resident + 1/3 Non-Resident

REMARKS Includes Ft Story data which was reported separately in FY75 and FY76, but combined herein for consistency.
 FY 76 ECIP - Energy Monitoring and Control System, Phase 1 - \$2,303,000 - Completed June 1977
 FY 77 ECIP - EMCS, Phase 2 - Insulation and Storms - \$2,538,000 - Completed (estimated) June 1978
 FY 77 Family Housing ECIP Improvements - \$899,000 - Completed (estimated) October 1978

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - ET - GORDON, GA - MACOM - TRADDC - CLIMATIC REGION -4- HDD 2,547 CDD 1,995

UNITS/FY	76	77	78	79
1. Energy Consumption & PD	2,599,043	2,877,758	2,714,881	2,589,086
2. Thermal En Cons & PD	1,481,455	1,640,323	1,411,739	1,320,434
3. Electrical En Cons & PD	1,117,588	1,237,435	1,303,142	1,268,652
4. Resident Population & PD	11,685	13,101	13,292	14,287
5. Non-Resident Population & PD	10,701	9,493	9,475	9,710
6. Population Served** & PD	22,386	22,594	22,767	23,997
7. Effective Population*** & PD	15,252	16,265	16,450	17,524
8. En Consumption/Pop Served & PD	116.1	127.4	119.2	107.9
9. En Consumption/Resident Pop & PD	170.4	176.9	165.0	147.7
10. Electric En Consumption/Resident Population	95.6	94.4	98.0	88.8
11. Installed Air Cond Capacity & PD	19,334	20,459	20,580	20,696
12. Elec Energy/Ton of Air Cond & PD	8.941	61.5	63.3	61.3
13. Real Property Inventory (RPI) & PD	8,941	9,699	9,563	9,573
14. RPI/Effective Population	.59	.60	.58	.54
15. Energy Consumption/GSF & PD	290,688	296,707	283,894	270,457
16. Thermal En Consumption/GSF & PD	165,692	169,123	147,625	137,933
17. Electrical En Consumption/GSF & PD	124,996	127,584	136,269	132,524
18. RPI by Category				
Training	1,331	1,404	1,404	1,414
Maintenance & Production	381	422	391	392
Research, Development & Testing	12	18	18	16
Storage	657	17	17	17
Other Covered Storage				
Hospital & Medical	387	777	732	653
Administration	616	594	591	739
Bachelor Housing	2,981	3,163	3,077	613
Community Facilities	965	949	1,002	3,057
Family Housing	1,285	1,270	1,210	1,066
Operational Buildings	287	249	236	1,271
Utility Buildings	39	88	93	226
Other	Non Available	BASE	15	15

- 1. Energy Consumption & PD
- 2. Thermal En Cons & PD
- 3. Electrical En Cons & PD
- 4. Resident Population & PD
- 5. Non-Resident Population & PD
- 6. Population Served** & PD
- 7. Effective Population*** & PD
- 8. En Consumption/Pop Served & PD
- 9. En Consumption/Resident Pop & PD
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity & PD
- 12. Elec Energy/Ton of Air Cond & PD
- 13. Real Property Inventory (RPI) & PD
- 14. RPI/Effective Population
- 15. Energy Consumption/GSF & PD
- 16. Thermal En Consumption/GSF & PD
- 17. Electrical En Consumption/GSF & PD
- 18. RPI by Category

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - FT. HAMILTON, N.Y. - MACOM - TRADOC - CLIMATIC REGION - 3 - HDD 5,184 CDD 861

UNITS/FY	75	76	77	78	79
MRTU	890,416	820,000	749,654	604,785	565,521
MRTU	569,867	520,000	487,276	411,254	378,900
MRTU	320,549	300,000	262,378	193,531	186,621
PEOPLE	14,013	14,013	4,576	4,576	4,576
PEOPLE	7,877	7,877	1,067	1,067	1,067
PEOPLE	16,890	16,890	5,643	5,480	5,481
PEOPLE	14,972	4,950	4,932	4,877	4,878
MRTUCAP	52.7	110.4	110.4	110.4	103.2
MRTUCAP	59.5	163.7	131.9	124.0	115.9
MRTUCAP	77.8	2,400	57.3	42.3	40.8
TONS	2,946	2,400	2,368	1,862	1,862
MRTUTON	108.8	125	110.8	103.9	100.2
KSF	7,421	4,100	4,028	3,126	3,126
KSF	119,386	200,000	186,111	193,469	180,909
BTUNGSF	76,791	126,829	120,972	131,559	121,209
BTUNGSF	63,195	73,170	65,139	61,910	59,700
KSF	1,274	689	689	132	132
KSF	591	249	249	165	165
KSF	347	3	3	3	3
KSF	185	78	78	50	50
KSF	622	342	342	232	232
KSF	1,217	280	280	272	272
KSF	739	384	384	384	384
KSF	2,097	1,743	1,743	1,714	1,714
KSF	304	45	45	45	45
KSF	10	8	8	6	6
KSF	Not Available	BASE	BASE	BASE	BASE

- 1. Energy Consumption @ PD
- 2. Thermal En Conv @ PD
- 3. Electrical En Conv @ PD
- 4. Resident Population @ PD
- 5. Non-Resident Population @ PD
- 6. Population Served** @ PD
- 7. Effective Population*** @ PD
- 8. En Consumption/Pop Served @ PD
- 9. En Consumption/En Pop @ PD
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity @ PD
- 12. Elec Energy/Ton of Air Cond @ PD
- 13. Real Property Inventory (RPI) @ PD
- 14. RPI/Effective Population
- 15. Energy Consumption/GSF @ PD
- 16. Thermal En Consumption/GSF @ PD
- 17. Electrical En Consumption/GSF @ PD
- 18. RPI by Category

- Maintenance & Production
- Research, Development & Testing
- Storage
- Other Covered Storage
- Hospital & Medical
- Administration
- Bachelor Housing
- Community Facilities
- Family Housing
- Operational Buildings
- Utility Buildings
- Other

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS Reported as a FORSCOM Installation in FY75. Transferred to TRADOC as a sub-Installation of Ft Dix as of FY77 but is reported separately. As a result of the transfer, no report was submitted for FY76 so the above data for FY76 is estimated for comparison purposes.

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - FT. BENJAMIN HARRISON, MACOM, TRADOC - CLIMATIC REGION 2 - HOD 5-577 CDD 974

UNITS/FY	IND.								
	76	77	78	79	80				
MRTU	1,273,276	1,195,006	(-6.1)	1,232,094	(+3.2)	1,277,063	(+0.3)	1,198,375	(-5.9)
MRTU	700,402	621,404	(-11.3)	633,010	(+1.8)	727,926	(+14.3)	635,113	(-11.3)
MRTU	572,974	573,602	(+0.1)	579,084	(+0.9)	549,137	(-4.2)	563,213	(+2.4)
PEOPLE	3,588	2,826	(-21.2)	3,753	(+28.1)	2,795	(-22.1)	3,090	(+10.7)
PEOPLE	13,573	13,061	(-3.8)	12,158	(-10.4)	6,503	(-46.3)	5,806	(-11.2)
PEOPLE	17,161	15,887	(-7.4)	15,909	(+0.1)	9,298	(-41.8)	8,896	(-4.3)
PEOPLE	8,112	7,180	(-11.5)	7,804	(+8.6)	4,963	(-38.8)	5,025	(+1.3)
MRTUCAP	74.2	75.2	(+1.4)	77.4	(+2.9)	137.3	(+75.1)	134.7	(-1.9)
MRTUCAP	156.9	166.4	(+6.0)	157.9	(-0.6)	237.3	(+51.0)	238.5	(+0.5)
MRTUCAP	159.7	203.0	(+27.1)	154.4	(-23.3)	196.5	(+26.0)	182.3	(-6.7)
TONS	8,187	8,167	(-0.2)	8,624	(+5.6)	8,874	(+2.9)	8,924	(+0.6)
MRTUTON	69.9	70.4	(+0.6)	67.1	(-4.6)	61.9	(-9.1)	63.2	(+2.1)
KSF	4,798	4,857	(+1.2)	4,921	(+1.3)	4,922	(+0.0)	4,941	(+0.4)
KSF	59	68	(+14.6)	63	(-7.3)	99	(+56.2)	98	(-1.0)
BTUGSF	265,376	246,038	(-7.3)	250,375	(+1.7)	259,460	(+3.6)	242,527	(-6.5)
BTUGSF	145,957	127,940	(-12.3)	132,699	(+3.6)	147,892	(+11.2)	128,539	(-11.9)
BTUGSF	119,419	118,098	(-1.1)	117,676	(-0.4)	111,568	(-6.1)	113,988	(+2.1)
KSF	921	945	(+2.6)	1,032	(+9.1)	1,026	(-0.6)	1,022	(-0.4)
KSF	121	121	(+0.0)	205	(+69.4)	107	(-12.4)	108	(+0.9)
KSF	31	-	(-100.0)	2	(-93.5)	2	(+0.0)	2	(+0.0)
KSF	179	163	(-9.0)	189	(+11.0)	230	(+21.2)	231	(+0.4)
KSF	116	134	(+15.6)	116	(-14.2)	116	(+0.0)	116	(+0.0)
KSF	1,502	1,524	(+1.5)	1,504	(-1.2)	1,507	(+0.2)	1,507	(+0.0)
KSF	885	899	(+1.6)	867	(-3.0)	900	(+1.3)	900	(+0.0)
KSF	378	434	(+14.8)	375	(-0.7)	403	(+7.5)	424	(+5.2)
KSF	584	578	(-1.0)	597	(+2.4)	578	(-0.2)	578	(+0.0)
KSF	28	27	(-3.6)	16	(-40.7)	16	(+0.0)	16	(+0.0)
KSF	33	32	(-3.0)	18	(-45.2)	34	(+6.3)	34	(+0.0)
KSF						3	(+7.5)	3	(+0.0)

1. Energy Consumption @ PD
2. Thermal En Cons @ PD
3. Electrical En Cons @ PD
4. Resident Population @ PD
5. Non-Resident Population @ PD
6. Population Served** @ PD
7. Effective Population*** @ PD
8. En Consumption/Pop Served @ PD
9. En Consumption/Resident Population
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity @ PD
12. Elec Energy/Ton of Air Cond @ PD
13. Real Property Inventory (RPI) @ PD
14. RPI/Effective Population
15. Energy Consumption/GSF @ PD
16. Thermal En Consumption/GSF @ PD
17. Electrical En Consumption/GSF @ PD
18. RPI by Category

Training
 Maintenance & Production
 Research, Development & Testing
 Storage
 Other Covered Storage
 Hospital & Medical
 Administration
 Bachelor Housing
 Community Facilities
 Family Housing
 Operational Buildings
 Utility Buildings
 Other

*PD is Percent Deviation from Base Year
 **Population Served is the total Resident & Non-Resident Population
 ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS
 FY 77 ECIP - Insulation and Electric Alterations - \$109,000 - Completed (estimated) June 1978
 FY 77 Family Housing ECIP Improvements - \$28,000 - Completed (estimated) October 1978

UNITS/FY	76	77	78	79
1. Energy Consumption @ PD	80,062	67,728	(-15.4)	89,357
2. Thermal En Cons @ PD	65,636	38,605	(-15.4)	52,721
3. Electrical En Cons @ PD	36,426	29,123	(-15.4)	36,636
4. Resident Population @ PD	1,054	625	(-35.9)	960
5. Non-Resident Population @ PD	361	361	(0)	361
6. Population Served** @ PD	1,415	1,036	(-26.8)	1,343
7. Effective Population*** @ PD	1,174	795	(-32.3)	1,074
8. En Consumption/Pop Served @ PD	56.6	65.4	(15.3)	66.5
9. En Consumption/EF Pop @ PD	68.2	85.2	(24.9)	83.2
10. Electric En Consumption/Resident Population	32.7	43.1	(32.1)	39.0
11. Installed Air Cond Capacity @ PD	116	116	(0)	201
12. Elec Energy/Ton of Air Cond @ PD	296.8	251.1	(-15.4)	182.3
13. Real Property Inventory (RPI) @ PD	519	524	(1.0)	537
14. RPI/Effective Population	.44	.66	(49.1)	.50
15. Energy Consumption/GSF @ PD	154,262	129,252	(-16.2)	166,400
16. Thermal En Consumption/GSF @ PD	87,931	73,674	(-16.2)	98,177
17. Electrical En Consumption/GSF @ PD	66,331	55,578	(-16.2)	68,223
18. RPI by Category				
Training	16	16		15
Maintenance & Production	14	53		53
Research, Development & Testing		45		
Storage		134		17
Other Covered Storage	129	18		116
Hospital & Medical Administration	5	5		5
Bachelor Housing	51	51		51
Community Facilities	190	167		178
Family Housing	47	47		49
Operational Buildings	17	17		19
Utility Buildings	6	6		6
Other	44	29		24
Not Available				
Not Available				

- 1. Energy Consumption @ PD
- 2. Thermal En Cons @ PD
- 3. Electrical En Cons @ PD
- 4. Resident Population @ PD
- 5. Non-Resident Population @ PD
- 6. Population Served** @ PD
- 7. Effective Population*** @ PD
- 8. En Consumption/Pop Served @ PD
- 9. En Consumption/EF Pop @ PD
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity @ PD
- 12. Elec Energy/Ton of Air Cond @ PD
- 13. Real Property Inventory (RPI) @ PD
- 14. RPI/Effective Population
- 15. Energy Consumption/GSF @ PD
- 16. Thermal En Consumption/GSF @ PD
- 17. Electrical En Consumption/GSF @ PD
- 18. RPI by Category

**PD as Percent Deviation from Base Year
 **Population Served is the total Resident & Non-Resident Population
 ***EF Pop as Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION FT JACKSON, S.C. MACOMB TRADOC CLIMATIC REGION 7 HDD 2,598 CDD 2,087

UNITS/FY	76	76	76	77	78	79			
1. Energy Consumption @ PD	2,595,459	2,749,645	(5.9)	3,065,945	(18.1)	2,748,788	(5.9)	2,479,414	(-4.5)
2. Thermal En Cons @ PD	1,505,367	1,567,298	(4.1)	1,870,227	(24.2)	1,643,271	(9.6)	1,462,855	(-2.8)
3. Electrical En Cons @ PD	1,080,092	1,182,347	(8.5)	1,195,718	(9.7)	1,099,513	(0.9)	1,016,559	(-6.7)
4. Resident Population @ PD	17,389	18,933	(8.9)	18,481	(6.3)	15,596	(-10.3)	15,682	(-9.8)
5. Non-Resident Population @ PD	8,571	8,768	(2.3)	8,331	(-2.8)	8,009	(-6.6)	5,976	(-30.3)
6. Population Served** @ PD	25,960	27,701	(6.7)	26,812	(3.3)	23,605	(-9.1)	21,658	(-16.6)
7. Effective Population*** @ PD	20,246	21,856	(8.0)	21,258	(5.0)	18,266	(-9.8)	17,674	(-12.7)
8. En Consumption/Pop Served @ PD	100.0	99.3	(-0.7)	114.3	(14.4)	116.4	(1.6)	116.5	(14.5)
9. En Consumption/Enf Pop @ PD	128.2	125.8	(-1.9)	144.2	(12.5)	150.5	(17.4)	140.3	(9.4)
10. Electric En Consumption/Resident Population	62.7	62.4	(-0.4)	64.7	(3.2)	70.5	(12.5)	66.8	(3.4)
11. Installed Air Cond Capacity @ PD	13,074	12,660	(-3.2)	12,957	(-0.9)	12,824	(-1.9)	12,829	(-1.9)
12. Base Energy/Ton of Air Cond @ PD	83.4	83.4	(12.0)	92.3	(10.7)	85.7	(-2.8)	79.2	(-4.9)
13. Heat Property Inventory (HP) @ PD	10,381	10,214	(-1.6)	11,087	(6.8)	9,868	(-4.9)	10,670	(2.8)
14. Ineffective Population	51	47	(-8.9)	52	(1.7)	54	(5.4)	60	(17.7)
15. Energy Consumption/GSF @ PD	250,020	269,203	(7.7)	276,535	(10.6)	278,555	(11.4)	232,372	(-7.1)
16. Thermal En Consumption/GSF @ PD	145,011	153,446	(5.8)	168,686	(16.3)	167,133	(15.3)	137,099	(-5.5)
17. Electrical En Consumption/GSF @ PD	105,008	115,757	(10.2)	107,848	(2.7)	111,422	(6.1)	95,272	(-9.3)
18. Enf by Category									
Training	910	946		988		933		989	
Maintenance & Production	362	368		346		337		337	
Research, Development & Testing									
Storage	644	649		19		22		22	
Other Covered Storage									
Hospital & Medical	517	517		579		635		648	
Administration	292	262		471		520		491	
Bachelor Housing	4,288	4,251		4,397		4,156		4,558	
Community Facilities	1,114	1,111		1,140		1,346		1,109	
Family Housing	1,737	1,696		1,694		964		1,682	
Operational Buildings	435	424		207		112		112	
Utility Buildings	82			68		32		32	
Other				888		498		372	

- 1. Energy Consumption @ PD
- 2. Thermal En Cons @ PD
- 3. Electrical En Cons @ PD
- 4. Resident Population @ PD
- 5. Non-Resident Population @ PD
- 6. Population Served** @ PD
- 7. Effective Population*** @ PD
- 8. En Consumption/Pop Served @ PD
- 9. En Consumption/Enf Pop @ PD
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity @ PD
- 12. Base Energy/Ton of Air Cond @ PD
- 13. Heat Property Inventory (HP) @ PD
- 14. Ineffective Population
- 15. Energy Consumption/GSF @ PD
- 16. Thermal En Consumption/GSF @ PD
- 17. Electrical En Consumption/GSF @ PD
- 18. Enf by Category

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Enf Pop is Resident + 1/3 Non-Resident

FY 76 ECIP - Weatherproofing and Hot Water Distribution System - \$1,060,396 - Completed February 1979

REMARKS

UNITS/FY	76	77	78	79
1 Energy Consumption & PD	4,081,763	4,233,034	4,277,763	4,144,587
2 Thermal En Cons & PD	2,612,329	2,582,151	2,694,991	2,611,090
3 Electrical En Cons & PD	1,469,434	1,650,883	1,582,772	1,533,497
4 Resident Population & PD	29,658	29,010	29,067	29,067
5 Non-Resident Population*** & PD	14,419	15,275	12,220	12,220
6 Population Served** & PD	44,077	44,602	41,287	41,287
7 Effective Population*** & PD	34,464	34,207	33,140	33,140
8 En Consumption/Pop Served & PD	92.6	94.9	103.6	100.4
9 En Consumption/Resident Population	118.4	123.7	129.1	125.1
10 Electric En Consumption/Resident Population	49.5	56.9	54.4	52.8
11 Installed Air Con. Capacity & PD	8,468	8,551	8,389	8,359
12 Elec Energy/Ton of Air Cond & PD	173.5	193.1	188.7	183.4
13 Real Property Inventory (RPI) & PD	19,892	20,606	20,360	20,355
14 RPI/Electric Population	38	601	61	64
15 Energy Consumption/GSF & PD	205,196	205,427	210,106	203,615
16 Thermal En Consumption/GSF & PD	131,326	125,311	132,367	128,278
17 Electrical En Consumption/GSF & PD	73,870	80,116	77,739	75,337
18 RPI by Category				
Training	1,879	2,091	2,391	2,391
Maintenance & Production	1,414	1,619	1,493	1,493
Research, Development & Testing	198	95	95	95
Storage	1,208	62	62	62
Other Covered Storage		1,352	1,157	1,157
Hospital & Medical	478	476	476	476
Administration	736	604	556	551
Bachelor Housing	5,768	5,596	5,596	5,596
Community Facilities	1,590	1,936	1,886	1,886
Family Housing	6,218	6,218	6,218	6,218
Operational Buildings	282	346	261	261
Utility Buildings	121	121	121	121
Other	Not Available	BASE	138	48

*PD is Percent Deviation from Base Year
 **Population Served is the total Resident & Non-Resident Population
 ***EN Pop is Resident + 1/3 Non-Resident

- REMARKS
- FY 76 ECIP - Heating/Cooling Alterations \$465,350 - Completed September 1977
- FY 77 ECIP - Insulation, Heating/Cooling Alterations, Heating Plants Modifications - \$3,774,408 - Completed (estimated) June 1978
- FY 77 Family Housing ECIP Improvements - \$425,000 - Completed (estimated) October 1978

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - FT. LEAVENWORTH, KS. - MACOM TRADOC - CLIMATIC REGION 3 HDD 4,822 CDD 1,292

UNITS/FY	76	76	77	78	78	78
1. Energy Consumption & PD	1,502,641	1,297,425	1,444,206	1,560,060	1,560,060	1,190,616
2. Thermal En Cons & PD	516,612	574,687	808,736	936,036	936,036	607,215
3. Electrical En Cons & PD	586,029	622,738	635,450	628,024	628,024	583,403
4. Resident Population & PD	9,002	8,883	8,484	7,775	7,775	7,768
5. Non-Resident Population & PD	2,936	3,025	2,925	2,823	2,823	2,825
6. Population Served** & PD	11,936	11,908	11,409	10,598	10,598	10,573
7. Effective Population*** & PD	9,987	9,908	9,459	8,716	8,716	8,690
8. En Consumption/Pop Served & PD	125.7	108.5	126.6	147.2	147.2	112.6
9. En Consumption/Eff Pop & PD	150.5	130.9	152.7	179.0	179.0	137.0
10. Electric En Consumption/Resident Population	65.1	70.1	74.9	80.3	80.3	75.3
11. Insulated Air Cond Capacity & PD	6,762	7,180	5,152	5,815	5,815	5,833
12. Elec Energy/Ton of Air Cond & PD	123.1	86.7	123.3	107.3	107.3	100.0
13. Real Property Inventory (RPI) & PD	7,756	6,836	6,912	6,962	6,962	6,943
14. RPI/Effective Population	78	69	73	80	80	80
15. Energy Consumption/GSF & PD	193,739	189,800	208,942	224,082	224,082	171,484
16. Thermal En Consumption/GSF & PD	118,181	98,696	117,008	134,449	134,449	87,457
17. Electrical En Consumption/GSF & PD	75,558	91,104	91,934	89,633	89,633	84,027
18. RPI by Category						
Training	433	472	433	433	433	411
Manufacture & Production	256	256	256	256	256	259
Research, Development & Testing						32
Storage	311	311	311	311	311	311
Other Covered Storage						372
Hospital & Medical						144
Administration						410
Bachelor Housing						736
Community Facilities						753
Family Housing						3,659
Operational Buildings						89
Utility Buildings						79
Other						3

- 1. Energy Consumption & PD
- 2. Thermal En Cons & PD
- 3. Electrical En Cons & PD
- 4. Resident Population & PD
- 5. Non-Resident Population & PD
- 6. Population Served** & PD
- 7. Effective Population*** & PD
- 8. En Consumption/Pop Served & PD
- 9. En Consumption/Eff Pop & PD
- 10. Electric En Consumption/Resident Population
- 11. Insulated Air Cond Capacity & PD
- 12. Elec Energy/Ton of Air Cond & PD
- 13. Real Property Inventory (RPI) & PD
- 14. RPI/Effective Population
- 15. Energy Consumption/GSF & PD
- 16. Thermal En Consumption/GSF & PD
- 17. Electrical En Consumption/GSF & PD
- 18. RPI by Category

PD is Percent Deviation from Base Year
 **Population Served is the total Resident & Non-Resident Population
 ***Eff Pop is Resident + 1/3 Non-Resident
 FY 77 Family Housing ECIP Improvements - \$179,418 - Completed (estimated) October 1978

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION ET. LEE, VA. MACOM TRADOC CLIMATIC REGION 4 HDD 3,939 COD 1,353

UNITS/FY	75	76	77	78	79			
1 Energy Consumption & PD	1,641,553	(-1.8)	1,755,187	(-6.9)	1,840,084	(-12.1)	1,737,544	(-5.8)
2 Thermal En Cons & PD	1,050,594	(-11.0)	982,905	(-6.4)	1,030,448	(-1.9)	816,646	(-22.3)
3 Electrical En Cons & PD	590,959	(14.5)	772,282	(30.7)	809,636	(37.0)	920,898	(55.8)
4 Resident Population & PD	9,674	(3.6)	10,407	(7.6)	10,250	(6.0)	11,080	(14.5)
5 Non-Resident Population & PD	5,988	(-2.7)	5,737	(-4.2)	5,261	(-3.8)	5,468	(-8.7)
6 Population Served** & PD	15,662	(1.2)	16,144	(3.1)	16,011	(2.2)	16,548	(5.2)
7 Effective Population*** & PD	11,670	(2.6)	12,319	(5.6)	12,170	(4.3)	12,903	(10.6)
8 En Consumption/Pop Served & PD	104.8	(-3.0)	108.7	(3.7)	114.9	(9.7)	105.0	(-0.2)
9 En Consumption/Resident Population	140.7	(-4.3)	142.5	(1.3)	151.2	(7.5)	134.7	(-4.3)
10 Electric En Consumption/Resident Population	61.1	(-10.5)	74.2	(21.5)	79.0	(29.3)	83.1	(36.1)
11 Installed Air Cond Capacity & PD	5,077	(14.4)	10,986	(116.4)	11,645	(19.4)	11,750	(131.4)
12 Elec Energy/Ton of Air Cond & PD	116.4	(-20.7)	70.3	(-39.6)	69.5	(-40.3)	78.4	(-32.7)
13 Real Property Inventory (RPI) & PD	7,595	(-0.8)	7,654	(0.8)	7,689	(1.2)	7,624	(-0.4)
14 RPI/Effective Population	65	(-3.3)	62	(-4.5)	63	(-2.9)	59	(-9.2)
15 Energy Consumption/GSF & PD	216,136	(-1.1)	229,316	(6.1)	239,313	(10.7)	227,904	(-5.4)
16 Thermal En Consumption/GSF & PD	138,327	(-10.3)	128,417	(-7.2)	134,015	(-3.1)	107,115	(-22.6)
17 Electrical En Consumption/GSF & PD	77,809	(15.4)	100,899	(29.7)	105,298	(35.3)	120,789	(55.2)
18 RPI by Category								
Training	918		894		894		894	
Maintenance & Production	273		273		245		245	
Research, Development & Testing	22		23		23		23	
Storage	441		11		11		11	
Other Covered Storage								
Hospital & Medical	357		629		453		453	
Administration	531		354		230		211	
Bachelor Housing	1,973		564		723		719	
Community Facilities	626		2,015		2,021		1,974	
Family Housing	2,150		2,150		2,150		2,150	
Operational Buildings	260		260		260		260	
Utility Buildings	44		39		39		39	
Other			74		24		24	

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Served** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/Resident Population
- 10 Electric En Consumption/Resident Population
- 11 Installed Air Cond Capacity & PD
- 12 Elec Energy/Ton of Air Cond & PD
- 13 Real Property Inventory (RPI) & PD
- 14 RPI/Effective Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPI by Category

*PD at Percent Deviation from Base Year
 **Population Served is the total Resident & Non-Resident Population
 ***EN Pop is Resident + IG Non-Resident

A-54

REMARKS
 FY 76 ECIP - Building Improvements - \$917,000 - Completed June 1977
 FY 77 ECIP - Energy Monitoring/Control System - \$1,342,800 - Completed (estimated) June 1978

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION FT. MCCLIELLAN, AL MACOM TPADOC CLIMATIC REGION 4 HDD 2,806 CDD 1,866

UNITS/FY	76	77	78	79
MRTU	825,429	1,171,193	1,243,301	1,219,423
MRTU	470,495	597,309	597,745	560,935
MRTU	354,934	573,884	647,556	658,488
PEOPLE	5,211	7,636	8,132	8,333
PEOPLE	3,036	5,330	5,061	4,204
PEOPLE	8,247	12,966	13,173	17,569
PEOPLE	6,223	9,413	11,146	11,412
MRTU/CAP	100.1	90.3	72.5	69.4
MRTU/CAP	132.6	124.4	111.7	106.9
MRTU/CAP	68.1	75.2	79.6	79.0
TONS	4,388	7,721	7,987	8,035
MRTU/TON	77.4	74.3	81.1	82.0
KSF	4,751	5,375	5,349	5,615
KSF/CAP	76	57	50	49
BTU/GSF	173,737	237,896	224,419	217,172
BTU/GSF	99,030	111,127	107,721	99,899
BTU/GSF	74,707	106,769	116,697	117,273
KSF	710	825	851	918
KSF	191	208	205	205
KSF	447	18	19	18
KSF	157	158	182	174
KSF	282	361	362	354
KSF	1,439	1,740	1,761	1,761
KSF	469	485	693	721
KSF	109	106	851	850
KSF	48	45	107	102
KSF	BASE	BASE	BASE	BASE

1. Energy Consumption & PD
2. Thermal En Cons & PD
3. Electrical En Cons & PD
4. Resident Population & PD
5. Non-Resident Population & PD
6. Population Served** & PD
7. Effective Population*** & PD
8. En Consumption/Pop Served & PD
9. En Consumption/Resident Population
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity & PD
12. Elec Energy/Ton of Air Cond & PD
13. Real Property Inventory (RPI) & PD
14. RPI/Effective Population
15. Energy Consumption/GSF & PD
16. Thermal En Consumption/GSF & PD
17. Electrical En Consumption/GSF & PD
18. RPI by Category

Training
Maintenance & Production
Research, Development & Testing
Storage
Other Covered Storage
Hospital & Medical
Administration
Bachelor Housing
Community Facilities
Family Housing
Operational Buildings
Utility Buildings
Other

**Population Served is the total Resident & Non-Resident Population
***RPI Pop is Resident + 1/3 Non-Resident
*PD is Percent Deviation from Base Year

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - FT. MONROE, VA. - MACOM - TRADEC - CLIMATIC REGION 4 - HDD1_623 - CDD 1_532

UNITS/FY	76	78	77	78	78	78			
1. Energy Consumption & PD	340,137	169,241	(8.6)	400,144	(17.6)	331,221	(- 2.6)	319,113	(- 6.2)
2. Thermal En Cons & PD	153,082	169,851	(11.0)	200,072	(30.7)	139,118	(- 9.1)	137,219	(-10.4)
3. Electrical En Cons & PD	187,075	199,390	(6.6)	200,072	(6.9)	192,113	(2.7)	181,894	(- 2.8)
4. Resident Population & PD	1,981	1,890	(- 4.6)	877	(-55.7)	833	(-56.0)	833	(- 57.9)
5. Non-Resident Population & PD	2,560	2,554	(- 0.2)	5,911	(130.9)	2,611	(2.0)	2,384	(- 6.9)
6. Population Served** & PD	4,541	4,444	(- 2.1)	6,788	(49.5)	3,482	(-23.3)	3,217	(-29.2)
7. Effective Population*** & PD	2,834	2,741	(- 3.3)	2,847	(0.5)	1,742	(-38.5)	1,628	(-42.6)
8. En Consumption/Pop Served & PD	74.9	83.1	(10.9)	58.9	(-21.3)	95.1	(27.0)	99.2	(32.4)
9. En Consumption/En Pop & PD	120.0	134.7	(12.2)	140.5	(17.1)	190.1	(58.4)	196.0	(63.3)
10. Electric En Consumption/Resident Population	94.4	105.5	(11.7)	228.1	(141.6)	220.3	(133.2)	218.4	(131.2)
11. Installed Air Cond Capacity & PD	1,166	1,166	(0)	1,576	(35.2)	1,576	(35.2)	2,309	(98.0)
12. Elec Energy/ton of Air Cond & PD	160.4	171.0	(6.6)	126.9	(-20.9)	121.9	(-24.0)	28.8	(-50.9)
13. Real Property Inventory (RPI) & PD	1,922	1,922	(0)	1,966	(2.3)	1,957	(1.8)	1,953	(1.9)
14. RPI/Effective Population	68	70	(3.4)	69	(1.8)	1,112	(68)	1,201	(76.9)
15. Energy Consumption/GSF & PD	176,970	192,113	(8.6)	203,532	(15.0)	169,254	(- 4.4)	163,396	(- 7.7)
16. Thermal En Consumption/GSF & PD	79,637	88,372	(11.0)	101,766	(27.8)	71,087	(-10.7)	70,261	(-11.8)
17. Electrical En Consumption/GSF & PD	97,333	103,741	(6.6)	101,766	(4.6)	98,167	(0.9)	93,135	(- 4.3)
18. RPI by Category									
Training	3	3		3		3		3	
Maintenance & Production	141	141		151		151		153	
Research, Dev, Support & Testing	10	10		9		9		9	
Storage	131	131		6		6		6	
Other Covered Storage				BASE		117		114	
Hospital & Medical	70	70		38		38		38	
Administration	385	385		466		460		460	
Bachelor Housing	203	203		141		151		151	
Community Facilities	268	268		271		275		275	
Family Housing	642	642		638		623		616	
Operational Buildings	18	18		41		41		42	
Utility Buildings	51	51		51		47		47	
Other	Not Available	Not Available		BASE		34		39	

- 1. Energy Consumption & PD
- 2. Thermal En Cons & PD
- 3. Electrical En Cons & PD
- 4. Resident Population & PD
- 5. Non-Resident Population & PD
- 6. Population Served** & PD
- 7. Effective Population*** & PD
- 8. En Consumption/Pop Served & PD
- 9. En Consumption/En Pop & PD
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity & PD
- 12. Elec Energy/ton of Air Cond & PD
- 13. Real Property Inventory (RPI) & PD
- 14. RPI/Effective Population
- 15. Energy Consumption/GSF & PD
- 16. Thermal En Consumption/GSF & PD
- 17. Electrical En Consumption/GSF & PD
- 18. RPI by Category

**Population Served is the total Resident & Non-Resident Population

**PD is Percent Deviation from Base Year

***En Pop is Resident + 1/3 Non-Resident

▲ FY 76 ECIP - Building & Heating System Improvements \$325,763 - Completed August 1977

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - FT. PICKETT, VA - MACOM - TRADOC - CLIMATIC REGION 4 - HDD 1,841 - CDD 1,319

UNITS/FY	76	76	77	78	78	78
1. Energy Consumption & PD	156,134	167,064	188,867	196,296	175,300	12,31
2. Thermal En Cons & PD	93,681	103,580	115,209	119,741	98,168	4,8
3. Electrical En Cons & PD	62,453	63,484	73,658	76,555	77,132	23,9
4. Resident Population & PD	1,622	1,327	1,039	1,096	1,114	31,3
5. Non-Resident Population & PD	609	1,071	1,059	1,025	1,145	88,0
6. Population Served** & PD	2,231	2,398	2,098	2,121	2,259	1,9
7. Effective Population*** & PD	1,825	1,684	1,392	1,438	1,496	18,0
8. En Consumption/Pop Served & PD	70,0	69,7	90,0	92,5	77,6	10,9
9. En Consumption/ERT Pop & PD	85,5	99,2	135,7	136,5	117,2	37,0
10. Electric En Cons. Impion/Resident Population	38,5	47,8	70,9	69,8	69,2	78,1
11. Installed Air Cond Capacity & PD	88	113	240	289	289	228,1
12. Elec Energy/Ton of Air Cond & PD	709,7	561,8	306,9	264,9	266,9	62,3
13. Real Property Inventory (RPI) & PD	1,393	2,859	2,859	2,938	2,965	112,8
14. RPI/Effective Population	.76	1,70	2,05	2,04	1,98	159,7
15. Energy Consumption/GSF & PD	112,085	58,434	66,060	66,813	59,123	47,3
16. Thermal En Consumption/GSF & PD	67,251	36,229	40,297	40,756	33,109	50,8
17. Electrical En Consumption/GSF & PD	44,834	22,205	25,763	26,057	26,014	42,0
18. RPI by Category						
Training	131	188	188	233	255	
Maintenance & Production	227	308	308	312	314	
Research, Development & Testing						
Storage	398	480	37	36	36	
Other Covered Storage						
Hospital & Medical						
Administration	7	22	443	447	449	
Bachelor Housing	91	60	60	62	63	
Community Facilities	373	1,402	1,402	1,401	1,402	
Family Housing	151	301	301	301	301	
Operational Buildings	15	16	16	16	16	
Utility Buildings		51	51	53	52	
Other		31	31	55	55	
Not Available						

- 1. Energy Consumption & PD
- 2. Thermal En Cons & PD
- 3. Electrical En Cons & PD
- 4. Resident Population & PD
- 5. Non-Resident Population & PD
- 6. Population Served** & PD
- 7. Effective Population*** & PD
- 8. En Consumption/Pop Served & PD
- 9. En Consumption/ERT Pop & PD
- 10. Electric En Cons. Impion/Resident Population
- 11. Installed Air Cond Capacity & PD
- 12. Elec Energy/Ton of Air Cond & PD
- 13. Real Property Inventory (RPI) & PD
- 14. RPI/Effective Population
- 15. Energy Consumption/GSF & PD
- 16. Thermal En Consumption/GSF & PD
- 17. Electrical En Consumption/GSF & PD
- 18. RPI by Category

Training
Maintenance & Production
Research, Development & Testing
Storage
Other Covered Storage
Hospital & Medical
Administration
Bachelor Housing
Community Facilities
Family Housing
Operational Buildings
Utility Buildings
Other

PD is Percent Deviation from Base Year *Population Served is the total Resident & Non-Resident Population ****ERT Pop is Resident + 1/2 Non-Resident

REMARKS

UNITS/SPY	76	76	77	78	78	78
MRTU	1,942,689	1,876,505 (-3.4)	1,996,469 (2.8)	2,010,497 (3.5)	1,988,947 (-2.4)	
MRTU	913,064	863,191 (-5.5)	898,412 (1.6)	884,619 (-3.1)	855,248 (-6.3)	
MRTU	1,029,625	1,013,312 (-1.6)	1,098,057 (6.6)	1,125,878 (9.3)	1,133,699 (+10.0)	
PEOPLE	11,369	10,845 (-4.6)	10,809 (-4.9)	11,384 (0.1)	11,549 (1.6)	
PEOPLE	9,629	9,753 (1.3)	9,448 (-3.1)	9,327 (-1.1)	9,430 (1.1)	
PEOPLE	20,998	20,598 (-1.9)	20,257 (-1.5)	20,911 (0.4)	20,979 (0.1)	
PEOPLE	14,579	14,096 (-3.3)	13,938 (-4.3)	14,560 (0.1)	14,692 (0.8)	
MRTUCAP	92.5	91.1 (-1.5)	98.6 (6.5)	96.1 (-3.9)	94.8 (-2.5)	
MRTUCAP	131.3	131.1 (-0.1)	143.0 (7.3)	138.1 (3.6)	135.4 (-1.6)	
MRTUCAP	90.6	93.4 (3.2)	101.6 (12.2)	98.9 (-2.1)	98.2 (-0.7)	
TONS	13,434	14,130 (5.2)	15,052 (12.0)	15,052 (12.0)	15,044 (-0.1)	
MRTUTION	76.6	71.7 (-6.4)	72.9 (-4.8)	74.8 (2.4)	75.4 (0.8)	
MRTUTION	7,203	7,273 (1.0)	8,202 (13.9)	7,870 (4.0)	8,205 (4.2)	
KSPICAP	49	55 (11.6)	59 (18.9)	54 (-9.4)	59 (13.0)	
BTUGSF	269,706	241,413 (-10.5)	243,412 (0.8)	255,463 (5.0)	242,407 (-10.1)	
BTUGSF	126,762	111,050 (-12.4)	109,536 (-13.6)	112,404 (2.6)	104,235 (-17.8)	
BTUGSF	142,944	130,363 (-8.8)	133,876 (2.4)	143,059 (7.5)	138,172 (-4.1)	
KSF	708	703	763	711	781	
KSF	937	763	838	853	848	
KSF	53	53	56	56	51	
KSF	637	508	14	14	14	
KSF	Not Available	Not Available	Not Available	Not Available	Not Available	
KSF	265	375	377	345	311	
KSF	283	319	388	399	374	
KSF	1,772	1,143	2,188	1,959	2,088	
KSF	530	650	674	655	666	
KSF	2,080	2,076	2,074	2,075	2,086	
KSF	105	108	149	120	212	
KSF	34	67	56	59	61	
KSF	Not Available	Not Available	Not Available	Not Available	Not Available	

- 1. Energy Consumption @ PD
- 2. Thermal En Cons @ PD
- 3. Electrical En Cons @ PD
- 4. Resident Population @ PD
- 5. Non-Resident Population @ PD
- 6. Population Served** @ PD
- 7. Effective Population*** @ PD
- 8. En Consumption/Pop Served @ PD
- 9. En Consumption/Resident Pop @ PD
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity @ PD
- 12. Elec Energy/Ton of Air Cond @ PD
- 13. Real Property Inventory (RPI) @ PD
- 14. RPI/Effective Population
- 15. Energy Consumption/GSF @ PD
- 16. Thermal En Consumption/GSF @ PD
- 17. Electrical En Consumption/GSF @ PD
- 18. RPI by Category

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS

U.S. Army -- ANALYSIS OF ENERGY CONSUMPTION -- INSTALLATION -- ET. SIML. OK -- MACOM -- TRADOC -- CLIMATIC REGION 7 -- HDD 3,367 CDD 2,217

UNITSIFY	76	77	78	79	78	79
1. Energy Consumption @ PD	2,611,504	2,902,547	3,001,398	3,001,398	14,911	2,899,301
2. Thermal En Cons @ PD	1,436,328	1,451,274	1,470,686	1,470,686	2,411	1,507,637
3. Electrical En Cons @ PD	1,175,176	1,451,273	1,530,712	1,530,712	30,311	1,391,664
4. Resident Population @ PD	15,785	19,586	17,997	17,997	14,011	18,409
5. Non-Resident Population @ PD	13,544	12,482	12,022	12,022	11,211	11,976
6. Population Served** @ PD	29,329	32,068	30,019	30,019	2,411	30,385
7. Effective Population*** @ PD	20,300	23,747	22,004	22,004	8,411	22,401
8. En Consumption/Pop Served @ PD	89.0	90.5	100.0	100.0	12.31	95.4
9. En Consumption/Resident Pop @ PD	128.6	122.2	136.4	136.4	6.01	129.4
10. Electric En Consumption/Resident Population	74.4	74.1	85.1	85.1	14.21	75.6
11. Installed Air Cond Capacity @ PD	16,820	18,974	18,967	18,967	12.81	18,967
12. Elec Energy/Ton of Air Cond @ PD	59.9	76.7	80.7	80.7	15.51	73.4
13. Real Property Inventory (RPI) @ PD	13,180	13,672	13,655	13,655	3.61	13,721
14. RPI/Effective Population	.65	.58	.62	.62	4.41	.61
15. Energy Consumption/GSF @ PD	198,141	212,299	219,802	219,802	10.91	211,304
16. Thermal En Consumption/GSF @ PD	108,978	106,149	107,703	107,703	1.21	109,878
17. Electrical En Consumption/GSF @ PD	89,163	106,149	112,099	112,099	25.71	101,426
18. RPI by Category						
Training	1,672	1,681	1,782	1,782		1,734
Maintenance & Production	1,165	1,169	1,186	1,186		1,10
Research, Development & Testing	1	11	11	11		83
Storage	941	83	86	86		900
Other Covered Storage						
Hospital & Medical						
Administration						
Bachelor Housing						
Community Facilities						
Family Housing						
Operational Buildings						
Utility Buildings						
Other						

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***En Pop is Resident + 1/2 Non-Resident

REMARKS
 FY 77 ECIP - Insulation - \$100,000 - Completed (estimated) June 1978
 FY 76 ECIP - Building and Heating System Improvements \$4,008,326 - Completed October 1978

UNITS/FY	75	76	77	78	79
1 Energy Consumption & PD	2,816,361	2,715,230	2,916,003	2,932,550	2,813,207
2 Thermal En Cons & PD	1,633,490	1,493,377	1,545,959	1,554,252	1,462,868
3 Electrical En Cons & PD	1,182,871	1,221,853	1,370,044	1,378,298	1,350,339
4 Resident Population & PD	23,849	27,185	28,308	24,498	22,113
5 Non-Resident Population & PD	5,458	5,954	6,370	5,334	2,331
6 Population Served** & PD	31,307	33,139	34,678	29,852	24,461
7 Effective Population*** & PD	27,668	29,170	30,431	26,282	22,897
8 En Consumption/Pop Served & PD	89.9	81.9	84.1	88.2	92.1
9 En Consumption/Resident Population	101.2	93.1	95.9	111.6	122.9
10 Electric En Consumption/Resident Population	45.8	44.9	48.4	56.3	61.1
11 Installed Air Cond Capacity & PD	9,445	9,445	10,748	10,829	16,562
12 Elec Energy/Ton of Air Cond & PD	125.2	129.4	127.6	127.3	81.5
13 Real Property Inventory (RPI) & PD	11,783	11,738	14,038	11,626	12,540
14 RPI/Effective Population	.43	.40	.46	.44	.55
15 Energy Consumption/GSF & PD	239,019	231,320	207,786	252,241	224,339
16 Thermal En Consumption/GSF & PD	138,631	127,226	110,127	133,688	116,656
17 Electrical En Consumption/GSF & PD	100,388	104,094	97,659	118,553	107,683
18 RPI by Category					
Training	979	961	1,073	1,109	1,146
Maintenance & Production	519	525	526	522	532
Research, Development & Testing					
Storage	611	579	18	18	50
Other Covered Storage					
Hospital & Medical					
Administration					
Scholar Housing					
Community Facilities					
Family Housing					
Operational Buildings					
Utility Buildings					
Other					

Population Served is the total Resident & Non-Resident Population *Eff Pop is Resident + 1/3 Non-Resident
 *PD is Percent Deviation from Base Year

FY 77 ECIP - Insulation, Storms, Boiler Plant Alterations and Energy Monitoring/Control System - \$5,289,722 - Completed (estimated) June 1978

REMARKS

U.S. Army -- ANALYSIS OF ENERGY CONSUMPTION -- INSTALLATION ABERDEEN PROVING GROUNDS, MD MACOM DARCOM CLIMATIC REGION 3 HDD 5,184 CDD 1,076

UNIT/TYPE	76	76	77	78	78	78
1. Energy Consumption @ PD	3,885,348	3,557,310	3,718,361	3,789,004	3,639,323	(-6.3)
2. Thermal En Cons @ PD	2,467,896	2,134,386	2,342,568	2,387,073	2,236,381	(-7.8)
3. Electrical En Cons @ PD	1,417,452	1,422,924	1,375,793	1,401,931	1,382,942	(-3.8)
4. Resident Population @ PD	9,480	10,314	11,989	8,570	7,849	(-17.2)
5. Non-Resident Population @ PD	16,535	18,414	19,443	24,129	28,356	(71.5)
6. Population Served** @ PD	26,015	28,728	31,432	32,699	36,205	(39.2)
7. Effective Population*** @ PD	16,992	16,452	18,470	16,613	17,301	(5.4)
8. En Consumption/Pop Served @ PD	149.4	123.8	117.1	118.3	100.5	(-32.7)
9. En Consumption/Resident Population	259.2	216.2	201.3	228.3	210.4	(-18.8)
10. Electric En Consumption/Resident Population	151.7	138.0	114.8	163.6	176.2	(16.2)
11. Heated Air Cond Capacity @ PD	22,452	26,787	27,757	27,762	28,448	(26.7)
12. Elec Energy/Ten of Air Cond @ PD	64.0	53.1	49.6	50.4	48.6	(-24.1)
13. Heat Property Inventory (RHS) @ PD	11,745	11,727	11,440	11,560	11,547	(-1.7)
14. InEffective Population	78	71	62	70	67	(-14.8)
15. Energy Consumption/GSF @ PD	330,825	303,343	325,031	327,766	315,174	(-4.7)
16. Thermal En Consumption/GSF @ PD	208,420	182,006	204,769	206,494	195,408	(-6.2)
17. Electrical En Consumption/GSF @ PD	122,405	121,337	120,261	121,272	119,766	(-2.3)
18. IPT by Category	999	998	982	1,020	997	
Training						
Maintenance & Production	954	933	928	887	881	
Research, Development & Testing	2,179	2,207	2,127	2,302	2,307	
Storage	2,061	2,031	383	282	280	
Other Covered Storage			BASE	1,792	1,825	
Hospital & Medical	236	236	221	178	174	
Administration	1,045	1,020	970	936	923	
Bachelor Housing	1,233	1,145	1,066	1,103	1,077	
Community Facilities	715	724	700	688	758	
Family Housing	1,980	1,977	1,881	1,881	1,880	
Operational Buildings	212	202	191	192	185	
Utility Buildings	131	227	248	255	260	
Other			27	44		

*PD @ Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop @ Resident + 1/3 Non-Resident

REMARKS
 FY 77 ECIP - Storm Sash - \$642,510 - Completed (estimated) June 1978
 FY 77 Family Housing ECIP Improvements - \$119,070 - Completed (estimated) October 1978

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION ALABAMA ARMY DEPOT, AL. MACOM_DARGON CLIMATIC REGION 4 HDD 2,806 CDD 1,886

UNITSARY	76	76	77	78	79
1. Energy Consumption & PD	15,341	(-71.3)	5,699	(-62.9)	(-)
2. Thermal En Core & PD	7,211	(-98.8)	3,162	(-67.8)	(-)
3. Electrical En Core & PD	8,130	(-46.9)	1,917	(-76.2)	(-)
4. Resident Population & PD	0	0	0	0	(-)
5. Non-Resident Population & PD	41	(-51.2)	20	(-51.2)	(-)
6. Population Serv ^{ce} & PD	41	(-51.2)	20	(-51.2)	(-)
7. Effective Population*** & PD	14	(-50.0)	7	(-50.0)	(-)
8. En Consumption/Pop Served & PD	374.2	(-41.1)	284.95	(-23.8)	(-)
9. En Consumption/Res Pop & PD	1,095.8	(-42.6)	814.1	(-25.7)	(-)
10. Electric En Consumption/Resident Population	-	-	-	-	(-)
11. Installed Air Cond Capacity & PD	-	-	-	-	(-)
12. Elec Energy/ton of Air Cond & PD	-	-	-	-	(-)
13. Real Property Inventory (RPI) & PD	1,739	-	-	-	(-)
14. RPI/Effective Population	124.2	-	-	-	(-)
15. Energy Consumption/GSF & PD	8,821.7	-	-	-	(-)
16. Thermal En Consumption/GSF & PD	4,146.6	-	-	-	(-)
17. Electrical En Consumption/GSF & PD	4,675.1	-	-	-	(-)
18. RPI by Category	-	-	-	-	(-)
Training	-	-	-	-	(-)
Maintenance & Production	1,214	-	-	-	(-)
Research, Development & Testing	-	-	-	-	(-)
Storage	175	-	-	-	(-)
Other Covered Storage	-	-	-	-	(-)
Hospital & Medical	12	-	-	-	(-)
Administration	66	-	-	-	(-)
Bachelor Housing	-	-	-	-	(-)
Community Facilities	18	-	-	-	(-)
Family Housing	-	-	-	-	(-)
Operational Buildings	-	-	-	-	(-)
Utility Buildings	254	-	-	-	(-)
Other	Not Available	-	-	-	(-)

PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population *Eff Pop = Resident + 1/3 Non-Resident

REMARKS In caretaker status since FY76.

UNITS/FY	75	76	77	78	79
1. Energy Consumption & PD	890,669	905,651	1,020,164	964,822	876,935
2. Thermal En. Cons & PD	438,615	425,656	499,881	453,467	385,852
3. Electrical En Cons & PD	472,054	479,995	520,283	511,355	491,083
4. Resident Population & PD	20	17	17	15	15
5. Non-Resident Population & PD	4,680	4,623	5,102	5,046	4,837
6. Population Serv*** & PD	4,700	4,640	5,119	5,061	4,852
7. Effective Population*** & PD	1,580	1,558	1,718	1,697	1,627
8. En Consumption/Pop Servd & PD	189.5	195.2	199.3	190.6	180.7
9. En Consumption/ET Pop & PD	563.7	581.3	595.8	568.5	538.9
10. Electric En Consumption/Resident Population	23,602.7	28,235.0	30,604.9	34,090.3	32,738.9
11. Installed Air Cond Capacity & PD	1,924	1,924	2,330	2,330	2,330
12. Elec Energy/Ton of Air Cond & PD	245.4	249.5	223.3	219.5	210.8
13. Real Property Inventory (RPI) & PD	8,164	8,021	8,189	8,184	8,286
14. RPI/Effective Population	5.17	5.15	4.77	4.82	5.09
15. Energy Consumption/GSF & PD	109,097	112,909	125,577	117,891	105,833
16. Thermal En Consumption/GSF & PD	51,276	53,067	61,942	55,408	46,567
17. Electrical En Consumption/GSF & PD	57,821	59,842	63,634	62,482	59,266
18. RPI by Category					
Training	8	8	8	8	10
Maintenance & Protection	1,204	1,123	1,207	1,208	1,247
Research, Development & Testing	-	-	-	-	-
Storage	5,683	6,199	3,088	3,088	3,088
Other Covered Storage	-	-	-	-	-
Hospital & Medical	-	-	-	-	-
Administration	-	-	-	-	-
Bachelor Housing	-	-	-	-	-
Community Facilities	-	-	-	-	-
Family Housing	-	-	-	-	-
Operational Buildings	-	-	-	-	-
Utility Buildings	-	-	-	-	-
Other	-	-	-	-	-
BASE	1,208	1,208	1,208	1,208	1,208
Not Available	-	-	-	-	-

**Population Served is the total Resident & Non-Resident Population
 ***ET Pop a Resident + 1/2 Non-Resident
 *PD is Percent Deviation from Base Year

1. Energy Consumption & PD
2. Thermal En. Cons & PD
3. Electrical En Cons & PD
4. Resident Population & PD
5. Non-Resident Population & PD
6. Population Serv*** & PD
7. Effective Population*** & PD
8. En Consumption/Pop Servd & PD
9. En Consumption/ET Pop & PD
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity & PD
12. Elec Energy/Ton of Air Cond & PD
13. Real Property Inventory (RPI) & PD
14. RPI/Effective Population
15. Energy Consumption/GSF & PD
16. Thermal En Consumption/GSF & PD
17. Electrical En Consumption/GSF & PD
18. RPI by Category

REMARKS

U.S. Arm - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION

ARMY MATERIALS & MECHANICS
RESEARCH CENTER, VA

MACOM

DARCOM

CLIMATIC REGION 2

HDD 5,621 CDD

661

UNITS/FY	76	77	78	79	80
MRTU	183,919	183,150	183,150	183,150	183,150
MRTU	108,256	108,379	108,379	108,379	108,379
MRTU	81,663	78,761	78,761	78,761	78,761
PEOPLE	11	18	19	21	23
PEOPLE	632	651	622	629	645
PEOPLE	645	669	641	632	670
PEOPLE	224	235	226	233	240
MRTUCAP	294.4	273.7	332.5	339.8	302.1
MRTUCAP	867.8	779.2	943.1	931.0	863.4
MRTUCAP	6,281.9	4,374.5	4,599.5	3,853.6	3,400.6
TONS	855	855	855	855	855
MRTUTON	95.5	92.1	102.2	103.7	99.4
KSF	685.5	685.5	685.5	685.5	685.5
KSF	3.06	2.91	3.03	2.94	2.85
BTU/GSF	277,254	267,328	311,167	323,477	295,503
BTU/GSF	158,035	152,378	183,590	194,087	171,393
BTU/GSF	119,219	114,950	127,578	129,389	124,111
KSF	7	7	7	7	7
KSF	39	39	39	39	39
KSF	382	382	382	382	382
KSF	66	66	66	66	66
KSF	3	3	3	3	3
KSF	89	89	77	77	77
KSF	46	46	46	46	46
KSF	10	10	22	22	22
KSF	1	1	1	1	1
KSF	42	42	42	42	42
Not Available					

1. Energy Consumption & PD
2. Thermal En Cons & PD
3. Electrical En Cons & PD
4. Resident Population & PD
5. Non-Resident Population & PD
6. Population Saved*** & PD
7. Effective Population*** & PD
8. En Consumption/Pop Saved & PD
9. En Consumption/En Pop & PD
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity & PD
12. Disc Energy/Ton of Air Cond & PD
13. Heat Property Inventory (HPH) & PD
14. Ineffective Population
15. Energy Consumption/GSF & PD
16. Thermal En Consumption/GSF & PD
17. Electrical En Consumption/GSF & PD
18. EPH by Category

- Training
- Maintenance & Production
- Research, Development & Testing
- Storage
- Other Covered Storage
- Hospital & Medical
- Administration
- Bachelor Housing
- Community Facilities
- Family Housing
- Operational Buildings
- Utility Buildings
- Other

*PD is Percent Deviation from Base Year

**Population Saved is the total Resident & Non-Resident Population

***EPH Pop is Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - RADGER AAF, KT - MACOM - DARCOM - CLIMATIC REGION 1 - HDD 7,382 CDD 631

UNITS/FY	76	78	77	78	79
MBTU	1,639,885	327,507	-80.0	184,704	-88.7
MBTU	1,393,903	238,731	-81.4	127,446	-90.9
MBTU	245,982	68,776	-72.0	57,258	-76.7
PEOPLE	0	0	0	0	0
PEOPLE	411	283	-31.1	211	-48.7
PEOPLE	411	283	-31.1	211	-48.7
PEOPLE	137	96	-31.4	70	-48.9
MBTUCAP	3,989.9	3,157.3	-21.0	678.9	-83.0
MBTUCAP	11,970.0	3,486.1	-71.0	2,036.9	-83.0
TONS	410	410	0	410	0
MBTUCAP	609.0	167.7	-72.0	139.7	-76.7
KSF	4,060	4,048	-0.3	4,056	0.1
KSF	29,64	43,06	43.3	13,29	-55.2
BTUGSF	403,913	80,906	-80.0	45,561	-88.7
BTUGSF	343,326	63,916	-81.4	31,437	-90.8
KSF	60,587	16,990	-72.0	14,124	-76.7
KSF	11	11	0	11	0
KSF	2,974	2,973	-0.0	2,971	-0.1
KSF	518	518	0	294	-43.2
KSF	11	11	0	224	20.4
KSF	145	145	0	153	5.4
KSF	65	54	-16.9	54	0
KSF	28	46	64.3	46	0
KSF	308	290	-5.8	290	0

1. Energy Consumption & PD
2. Thermal En Cons & PD
3. Electrical En Cons & PD
4. Resident Population & PD
5. Non-Resident Population & PD
6. Population Served** & PD
7. Effective Population*** & PD
8. En Consumption/Pop Served & PD
9. En Consumption/ER Pop & PD
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity & PD
12. Elec Energy/Ton of Air Cond & PD
13. Real Property Inventory DPM & PD
14. Ineffective Population
15. Energy Consumption/GSF & PD
16. Thermal En Consumption/GSF & PD
17. Electrical En Consumption/GSF & PD
18. Net by Category

- Training
- Maintenance & Production
- Research, Development & Testing
- Storage
- Other Covered Storage
- Hospital & Medical
- Administration
- Bachelor Housing
- Community Facilities
- Family Housing
- Operational Buildings
- Utility Building¹
- Other

**Population Served is the total Resident & Non-Resident Population
 ***ER Pop is Resident + 1/3 Non-Resident
 1. PD is Percent Deviation from Base Year

REMARKS

UNITS/FY	76	78	77	78	78	78
1. Energy Consumption @ PD	43,133	34,811	33,837	-21,611	34,600	43,757
2. Thermal En Cons @ PD	27,176	21,235	20,979	-22,811	21,452	25,817
3. Electrical En Cons @ PD	15,959	13,576	12,858	-19,411	13,148	17,940
4. Resident Population @ PD	41	44	43	4,911	35	40
5. Non-Resident Population @ PD	114	97	92	-19,311	89	171
6. Population Served** @ PD	155	141	135	-12,911	124	211
7. Effective Population*** @ PD	79	76	74	-6,311	65	97
8. En Consumption/Pop Served @ PD	278.3	246.9	230.6	-9,911	279.0	207.4
9. En Consumption/Pop @ PD	545.9	458.0	437.3	-16,311	532.3	451.1
10. Electric En Consumption/Resident Population	389.2	308.5	299.0	-23,211	375.7	448.5
11. Installed Air Cond Capacity @ PD	42	42	42	0	42	44
12. Elec Energy/Ten of Air Cond @ PD	379.9	323.2	306.1	-14,911	313.0	407.7
13. Fuel Property Inventory BHP @ PD	324	335	428	32,111	470	239
14. BHP/Effective Population	4.10	4.41	5.78	41,011	7.23	2.46
15. Energy Consumption/GSF @ PD	133,126	103,913	79,098	-40,611	73,617	183,083
16. Thermal En Consumption/GSF @ PD	83,870	63,388	49,016	-24,411	49,642	108,020
17. Electrical En Consumption/GSF @ PD	49,256	40,525	30,082	-17,711	23,974	75,062
18. EPI by Category						
Training						
Maintenance @ Production	125	126	203		213	61
Research, Development & Testing						
Storage	136		8		40	
Other Covered Storage						
Hospital & Medical		141	141	BASE	141	120
Administration			6		6	
Scholar Housing	6	14	14		14	2
Community Facilities						
Family Housing	18	18	18		18	18
Operational Buildings	29	29	29		29	29
Utility Buildings	2	2	2		2	2
Other	Not Available	8	7		7	7

**Population Served is the total Resident & Non-Resident Population
 ***EPI Pop is Resident + 1/3 Non-Resident
 *PD is Percent Deviation from Base Year

REMARKS

UNITS/FY	75	76	77	78	79	80
1. Energy Consumption @ PD	1,206,402	1,356,200	1,436,062	1,415,771	1,441,529	1,441,529
2. Thermal En Cons @ PD	800,898	867,368	904,720	863,621	864,918	864,918
3. Electrical En Cons @ PD	405,504	488,232	531,342	552,150	576,611	576,611
4. Resident Population @ PD	980	980	1	1	1	1
5. Non-Resident Population @ PD	4,403	5,487	4,080	5,345	6,184	6,184
6. Population Served** @ PD	5,383	5,487	4,081	5,345	6,184	6,184
7. Effective Population*** @ PD	2,448	1,829	1,361	1,848	2,065	2,065
8. En Consumption/Pop Served @ PD	232.4	247.2	351.9	255.3	232.7	232.7
9. En Consumption/Resident Population	311.2	741.5	1,055.2	766.1	698.1	698.1
10. Electric En Consumption/Resident Population	459.7	-	-	-	-	-
11. Installed Air Cond Capacity @ PD	2,117	2,117	2,117	2,117	2,117	2,117
12. Elec Energy/Ton of Air Cond @ PD	212.8	230.6	253.0	253.0	253.0	253.0
13. Real Property Inventory (RPI) @ PD	1,968	1,310	1,308	1,308	1,308	1,308
14. RPI/Effective Population	80	72	96	71	63	63
15. Energy Consumption/GSF @ PD	635,875	1,035,267	1,097,906	1,082,393	1,102,086	1,102,086
16. Thermal En Consumption/GSF @ PD	406,960	662,570	691,681	660,261	661,252	661,252
17. Electrical En Consumption/GSF @ PD	228,914	372,696	406,225	422,133	440,834	440,834
18. RPI by Category	31	31	31	31	31	31
Training	184	160	160	160	160	160
Maintenance & Production	161	346	346	346	346	346
Research, Development & Testing	765	161	-	-	-	-
Storage	Not Available Separately Included Above	BASE	161	161	161	161
Hospital & Medical	5	5	5	5	5	5
Administration	553	529	529	529	529	529
Bachelor Housing	10	28	28	28	28	28
Community Facilities	19	18	18	18	18	18
Family Housing	33	25	23	23	23	23
Operational Buildings	7	7	7	7	7	7
Utility Buildings	Not Available	BASE	-	-	-	-
Other	Not Available	BASE	-	-	-	-

- 1. Energy Consumption @ PD
- 2. Thermal En Cons @ PD
- 3. Electrical En Cons @ PD
- 4. Resident Population @ PD
- 5. Non-Resident Population @ PD
- 6. Population Served** @ PD
- 7. Effective Population*** @ PD
- 8. En Consumption/Pop Served @ PD
- 9. En Consumption/Resident Population
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity @ PD
- 12. Elec Energy/Ton of Air Cond @ PD
- 13. Real Property Inventory (RPI) @ PD
- 14. RPI/Effective Population
- 15. Energy Consumption/GSF @ PD
- 16. Thermal En Consumption/GSF @ PD
- 17. Electrical En Consumption/GSF @ PD
- 18. RPI by Category

PD @ Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop @ Resident + 1/3 Non-Resident

REMARKS FY 77 ECIP - Insulation - \$175,000 - Completed (estimated) June 1978
 FY 78 ECIP - Energy Monitoring and Control System - \$204,000 - Completed (estimated) December 1979

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION HARRY DIAMOND LAB, MD MACOM DARC0M CLIMATIC REGION 3 HDD 1,443 CDD 1,163

UNITS/FY	75	76	77	78	79				
MRTU	195,424	279,682	(63.11)	462,203	(136.51)	462,165	(136.51)	430,943	(120.01)
MRTU	70,333	89,499	(27.21)	171,016	(143.11)	151,738	(129.91)	159,283	(134.01)
MRTU	125,071	190,183	(52.11)	291,187	(132.81)	300,407	(140.21)	302,660	(141.11)
PEOPLE	1,436	1,370	(-4.61)	1,330	(-7.41)	1,162	(-17.71)	1,191	(-17.11)
PEOPLE	1,436	1,370	(-4.61)	1,330	(-7.41)	1,162	(-17.71)	1,191	(-17.11)
PEOPLE	479	457	(-4.61)	443	(-7.51)	394	(-17.71)	397	(-17.11)
MRTUCAP	136.1	206.1	(50.01)	347.5	(155.41)	391.0	(187.31)	361.8	(165.91)
MRTUCAP	407.9	612.0	(50.01)	1,043.3	(155.71)	1,173.0	(187.51)	1,085.5	(166.01)
TONS	3,043	4,729	(55.41)	4,755	(56.31)	4,755	(56.31)	4,705	(54.61)
MRTUTON	41.1	40.2	(-2.21)	61.2	(49.01)	63.2	(53.71)	64.1	(56.01)
KSF	559	713	(27.51)	749	(34.01)	751	(34.31)	771	(37.91)
KSF	1,117	1,561	(33.71)	1,691	(44.91)	1,501	(63.31)	1,941	(66.51)
BTUGSF	349,596	392,261	(12.21)	617,093	(76.51)	615,399	(76.01)	556,040	(59.91)
BTUGSF	125,855	125,524	(-0.21)	226,326	(81.41)	215,390	(71.11)	167,682	(33.21)
BTUGSF	223,740	266,736	(19.21)	388,768	(73.71)	400,009	(78.81)	388,358	(74.91)
KSF									
KSF									
Maintenance & Production	29	22		22		24		22	
Research, Development & Testing	456	455		499		500		520	
Storage	27	81		2		3		3	
Other Covered Storage									
Hospital & Medical									
Administration									
Bachelor Housing	9	116		114		114		114	
Community Facilities	13	7		8		8		8	
Family Housing									
Operational Buildings									
Utility Buildings									
Other	18	25		25		25		25	
Not Available									

1. Energy Consumption & PD
2. Thermal En Cons & PD
3. Electrical En Cons & PD
4. Resident Population & PD
5. Non-Resident Population & PD
6. Population Services** & PD
7. Effective Population*** & PD
8. En Consumption (Pop Serv) & PD
9. En Consumption (ET Pop) & PD
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity & PD
12. Elec Energy/Ton of Air Cond & PD
13. Real Property Inventory (RPI) & PD
14. RPI/Effective Population
15. Energy Consumption/GSF & PD
16. Thermal En Consumption/GSF & PD
17. Electrical En Consumption/GSF & PD
18. RPI by Category

**PD is Percent Deviation from Base Year
 ***En Pop is Resident & Non-Resident Population

REMARKS

UNITS/FY	76	78	77	78	79
1. Energy Consumption & PD	844,502	780,225	707,486	349,090	76,094
2. Thermal En Cons & PD	506,702	468,115	466,941	226,909	5,327
3. Electrical En Cons & PD	337,800	312,090	240,545	122,181	70,767
4. Resident Population & PD	27	11	2	1	1
5. Non-Resident Population & PD	3,324	2,656	543	1	1
6. Population Served** & PD	3,351	2,667	545	1	1
7. Effective Population*** & PD	1,113	836	183	1	1
8. En Consumption/Pop Served & PD	252.0	292.5	1,298.1	1	1
9. En Consumption/Eff Pop & PD	744.1	870.8	3,856.0	1	1
10. Electric En Consumption/Resident Population	12,511.1	28,371.8	120,272.5	1	1
11. Installed Air Cond Capacity & PD	7,702	7,702	7,572	1	1
12. Elec Energy/Ton of Air Cond & PD	43.8	40.5	32.0	1	1
13. Real Property Inventory (RPI) & PD	2,604	2,587	2,479	1	1
14. RPI/Effective Population	2.29	2.89	13.55	1	1
15. Energy Consumption/GSF & PD	324,310	301,595	285,392	1	1
16. Thermal En Consumption/GSF & PD	194,586	180,957	188,259	1	1
17. Electrical En Consumption/GSF & PD	129,724	120,638	97,133	1	1
18. RPI by Category					
Training	32	32	32		
Maintenance & Production	1,052	1,052	1,049		
Research, Development & Testing	577	577	599		
Storage	196	195	15		
Other Covered Storage					
Hospital & Medical Administration	6	6	6		
Bachelor Housing	516	516	445		
Community Facilities	14	14			
Family Housing	50	50	46		
Operational Buildings	96	96	58		
Utility Buildings	1	1	1		
Other	64	48	48		
Net Available					
Net Available Separately Included Above					
BASE					

- 1. Energy Consumption & PD
- 2. Thermal En Cons & PD
- 3. Electrical En Cons & PD
- 4. Resident Population & PD
- 5. Non-Resident Population & PD
- 6. Population Served** & PD
- 7. Effective Population*** & PD
- 8. En Consumption/Pop Served & PD
- 9. En Consumption/Eff Pop & PD
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity & PD
- 12. Elec Energy/Ton of Air Cond & PD
- 13. Real Property Inventory (RPI) & PD
- 14. RPI/Effective Population
- 15. Energy Consumption/GSF & PD
- 16. Thermal En Consumption/GSF & PD
- 17. Electrical En Consumption/GSF & PD
- 18. RPI by Category

PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population *Eff Pop is Resident + 1/3 Non-Resident

REMARKS No Report for FY 78 as the Installation went into caretaker status in FY 79.

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION HOLSTON_AAP_TN MACOM_DARCOM CLIMATIC REGION 4_HDD 3,695 CDD 1,215

UNITS/FY	75	76	77	78	79
1 Energy Consumption & PD	7,061,995	5,217,011 (-26.11)	4,286,332 (-39.31)	4,127,715 (-41.61)	3,766,274 (-47.1)
2 Thermal En Cons & PD	5,002,636	4,382,290 (-12.21)	3,600,519 (-40.0)	3,508,558 (-41.61)	3,050,682 (-49.1)
3 Electrical En Cons & PD	1,059,299	834,721 (-21.21)	685,813 (-35.31)	619,157 (-41.61)	715,592 (-32.1)
4 Resident Population & PD	0	0	0	0	0
5 Non-Resident Population & PD	2,025	1,755 (-13.31)	1,553 (-23.31)	2,254 (11.31)	2,059 (-1.71)
6 Population Served*** & PD	2,025	1,755 (-13.31)	1,553 (-23.31)	2,254 (11.31)	2,059 (-1.71)
7 Electric Population*** & PD	675	585 (-13.31)	518 (-23.31)	751 (11.31)	686 (-1.71)
8 En Consumption/Pop Served & PD	3,487.4	2,972.7 (-14.81)	2,760.0 (-20.91)	1,831.3 (-47.51)	1,829.2 (-47.5)
9 En Consumption/Eff Pop & PD	10,462.2	8,918.0 (-14.81)	8,124.8 (-20.91)	5,496.3 (-47.51)	5,490.2 (-47.5)
10 Electric En Consumption/Resident Population	-	-	-	-	-
11 Installed Air Cond Capacity & PD	180	180 (0)	180 (0)	180 (0)	180 (0)
12 Elec Energy/Ton of Air Cond & PD	5,885.0	4,637.3 (-21.21)	3,810.1 (-35.31)	3,439.8 (-41.61)	3,915.5 (-32.4)
13 Real Property Inventory (RPI) & PD	2,449	2,457 (0.31)	2,053 (-16.21)	2,416 (-1.31)	2,466 (1.6)
14 RPI/Effective Population	3.63	4.20 (15.81)	3.96 (9.21)	3.27 (-11.31)	3.63 (-0.06)
15 Energy Consumption/GSF & PD	2,881,624	2,123,326 (-26.41)	2,087,838 (-27.61)	1,708,491 (-40.81)	1,513,776 (-50.0)
18 Thermal En Consumption/GSF & PD	2,431,080	1,783,594 (-27.21)	1,753,784 (-28.41)	1,452,218 (-40.81)	1,226,158 (-50.0)
17 Electrical En Consumption/GSF & PD	449,544	339,732 (-24.51)	334,054 (-24.8)	256,274 (-43.08)	287,617 (-33.5)
18 RPI by Category					
Training	9	9	9	9	9
Maintenance & Production	1,371	1,378	976	1,358	1,414
Research, Development & Testing	25	25	26	-	52
Storage	509	509	215	215	215
Other Covered Storage			215	215	215
Hospital & Medical	12	12	12	12	12
Administration	110	110	126	132	128
Bachelor Housing					
Community Facilities	64	57	57	57	32
Family Housing					
Operational Buildings	10	20	20	20	23
Utility Buildings	339	337	337	338	334
Other	Not Available	BASE	BASE	BASE	BASE

PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population *Eff Pop is Resident + 1/3 Non-Resident

REMARKS

UNITS/FY	76	77	78	79	80
1. Energy Consumption & PD	515,026	406,338	347,260	391,877	381,599
2. Thermal En Cons & PD	293,565	247,867	184,313	227,289	206,064
3. Electrical En Cons & PD	221,461	158,471	163,447	164,588	175,535
4. Resident Population & PD	204	204	204	204	203
5. Non-Resident Population & PD	3,208	1,040	1,040	1,441	1,451
6. Population Served*** & PD	3,412	1,244	1,244	1,645	1,654
7. Effective Population*** & PD	1,273	551	551	684	687
8. En Consumption/Pop Served & PD	150.9	279.5	279.5	236.9	230.7
9. En Consumption/Eff Pop & PD	404.6	631.1	631.1	572.9	555.5
10. Electric En Consumption/Resident Population	1,085.6	801.2	801.2	806.8	864.7
11. Installed Air Cond Capacity & PD	1,002	1,388	1,388	1,390	1,390
12. Elec Energy/Ton of Air Cond & PD	221.0	117.8	117.8	118.4	126.3
13. Real Property Inventory (RPI) & PD	4,670	4,660	4,660	4,676	4,691
14. RPI/Effective Population	3.67	3.80	3.80	3.71	3.71
15. Energy Consumption/GSF & PD	110.284	74.627	74.627	83.806	81.347
16. Thermal En Consumption/GSF & PD	62.862	93.552	93.552	48.608	43.928
17. Electrical En Consumption/GSF & PD	67.422	35.074	35.074	35.198	37.420
18. RPI by Category					
Training	3	3	3	3	2
Maintenance & Production	2,297	2,287	2,287	2,331	2,329
Research, Development & Testing	4	4	4	4	4
Storage	1,511	1,510	1,510	771	774
Other Covered Storage				706	719
Hospital & Medical	20	20	20	20	20
Administration	189	190	190	191	191
Residential Housing					
Community Facilities	200	200	200	199	198
Family Housing	115	115	115	115	114
Operational Buildings	8	8	8	12	8
Utility Buildings	323	319	319	324	329
Other					

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS

UNITS/RY	76	76	77	78	79
MBTU	96,171	78,218 (-18.7)	81,306 (-15.5)	94,847 (-1.4)	68,124 (-29.2)
Thermal En Core & PD	55,780	40,674 (-27.1)	47,158 (-15.5)	63,348 (-13.9)	38,150 (-31.6)
Electrical En Core & PD	40,391	37,544 (-7.0)	34,148 (-15.5)	31,499 (-22.5)	29,974 (-25.8)
PEOPLE	62	49 (-21.0)	39 (-37.1)	28 (-54.8)	31 (-50.0)
PEOPLE	547	457 (-16.5)	398 (-27.2)	359 (-34.4)	352 (-35.6)
PEOPLE	609	506 (-16.9)	437 (-28.2)	387 (-36.5)	371 (-37.1)
PEOPLE	244	201 (-17.6)	172 (-29.5)	148 (-39.3)	148 (-39.3)
MRTU/CAP	157.9	134.6 (-15.4)	136.1 (-13.8)	145.1 (-8.2)	177.9 (12.6)
MRTU/CAP	394.1	389.1 (-1.3)	472.7 (19.9)	640.9 (62.6)	460.3 (-16.8)
MRTU/CAP	651.5	766.2 (17.6)	875.6 (34.4)	1,117.8 (27.6)	966.9 (-14.4)
TONS	665	665 (0.0)	665 (0.0)	665 (0.0)	665 (0.0)
MRTU/TON	60.7	56.5 (-7.0)	51.4 (-15.5)	47.1 (-22.5)	45.1 (-25.8)
KSF	675	707 (4.7)	697 (-1.3)	697 (-1.3)	679 (-0.6)
KSF/CAP	2.77	3.52 (27.1)	4.05 (46.5)	4.71 (70.2)	4.59 (65.8)
BTU/GSF	142,476	110,634 (-22.3)	116,651 (-18.1)	136,079 (-4.5)	100,310 (-29.6)
BTU/GSF	82,637	57,530 (-30.4)	67,659 (-18.1)	91,174 (10.3)	56,186 (-32.0)
BTU/GSF	59,839	53,103 (-11.3)	48,993 (-18.1)	44,905 (-25.0)	44,144 (-26.2)
KSF	28	28 (0.0)	28 (0.0)	28 (0.0)	28 (0.0)
KSF	187	187 (0.0)	187 (0.0)	187 (0.0)	187 (0.0)
KSF	74	74 (0.0)	74 (0.0)	74 (0.0)	74 (0.0)
KSF	194	194 (0.0)	116 (-40.2)	116 (-40.2)	116 (-40.2)
KSF	3	3 (0.0)	3 (0.0)	3 (0.0)	3 (0.0)
Not Available Separately Included Above					
Other Covered Storage					
Hospital & Medical Administration					
Bachelor Housing					
Community Facilities					
Family Housing					
Operational Buildings					
Utility Buildings					
Other					

- Energy Consumption & PD
- Thermal En Core & PD
- Electrical En Core & PD
- Resident Population & PD
- Non-Resident Population & PD
- Population Served** & PD
- Effective Population*** & PD
- En Consumption/Pop Served & PD
- En Consumption/ER Pop & PD
- Electric En Consumption/Resident Population
- Installed Air Cond Capacity & PD
- Base Energy/Ton of Air Cond & PD
- Real Property Inventory (RPI) & PD
- RPI/Effective Population
- Energy Consumption/GSF & PD
- Thermal En Consumption/GSF & PD
- Electrical En Consumption/GSF & PD
- RPI by Category

**Population Served is the total Resident & Non-Resident Population
 ***ER Pop is Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION JOLIET AAF, IL MACOM DARCOC CLIMATIC REGION 2 HDD 6,180 CDD 993

UNITS/FY	76	77	78	79	80				
MBTU	3,287,708	1,442,993	(-56,11)	827,886	(-74,81)	663,239	(-79,81)	493,142	(-85,0)
MBTU	2,630,167	865,796	(-67,11)	612,636	(-76,71)	504,062	(-80,81)	355,063	(-86,9)
MBTU	657,541	577,197	(-12,21)	215,250	(-67,31)	159,177	(-75,81)	138,079	(-79,0)
PEOPLE	200	207	(3,51)	195	(-2,51)	187	(-6,51)	186	(-7,0)
PEOPLE	1,376	1,021	(-75,81)	461	(-66,51)	342	(-75,11)	338	(-74,0)
PEOPLE	1,373	1,228	(-21,91)	656	(-58,31)	529	(-66,41)	545	(-65,4)
PEOPLE	659	547	(-17,01)	349	(-47,01)	301	(-34,31)	305	(-33,7)
MBTU/CAP	2,090,1	1,175,1	(-43,81)	1,262,0	(-39,61)	1,253,8	(-40,01)	906,5	(-56,9)
MBTU/CAP	4,988,9	2,638,0	(-47,11)	2,372,2	(-52,51)	2,203,5	(-55,81)	1,616,9	(-67,6)
MBTU/CAP	3,287,7	2,788,4	(-15,21)	1,103,8	(-66,41)	851,2	(-74,1)	742,4	(-77,4)
TONS	877	877	(0,1)	877	(0,1)	877	(0,1)	877	(0,1)
MBTU/TON	749,8	658,1	(-22,21)	245,4	(-67,31)	5,118	(0,71)	3,107	(-39,0)
KSF/CAP	7,71	9,23	(19,71)	14,48	(87,71)	129,589	(-80,01)	158,975	(-75,4)
BTU/GSF	646,805	285,798	(-55,81)	163,840	(-74,71)	121,242	(-76,61)	98,488	(-81,01)
BTU/GSF	517,444	171,479	(-66,21)	43,949	(-67,11)	31,101	(-76,01)	24,513	(-55,6)
BTU/GSF	179,361	14,319	(-11,61)	43,949	(-67,11)	31,101	(-76,01)	24,513	(-55,6)
KSF	1,276	1,273	(-3,1)	1,276	(3,1)	1,326	(50,01)	61	(-99,0)
KSF	5	5	(0,0)	5	(0,0)	5	(0,0)	5	(0,0)
KSF	2,665	2,664	(-1,1)	2,281	(-384,1)	391	(-1,814)	859	(-1,814)
KSF	Not Available	Not Available	Not Available	BASE	BASE	BASE	BASE	BASE	BASE
KSF	12	12	(0,0)	12	(0,0)	12	(0,0)	12	(0,0)
KSF	534	519	(-15,1)	519	(-16,1)	530	(1,1)	127	(-76,1)
KSF	17	16	(-6,1)	16	(-7,1)	16	(-7,1)	16	(-7,1)
KSF	183	178	(-5,1)	178	(-5,1)	178	(-5,1)	112	(-38,1)
KSF	142	131	(-9,1)	127	(-14,1)	14	(-11,1)	40	(-72,1)
KSF	237	237	(0,0)	238	(1,1)	238	(1,1)	64	(-72,1)
KSF	Not Available	Not Available	Not Available	BASE	BASE	BASE	BASE	BASE	BASE

1. Energy Consumption @ PD
2. Thermal En Cons @ PD
3. Electrical En Cons @ PD
4. Resident Population @ PD
5. Non-Resident Population @ PD
6. Population Served** @ PD
7. Effective Population*** @ PD
8. En Consumption Pop Served @ PD
9. En Consumption/En Pop @ PD
10. Electric En Cons. (Resident/Non-Resident Population)
11. Headed Air Con 1 Capacity @ PD
12. Elec Energy/Ton of Air Cond @ PD
13. Real Property Inventory (RPI) @ PD
14. RPI/Effective Population
15. Energy Consumption/KSF @ PD
16. Thermal En Consumption/KSF @ PD
17. Electrical En Consumption/KSF @ PD
18. RPI by Category

- Training
- Maintenance @ Production
- Research, Development @ Training
- Storage
- Other Covered Storage
- Hospital @ Medical
- Administration
- Bachelor Housing
- Community Facilities
- Family Housing
- Operational Buildings
- Utility Buildings
- Other

**PD is Percent Deviation from Base Year
 **En Pop is Resident + 1/3 Non-Resident
 ***En Pop is Resident + Non-Resident Population

REMARKS

UNITS/FY	76	76	77	78	78	78
1 Energy Consumption & PD	345,070	315,533 (-8.6)	272,738 (-21.0)	269,393 (-1.2)	208,217 (-24.9)	-39.6
2 Thermal En Con. & PD	245,000	224,029 (-8.6)	188,190 (-23.2)	180,494 (-4.3)	127,135 (-30.1)	-48.1
3 Electrical En Co. & PD	100,070	91,504 (-8.6)	84,548 (-8.6)	88,899 (5.0)	81,282 (-8.6)	-18.8
4 Resident Population & PD	0	0	0	0	0	0
5 Non-Resident P. Juction & PD	1,078	732 (-32.1)	893 (-17.2)	877 (-1.8)	869 (-1.9)	-19.4
6 Population Served** & PD	1,078	732 (-32.1)	893 (-17.2)	877 (-1.8)	869 (-1.9)	-19.4
7 Effective Population*** & PD	359	244 (-32.0)	298 (-17.0)	292 (-1.8)	290 (-1.9)	-19.2
8 En Consumption/Pop Served & PD	320.1	431.1 (34.7)	305.4 (-4.6)	307.2 (-4.0)	239.8 (-23.1)	-23.1
9 En Consumption/Pop & PD	961.2	1,293.2 (34.5)	915.2 (-4.8)	922.6 (-4.0)	718.7 (-23.2)	-23.2
10 Electric En Consumption/Resident Population	850	860 (1.2)	860 (1.2)	860 (1.2)	860 (1.2)	17.8
11 Installed Air Cond Capacity & PD	117.7	106.4 (-9.6)	98.3 (-16.5)	103.4 (-12.2)	81.2 (-21.0)	-31.0
12 Elec Energy/Ton of Air Cond & PD	2,161	2,168 (0.3)	798 (-63.1)	2,202 (1.9)	953 (-55.9)	-55.9
13 Real Property Inventory (RPI) & PD	6.02	8.89 (47.6)	2.68 (-55.5)	7.54 (25.3)	3.29 (-45.4)	-45.4
14 RPI/Effective Population	159.681	145.541 (-8.9)	341.777 (114.0)	122.340 (-23.4)	218.696 (77.7)	77.7
15 Energy Consumption/GSF & PD	113,373	103,334 (-8.9)	235,827 (108.0)	81,968 (-27.7)	133,405 (61.7)	61.7
16 Thermal En Consumption/GSF & PD	46,307	42,207 (-8.9)	105,950 (128.8)	40,372 (-12.8)	85,291 (108.2)	108.2
17 Electrical En Consumption/GSF & PD	67,066	61,127 (-8.8)	130,877 (95.8)	41,596 (-38.5)	48,114 (-13.7)	-13.7
18 RPI by Category						
Training			3			
Maintenance & Production	902	901	368	938	381	
Research, Development & Testing	16	17	8	19	8	
Storage	1,065	1,070	116	976	297	
Other Covered Storage						
Hospital & Medical			201	90	158	
Administration			8	10	8	
Bachelor Housing			57	95	59	
Community Facilities						
Family Housing			13	30	13	
Operational Buildings						
Utility Buildings						
Other			24	33	29	

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS

UNITS/IFY	76	77	78	79
MBTU	1,049,559	1,205,894	1,057,194	1,095,961
MBTU	703,205	844,126	708,320	723,335
MBTU	346,354	361,768	348,874	372,626
PEOPLE	48	12	47	48
PEOPLE	2,692	2,113	2,944	1,984
PEOPLE	2,740	2,125	2,091	2,032
PEOPLE	945	716	728	709
MBTUCAP	383.1	567.5	505.6	539.4
MBTUCAP	1,110.6	1,684.2	1,452.2	1,545.8
MBTUCAP	7,215.7	30,147.3	7,422.9	7,763.0
TONS	1,230	2,010	2,592	2,592
MBTUTON	281.6	180.0	134.6	143.8
KSF	3,154	2,843	3,162	3,123
KSF	3,34	4,05	4,34	4,401
BTUGSF	332,771	424,163	334,343	350,932
BTUGSF	222,957	296,914	224,010	231,615
BTUGSF	109,814	127,249	110,333	119,317
KSF	2,231	1,909	2,229	2,208
KSF	731	67	67	67
KSF	Not Available	BASE	669	669
KSF	50	43	43	43
KSF	14	14	14	14
KSF	41	41	41	41
KSF	87	91	91	80
KSF	Not Available	BASE	15	1

- 1 Energy Consumption & PD
- 2 Thermal En Cond & PD
- 3 Electrical En Cond & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Served** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/Res Pop & PD
- 10 Electric En Consumption/Resident Population
- 11 Installed Air Cond Capacity & PD
- 12 Elec Energy/Ton of Air Cond & PD
- 13 Real Property Inventory (RPI) & PD
- 14 RPI/Effective Population
- 15 Enr 2r Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPI by Category

- Training
- Maintenance & Production
- Research, Development & Testing
- Storage
- Other Covered Storage
- Hospital & Medical
- Administration
- Bachelor Housing
- Community Facilities
- Family Housing
- Operational Buildings
- Utility Buildings
- Other

*PD as Percent Deviation from Base Year **Population Served as the total Resident & Non-Resident Population ***Eff Pop as Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION LETTERKERRY AD, PA MACOM DARCOM CLIMATIC REGION 2 HDD 5,519 CDD 793

UNITS/FY	76	77	78	79
1. Energy Consumption @ PD	996,001	1,031,375	1,042,342	962,837
2. Thermal En Conv @ PD	527,881	528,002	521,171	433,277
3. Electrical En Conv @ PD	468,120	503,373	521,171	529,560
4. Resident Population @ PD	208	192	191	185
5. Non-Resident Population @ PD	5,560	5,427	5,573	5,479
6. Population Served** @ PD	5,768	5,619	5,764	5,664
7. Effective Population*** @ PD	2,061	2,001	2,049	2,011
8. En Consumption/Pop Served @ PD	172.7	183.6	180.8	170.0
9. En Consumption/EN Pop @ PD	483.3	515.4	508.7	478.8
10. Electric En Consumption/Resident Population	2,250.6	2,632.2	2,728.6	2,862.5
11. Installed Air Cond Capacity @ PD	2,205	2,450	2,471	2,471
12. Elec Energy/Ton of Air Cond @ PD	212.3	206.3	210.9	214.3
13. Real Property Inventory (RPI) @ PD	6,856	6,901	6,908	6,894
14. RPI/Effective Population	3.33	3.45	3.37	3.43
15. Energy Consumption/GSF @ PD	145,274	149,453	150,889	139,663
16. Thermal En Consumption/GSF @ PD	76,295	76,221	75,445	62,848
17. Electrical En Consumption/GSF @ PD	68,979	73,232	75,445	76,815
18. RPI by Category				
Training	1	1	1	1
Maintenance & Production	953	1,019	1,020	1,022
Research, Development & Testing				
Storage	4,944	2,104	2,111	2,111
Other Covered Storage				
Hospital & Medical				
Administration				
Bachelor Housing	317	321	321	321
Community Facilities	7	6	6	11
Family Housing	118	122	122	127
Operational Buildings	69	69	69	69
Utility Buildings	400	468	468	435
Other	43	49	49	48
Net Available	43	49	49	48
Net Available	43	49	49	48

*PD is Percent Deviation from Base Year
 **Population Served is the total Resident & Non-Resident Population
 ***EN Pop is Resident + 1/3 Non-Resident

REMARKS FY 77 ECIP - Insulation - \$2,661,496 - Completed (estimated) June 1978

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - LEXINGTON-BLUE GRASS DEPACT, MACOM - DARCOM - CLIMATIC REGION 7 HDD 4,729 CDD 1,107

UNITS/FY	75	76	77	78	79
MBTU	555,214	520,700	515,094	395,061	410,913
MBTU	266,503	249,936	257,547	185,679	209,366
MBTU	288,711	270,764	257,547	209,382	201,547
PEOPLE	85	85	85	85	85
PEOPLE	3,948	3,567	2,780	1,846	1,784
PEOPLE	4,033	3,552	2,865	1,931	1,869
PEOPLE	1,401	1,274	1,012	700	688
MBTUCAP	137.7	142.6	179.8	204.6	219.9
MBTUCAP	396.3	408.7	509.0	564.4	604.3
MBTUCAP	3,396.6	3,185.5	3,190.0	2,463.3	2,368.8
TONS	310.1	1,290	1,290	1,332	1,333
KSF	5,408	5,704	5,737	5,735	5,530
KSF	3.86	4.68	5.67	8.13	8.13
BTUGSF	102,665	91,287	59,785	68,886	74,306
BTUGSF	49,279	43,818	44,809	32,376	37,896
BTUGSF	53,386	47,469	44,809	36,510	36,410
KSF	19	19	19	19	19
KSF	533	540	534	534	460
KSF	4,216	4,225	2,192	2,192	2,192
KSF	Not Available Separately Included Above	BASE	2,060	2,050	2,038
KSF	14	14	14	14	14
KSF	227	227	227	223	223
KSF	88	88	88	88	88
KSF	32	32	32	32	32
KSF	254	254	254	254	254
KSF	23	23	23	23	23
KSF	Not Available	BASE	2	2	2

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Serv** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/En Pop & PD
- 10 Electric En Consumption/Resident Population
- 11 Insulated Air Cond Capacity & PD
- 12 Elec Energy/Ton of Air Cond & PD
- 13 Heat Property Inventory (Rtg) & PD
- 14 RPI/Effective Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPI by Category
- Training
- Maintenance & Production
- Research, Development & Testing
- Storage
- Other Covered Storage
- Hospital & Medical Administration
- Bachelor Housing
- Community Facilities
- Family Housing
- Operational Buildings
- Utility Buildings
- Other

PD is Percent Deviation from Base Year **Population Served is the total Resident & Non Resident Population *En Pop is Resident + 1/2 Non Resident

REMARKS FY 76 ECIP - Insulation - \$979,035 - Completed May 1978

UNITS/FY	76	77	78	79	80
1. Energy Consumption & PD	1,201,335	882,116	(-26.6)	759,429	(-39.3)
2. Thermal En Cons & PD	961,068	696,872	(-27.5)	532,484	(-44.6)
3. Electrical En Cons & PD	240,267	185,244	(-22.9)	196,945	(-18.0)
4. Resident Population & PD	-	-	-	-	-
5. Non-Resident Population & PD	2,494	2,137	(-14.3)	1,849	(-25.9)
6. Population Served** & PD	831	712	(-14.3)	616	(-25.9)
7. Effective Population*** & PD	481.7	412.8	(-14.3)	355.1	(-26.3)
8. En Consumption/Pop Served & PD	1,445.6	1,238.9	(-14.3)	1,065.9	(-26.0)
9. En Consumption/Resident Population	-	-	-	-	-
10. Electric En Consumption/Resident Population	2,768	2,768	(0.0)	2,768	(0.0)
11. Installed Air Cond Capacity & PD	86.8	66.9	(-22.9)	54.6	(-37.1)
12. Elec Energy/Ton of Air Cond & PD	3,178	3,023	(-4.9)	1,941	(-38.9)
13. Heat Property Inventory (HP) & PD	3.82	4.25	(11.0)	3.15	(-17.6)
14. HP/Effective Population	378,016	291,802	(-22.8)	338,285	(-10.5)
15. Energy Consumption/GSF & PD	302,413	230,523	(-23.8)	260,480	(-13.9)
16. Thermal En Consumption/GSF & PD	75,603	61,278	(-18.9)	77,805	(2.9)
17. Electrical En Consumption/GSF & PD	-	-	-	-	-
18. HP by Category	-	-	-	-	-
Training	-	-	-	-	-
Maintenance & Production	1,451	1,437	(-0.9)	369	(-74.5)
Research, Development & Testing	8	8	(0.0)	2	(-75.0)
Storage	1,328	1,324	(-0.3)	722	(-45.7)
Other Covered Storage	-	-	-	-	-
Hospital & Medical	13	13	(0.0)	602	(46.3)
Administration	128	127	(-0.8)	13	(-98.8)
Bachelor Housing	-	-	-	119	(100.0)
Community Facilities	56	56	(0.0)	56	(0.0)
Family Housing	-	-	-	-	-
Operational Buildings	9	17	(88.9)	17	(0.0)
Utility Building	185	41	(-77.8)	41	(0.0)
Other	-	-	-	-	-
Not Available	-	-	-	-	-
BASE	-	-	-	-	-
PD is Percent Deviation from Base Year	-	-	-	-	-
**Population Served is the total Resident & Non-Resident Population	-	-	-	-	-
***Eff Pop is Resident + 1/3 Non-Resident	-	-	-	-	-

REMARKS FY 78 Boiler Plant Alterations - \$843,000 - Completed (estimated) December 1979

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION LONGHORN AAB, TX MACOM_DARCOM CLIMATIC REGION 2 HDD 2,370 CDD 2,459

UNIT/TYPE	76	77	78	79
1. Energy Consumption & PD	650,533	613,165	658,943	695,502
2. Thermal En Cons & PD	502,006	478,289	500,797	521,627
3. Electrical En Cons & PD	158,527	134,876	158,146	173,875
4. Resident Population & PD	1,708	852	986	937
5. Non-Resident Population & PD	1,708	852	986	937
6. Population Served** & PD	667	852	986	937
7. Effective Population*** & PD	569	284	328	312
8. En Consumption/Pop Served & PD	386.7	676.2	74.91	742.3
9. En Consumption/Pop & PD	1,160.2	2,031.8	2,159.0	2,229.2
10. En Cons/Population/Resident Population	2,553	2,733	2,733	2,733
11. Installed Air Cond Capacity & PD	62.1	63.7	64.8	63.6
12. Elec Energy/Ten of Air Cond & PD	1,329	1,315	1,328	1,328
13. Real Property Inventory (RPI) & PD	2,33	5,92	153.61	4.25
14. Ineffective Population	497,015	343,008	482,427	524,511
15. Energy Consumption/GSF & PD	377,732	257,256	376,293	393,384
16. Thermal En Consumption/GSF & PD	119,283	85,752	119,265	131,127
17. Electrical En Consumption/GSF & PD				
18. RPI by Category				
Maintenance & Production	625	611	613	606
Research, Development & Testing	69	69	69	69
Storage	441	441	441	441
Other Covered Storage				
Hospital & Medical				
Administration	7	7	7	7
Scholar Housing	93	93	93	93
Community Facilities				
Family Housing	37	37	37	37
Operational Buildings				
Utility Buildings	10	10	10	10
Other	47	47	47	47

- 1. Energy Consumption & PD
- 2. Thermal En Cons & PD
- 3. Electrical En Cons & PD
- 4. Resident Population & PD
- 5. Non-Resident Population & PD
- 6. Population Served** & PD
- 7. Effective Population*** & PD
- 8. En Consumption/Pop Served & PD
- 9. En Consumption/Pop & PD
- 10. En Cons/Population/Resident Population
- 11. Installed Air Cond Capacity & PD
- 12. Elec Energy/Ten of Air Cond & PD
- 13. Real Property Inventory (RPI) & PD
- 14. Ineffective Population
- 15. Energy Consumption/GSF & PD
- 16. Thermal En Consumption/GSF & PD
- 17. Electrical En Consumption/GSF & PD
- 18. RPI by Category

Training
 Maintenance & Production
 Research, Development & Testing
 Storage
 Other Covered Storage
 Hospital & Medical
 Administration
 Scholar Housing
 Community Facilities
 Family Housing
 Operational Buildings
 Utility Buildings
 Other

**Population Served is the total Resident & Non-Resident Population
 ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS

UNITS/FPY	75	76	77	78	79
MBTU	560,428	577,111	501,425	587,088	108,226
MBTU	308,046	314,414	165,858	352,157	154,613
MBTU	162,582	172,693	165,562	134,931	154,613
PEOPLE	82	52	55	34	31
PEOPLE	1,020	50	70	720	822
PEOPLE	1,102	-37	246	756	853
PEOPLE	422	307	279	276	305
MBTU/CAP	508.7	530.8	404.2	379.7	362.5
MBTU/CAP	1,328.5	1,395.3	1,060.9	1,040.2	1,013.9
MBTU/CAP	1,982.7	2,930.6	3,015.6	3,768.1	4,987.5
TONS	874	904	905	905	905
MBTU/TON	186.0	184.8	149.9	149.1	170.8
KSF	2,920	754	2,778	2,697	2,762
KSF/CAP	6.92	8.98	9.96	9.77	9.06
BTU/GSF	191,996	155,525	108,553	106,447	111,957
BTU/GSF	176,117	164,871	59,704	56,417	55,979
BTU/GSF	55,679	60,654	48,849	50,030	55,978
KSF					
KSF					
KSF	1,312	1,257	1,302	1,239	1,301
KSF	3	3	3	3	3
KSF	1,163	1,153	1,053	1,044	1,053
KSF					
Not Available Separately/Included Above			109	106	106
KSF	11	11	11	10	10
KSF	99	99	99	94	99
KSF					
KSF					
KSF	106	106	99	99	99
KSF	47	47	31	31	20
KSF	49	55	47	47	47
KSF	130	23	24	24	24
Not Available					

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop is Resident + 1/3 Non-Resident

1 Energy Consumption & PD
 2 Thermal En Cons & PD
 3 Electrical En Cons & PD
 4 Resident Population & PD
 5 Non-Resident Population & PD
 6 Population Served** & PD
 7 Effective Population*** & PD
 8 En Consumption/Pop Served & PD
 9 En Consumption/Eff Pop & PD
 10 Electric En Consumption/Resident Population
 11 Installed Air Cond Capacity & PD
 12 Elec Energy/Ton of Air Cond & PD
 13 Real Property Inventory (RPI) & PD
 14 RPI/Effective Population
 15 Energy Consumption/GSF & PD
 16 Thermal En Consumption/GSF & PD
 17 Electrical En Consumption/GSF & PD
 18 RPI by Category

Training
 Maintenance & Production
 Research, Development & Testing
 Storage
 Other Covered Storage
 Hospital & Medical
 Administration
 Bachelor Housing
 Community Facilities
 Family Housing
 Operational Buildings
 Utility Buildings
 Other

REMARKS

UNITS/FY	75	76	77	78	79
MBTU	762,578	584,601	668,692	607,764	772,543
MBTU	381,289	274,763	334,346	322,115	478,977
MBTU	381,289	309,838	334,346	285,649	293,566
PEOPLE	0	0	0	0	0
PEOPLE	2,508	2,308	2,306	2,416	2,487
PEOPLE	2,508	2,308	2,306	2,416	2,487
PEOPLE	836	769	768	805	829
MBTU/CAP	304.1	253.3	290.9	231.6	310.6
MBTU/CAP	912.2	760.2	870.7	755.0	931.9
TONS	1,734	1,839	1,880	1,901	1,901
MBTU/TON	219.9	168.5	177.8	150.3	154.4
KSF	2,165	2,163	2,145	2,161	2,158
KSF/CAP	2.59	2.81	2.79	2.68	2.60
BTU/GSF	352,230	270,273	311,745	281,262	357,990
BTU/GSF	176,115	127,029	155,872	149,058	221,954
BTU/GSF	176,115	143,244	155,872	132,184	136,036
KSF	1,862	1,862	1,679	1,679	1,908
KSF	37	37	37	37	30
KSF	186	186	330	346	186
KSF	21	21	21	21	34
KSF	4	5	1	1	34
KSF	76	73	75	75	75
KSF	BASE	BASE	BASE	BASE	BASE

Population Served is the total Resident & Non-Resident Population *Eff Pop is Resident + 1/3 Non-Resident

REMARKS

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Sav. d** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/Eff Pop & PD
- 10 Electric En Consumption/Resident Population
- 11 Installed Air Cond Capacity & PD
- 12 Elec Energy/Ton of Air Cond & PD
- 13 Real Property Inventory (RPI) & PD
- 14 RPI/Effective Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPI by Category

- Manufacture & Production
- Research, Development & Testing
- Storage
- Other Covered Storage
- Hospital & Medical
- Administration
- Bachelor Housing
- Community Facilities
- Family Housing
- Operational Buildings
- Utility Buildings
- Other

UNITS/Y	76	76	76	77	78	79
MBTU	642,385	554,044	298,208	53,61	504,012	408,935
MBTU	423,975	365,670	161,033	62,01	322,969	382,166
MBTU	218,410	188,374	137,175	37,21	131,043	126,789
PEOPLE	135	111	101	25,21	81	88
PEOPLE	3,281	1,395	1,316	59,91	1,417	1,398
PEOPLE	3,416	1,506	1,417	58,51	1,498	1,486
PEOPLE	1,229	576	540	56,11	553	534
MBTUCAP	188.1	367.9	210.5	11,91	336.5	275.2
MBTUCAP	522.7	961.9	552.2	5,71	911.4	738.1
MBTUCAP	1,617.9	1,697.1	1,338.2	16,11	1,617.8	1,440.6
TONS	-	-	-	-	-	-
MBTU/TON	-	-	-	-	-	-
KSF	3,684	3,668	3,466	5,91	3,663	3,476
KSF	3.00	6.37	6.42	114,11	6.62	6.27
BTU/GSF	174,372	151,048	86,038	50,71	137,595	117,665
BTU/GSF	115,086	99,692	46,461	59,61	101,821	81,175
BTU/GSF	59,286	51,356	39,577	31,91	37,774	36,470
KSF	-	-	-	-	-	-
KSF	870	866	689	-	863	711
KSF	8	8	8	8	8	8
KSF	2,474	2,471	2,338	-	2,361	2,356
KSF	-	-	-	-	-	-
KSF	8	8	8	8	8	8
KSF	111	111	109	111	111	100
KSF	1	-	-	-	-	-
KSF	60	55	54	55	55	44
KSF	85	85	85	85	85	85
KSF	31	36	29	36	37	29
KSF	36	28	18	18	28	19
KSF	Not Available	BASE	11	10	-	10

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Served*** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/ET Pop & PD
- 10 Electric En Consumption/Resident Population
- 11 Installed Air Cond Capacity & PD
- 12 Elec Energy/Ton of Air Cond & PD
- 13 Real Property Inventory RPH & PD
- 14 RPH/Effective Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPH by Category

- Training
- Maintenance & Production
- Research, Development & Testing
- Storage
- Other Covered Storage
- Hospital & Medical Administration
- Bachelor Housing
- Community Housing
- Family Housing
- Operational Buildings
- Utility Buildings
- Other

**Population Served is the total Resident & Non-Resident Population
 ***ET Pop is Resident + 1/2 Non-Resident

REMARKS

UNITS/FY	75	76	77	78	78
MBTU	1,836,020	1,654,654	1,552,679	1,487,631	1,474,460
Thermal En Cons & PD	1,046,532	926,607	916,081	847,950	869,932
MBTU	789,488	728,047	639,598	639,681	604,528
PEOPLE	6,436	3,829	5,982	6,270	5,587
Non-Resident Population & PD	9,587	10,266	7,111	7,176	7,794
PEOPLE	16,023	14,095	14,136	13,396	13,385
PEOPLE	9,632	7,251	8,700	8,665	8,186
MBTUCAP	114.6	117.4	109.8	111.1	110.2
MBTUCAP	190.6	228.2	178.5	172.1	180.1
MBTUCAP	122.7	190.1	106.4	102.0	108.2
TONS	5,505	5,870	5,940	4,526	5,894
MBTUTION	163.4	124.0	107.2	161.3	102.6
KSF	7,431	7,274	6,226	6,206	6,205
KSF	77	1,00	72	72	76
KSF	247,075	227,475	249,386	239,708	237,624
BTUGSF	140,833	127,386	147,138	136,633	140,198
BTUGSF	106,242	100,088	102,268	103,074	97,425
KSF	750	600	121	134	119
KSF	374	353	354	354	358
KSF	814	811	795	802	802
KSF	562	627	2	2	2
Other Covered Storage	Not Available	Not Available	BASE	BASE	BASE
Hospital & Medical	158	154	145	145	145
Administration	1,558	1,414	1,405	1,339	1,350
Bachelor Housing	1,043	977	537	561	561
Community Facilities	566	545	561	552	559
Family Housing	1,546	1,685	1,684	1,687	1,688
Operational Buildings	57	57	54	54	54
Utility Buildings	43	44	43	70	70
Other	Not Available	Not Available	Not Available	Not Available	Not Available

1. Energy Consumption & PD
 2. Thermal En Cons & PD
 3. Electrical En Cons & PD
 4. Resident Population & PD
 5. Non-Resident Population & PD
 6. Population Survey** & PD
 7. Effective Population*** & PD
 8. En Consumption/Pop Served & PD
 9. En Consumption/En Pop & PD
 10. Electric En Consumption/Resident Population
 11. Installed Air Cond Capacity & PD
 12. Elec Energy/Ft of Air Cond & PD
 13. Real Property Inventory (RPI) & PD
 14. RPI/Effective Population
 15. Energy Consumption/GSF & PD
 16. Thermal En Consumption/GSF & PD
 17. Electrical En Consumption/GSF & PD
 18. RPI by Category
- *PD is Percent Deviation from Base Year
 **Population Served is the total Resident & Non-Resident Population
 ***En Pop is Resident + 1/3 Non-Resident

REMARKS: FT 77 Family Housing ECIP Improvements - \$199,112 - Completed (estimated) October 1978

UNITS/FY	75	76	77	78	79
1. Energy Consumption & PD	308,773	306,588	304,502	299,782	296,782
2. Thermal En Cons & PD	163,650	156,360	155,297	146,894	142,624
3. Electrical En Cons & PD	145,123	150,228	149,205	152,888	154,158
4. Resident Population & PD	334	334	329	330	344
5. Non-Resident Population & PD	1,377	1,335	1,285	1,252	1,215
6. Population Served** & PD	1,712	1,669	1,614	1,582	1,560
7. Effective Population*** & PD	814	779	757	747	791
8. En Consumption/Pop Served & PD	378.3	183.7	188.7	189.5	185.5
9. En Consumption/Resident Pop & PD	379.3	393.6	402.2	401.3	375.6
10. Electric En Consumption/Resident Population	408.8	449.8	453.5	463.3	450.3
11. Installed Air Cond Capacity & PD	894	956	956	983	1,037
12. Elec Energy/Ton of Air Cond & PD	162.3	157.1	156.1	155.5	149.0
13. Real Property Inventory (RPI) & PD	1,036	1,037	1,037	1,036	1,030
14. RPI/Effective Population	1.27	1.33	1.37	1.39	1.30
15. Energy Consumption/GSF & PD	298,043	295,649	293,637	289,365	288,479
16. Thermal En Consumption/GSF & PD	157,963	150,781	149,756	141,790	138,470
17. Electrical En Consumption/GSF & PD	140,080	144,868	143,881	147,575	150,009
18. RPI by Category					
Training					
Maintenance & Production					
Research, Development & Testing					
Storage					
Other Covered Storage					
Hospital & Medical					
Administration					
Bachelor Housing					
Community Facilities					
Family Housing					
Operational Buildings					
Utility Buildings					
Other					
BASE	70	70	70	70	70
Research, Development & Testing	550	550	550	552	552
Storage	177	177	107	107	106
Other Covered Storage			BASE	70	60
Hospital & Medical					
Administration	66	66	66	66	66
Bachelor Housing	21	21	21	31	31
Community Facilities	18	18	18	18	17
Family Housing	118	118	118	118	112
Operational Buildings	1	1	1	1	1
Utility Buildings	15	16	16	16	16
Other					

- 1. Energy Consumption & PD
- 2. Thermal En Cons & PD
- 3. Electrical En Cons & PD
- 4. Resident Population & PD
- 5. Non-Resident Population & PD
- 6. Population Served** & PD
- 7. Effective Population*** & PD
- 8. En Consumption/Pop Served & PD
- 9. En Consumption/Resident Pop & PD
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity & PD
- 12. Elec Energy/Ton of Air Cond & PD
- 13. Real Property Inventory (RPI) & PD
- 14. RPI/Effective Population
- 15. Energy Consumption/GSF & PD
- 16. Thermal En Consumption/GSF & PD
- 17. Electrical En Consumption/GSF & PD
- 18. RPI by Category

REMARKS

▽ PD is Percent Deviation from Base Year

▽ **Population Served is the total Resident & Non-Resident Population

***Eff Pop is Resident + 1/3 Non-Resident

FY 76 ECIP - Insulate R & D Buildings - \$397,753 - Completed November 1977

FY 77 ECIP - Insulation & Replace Windows - \$140,813 - Completed (estimated) June 1978

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION_NEL_CUMBERLAND_AD_PA MACOM_DARGOM CLIMATIC REGION_3 HDD_5,224 CDD_1,025

UNITS/FY	76	77	78	79
MBTU	865,155	958,504	889,230	870,334
MBTU	562,351	546,348	462,405	435,167
MBTU	302,804	412,156	426,834	435,167
PEOPLE	403	391	529	387
PEOPLE	4,545	5,041	6,398	6,510
PEOPLE	4,946	5,432	6,927	6,917
PEOPLE	1,916	2,071	2,662	2,564
MBTU/CAP	174.9	176.5	128.4	125.8
MBTU/CAP	451.5	462.8	334.0	339.4
MBTU/CAP	753.7	1,034.1	806.9	1,124.5
TONS	789	1,343.3	1,388	1,498
MBTU/TON	383.8	306.9	307.5	290.5
KSF	5,319	5,515	5,513	5,512
KSF/CAP	2.78	2.66	2.07	2.15
BTU/GSF	162,654	173,799	161,299	157,898
BTU/GSF	105,725	99,066	83,875	78,949
BTU/GSF	36,928	74,733	77,423	78,879
KSF	67,061	31,131	36,000	38,721
KSF	3	3	3	3
KSF	602	600	601	572
KSF	12	12	12	12
KSF	3,880	3,861	3,982	4,009
KSF	7	7	7	7
KSF	355	353	353	353
KSF	83	83	83	83
KSF	158	159	158	159
KSF	204	204	204	204
KSF	7	101	101	101
KSF	8	8	8	8
KSF	Not Available	BASE	BASE	BASE

- Energy Consumption & PD
- Thermal En Cons & PD
- Electrical En Cons & PD
- Resident Population & PD
- Non-Resident Population & PD
- Population Served** & PD
- Effective Population*** & PD
- En Consumption/Pop Served & PD
- En Consumption/ER Pop & PD
- Electric En Consumption/Resident Population
- Included Air Cond Capacity & PD
- Electric Energy/Ton of Air Cond & PD
- Real Property Inventory (RPI) & PD
- RPI/Effective Population
- Energy Consumption/GSF & PD
- Thermal En Consumption/GSF & PD
- Electrical En Consumption/GSF & PD
- RPI by Category

- Training
- Maintenance & Production
- Research, Development & Testing
- Storage
- Other Covered Storage
- Hospital & Medical Administration
- Bachelor Housing
- Community Facilities
- Family Housing
- Operational Buildings
- Utility Buildings
- Other

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***ER Pop is Resident + IG Non-Resident

REMARKS: FY 77 Family Housing ECIP Improvements - \$20,867 - Completed (estimated) October 1978

UNITS/FY	75	76	77	78	79
1. Energy Consumption & PD	1,759,556	1,667,292	1,729,057	1,971,261	1,771,624
2. Thermal En Cons & PD	1,585,800	1,482,400	1,534,850	1,746,975	1,683,550
3. Electrical En Cons & PD	173,756	184,892	194,207	224,286	288,074
4. Resident Population & PD	163	415	374	408	576
5. Non-Resident Population & PD	5,438	5,450	5,555	5,909	5,404
6. Population Served** & PD	5,001	5,865	5,922	6,317	5,980
7. Effici. vs Population*** & PD	2,242	2,232	2,226	2,378	2,377
8. En Consumption/Pop Served & PD	293.2	284.3	291.6	312.1	296.2
9. En Consumption/Resident Pop & PD	784.8	747.0	776.8	828.9	745.3
10. Electric En Consumption/Resident Population	478.7	445.5	519.3	549.7	500.1
11. Installed Air Cond Capacity & PD	795	1,250	1,650	1,650	1,630
12. Elec Energy/Ton of Air Cond & PD	3,785	3,822	3,825	3,811	3,848
13. Real Property Inventory (RPI) & PD	1,69	1,71	1,72	1,60	1,62
14. RPI/Effective Population	464,876	436,235	452,041	517,256	460,401
15. Energy Consumption/GSF & PD	418,970	387,860	401,268	458,403	385,538
16. Thermal En Consumption/GSF & PD	45,906	48,375	50,773	58,953	74,863
17. Electrical En Consumption/GSF & PD	70	70	67	54	54
18. RPI by Category					
Training					
Maintenance & Production					
Research, Development & Testing					
Storage					
Other Covered Storage					
Hospital & Medical					
Administration					
Bachelor Housing					
Community Facilities					
Family Housing					
Operational Buildings					
Utility Buildings					
Other					

- 1. Energy Consumption & PD
- 2. Thermal En Cons & PD
- 3. Electrical En Cons & PD
- 4. Resident Population & PD
- 5. Non-Resident Population & PD
- 6. Population Served** & PD
- 7. Effici. vs Population*** & PD
- 8. En Consumption/Pop Served & PD
- 9. En Consumption/Resident Pop & PD
- 10. Electric En Consumption/Resident Population
- 11. Installed Air Cond Capacity & PD
- 12. Elec Energy/Ton of Air Cond & PD
- 13. Real Property Inventory (RPI) & PD
- 14. RPI/Effective Population
- 15. Energy Consumption/GSF & PD
- 16. Thermal En Consumption/GSF & PD
- 17. Electrical En Consumption/GSF & PD
- 18. RPI by Category

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS: FY 76 ECIP - Condensate Recovery - \$2,537,036 - Completed September 1979

U.S. Aim - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - PINE BLUFF ARSENAL, AR - MACOM - DARCOM - CLIMATIC REGION 7 - HDD 2,588 CDD 2,314

UNITS/FY	75	76	77	78	79
1 Energy Consumption & PD	524,328	483,287	455,569	442,761	444,082
2 Thermal En Cons & PD	419,463	381,797	355,344	332,071	328,621
3 Electrical En Cons & PD	104,865	101,490	100,223	110,690	115,461
4 Resident Population & PD	190	183	63	63	190
5 Non-Resident Population & PD	1,040	931	548	552	1,592
6 Population Served** & PD	1,230	1,114	611	615	1,782
7 Effective Population*** & PD	537	493	246	247	721
8 En Consumption/Pop Served & PD	426.3	433.8	745.6	719.9	248.2
9 En Consumption/Eff Pop & PD	976.4	980.3	1,851.9	1,792.6	615.9
10 Electric En Consumption/Resident Population	551.9	554.6	1,590.9	1,756.9	607.7
11 Installed Air Cond Capacity & PD	551	556	589	1,383	1,433
12 Elec Energy/Ton of Air Cond & PD	180.3	182.5	170.2	80.0	80.6
13 Real Property Inventory (RPI) & PD	3,194	2,253	3,162	3,153	3,266
14 RPI/Effective Population	5.95	4.57	12.85	12.77	4.53
15 Energy Consumption/GSF & PD	164,160	214,508	144,076	140,425	135,971
16 Thermal En Consumption/GSF & PD	131,328	169,462	112,380	105,319	100,619
17 Electrical En Consumption/GSF & PD	32,832	45,046	31,696	35,106	35,352
18 RPI by Category					
Training					
Maintenance & Production					
Research, Development & Testing					
Storage					
Other Covered Storage					
Hospital & Medical					
Administration					
Bachelor Housing					
Community Facilities					
Family Housing					
Operational Buildings					
Utility Buildings					
Other					
Net Available	BASE	BASE	BASE	BASE	BASE
	786	748	795	795	875
	2,056	1,173	993	993	1,016
Net Available Separately Included Above					
	30	30	19	19	19
	100	96	104	104	104
	41	36	40	40	40
	73	71	67	67	72
	62	62	62	62	62
	4	8	7	7	4
	62	29	29	26	29
Net Available	BASE	BASE	BASE	BASE	BASE
	786	748	795	795	875

**Population Served is the total Resident & Non-Resident Population
 ***Eff Pop is Resident + 1/3 Non-Resident

FY 76 ECIP - Condensate Return System - \$394,200 - Completed September 1977
 FY 77 ECIP - Insulation and Attic Fans - \$139,000 - Completed (estimated) June 1978
 FY 77 Family Housing ECIP Improvements - \$43,400 - Completed (estimated) October 1978

REMARKS
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U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - RADFORD AAF, VA - MACOM - DARCON - CLIMATIC REGION - 3 - HDD - 4,680 - CDD - 275

UNITS/FY	75	76	77	78	79
1. Energy Consumption & PD	5,206,719	3,594,565	3,329,362	4,021,751	3,882,764
2. Thermal En Cons & PD	4,908,100	3,318,450	3,074,800	3,775,725	3,627,900
3. Electrical En Cons & PD	298,619	276,115	254,562	246,026	254,864
4. Resident Population & PD	71	69	72	38	59
5. Non-Resident Population & PD	4,094	2,443	2,791	2,828	2,673
6. Population**** & PD	4,167	2,512	2,863	2,866	2,732
7. Effective Population*** & PD	1,438	883	1,002	1,001	950
8. En Consumption/Pop Served & PD	1,249.5	1,431.0	1,162.9	1,393.5	1,421.2
9. En Consumption/En Pop & PD	3,620.8	4,070.9	3,322.7	4,017.7	4,087.1
10. Electrical En Consumption/Resident Population	4,090.7	4,000.7	3,535.6	4,242.0	4,319.7
11. Installed Air Cond Capacity & PD	1,260	1,501	1,501	1,501	1,501
12. Elec Energy/Ton of Air Cond & PD	237.0	183.9	169.6	163.9	169.8
13. Real Property Inventory (RPI) & PD	3,453	3,440	2,716	2,765	3,741
14. RPI/Effective Population	2,40	3,90	2,71	2,76	3,94
15. Energy Consumption/GSF & PD	1,507,883	1,044,932	1,225,833	1,554,525	1,037,894
16. Thermal En Consumption/GSF & PD	1,471,402	964,666	1,132,106	1,365,543	969,757
17. Electrical En Consumption/GSF & PD	86,481	80,266	93,727	88,982	68,137
18. RPI by Category					
Training					
Maintenance & Production					
Research, Development & Testing					
Storage					
Other Covered Storage					
Hospital & Medical					
Administration					
Bachelor Housing					
Community Facilities					
Family Housing					
Operational Buildings					
Utility Buildings					
Other					

PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population *En Pop is Resident + 1/3 Non-Resident

REMARKS

UNITS/SPY	76	77	78	79	80
1. Energy Consumption \$ PD	1,102,839	884,130	1,003,789	1,003,789	995,232
2. Thermal En Cons \$ PD	430,108	469,059	469,059	469,059	469,059
3. Electrical En Cons \$ PD	672,731	415	534,730	534,730	526,173
4. Resident Population \$ PD	292	415	415	415	415
5. Non-Resident Population \$ PD	5,316	5,728	5,864	5,864	5,550
6. Population Served** \$ PD	5,808	6,143	6,273	6,273	5,841
7. Effective Population*** \$ PD	2,131	2,324	2,364	2,364	2,141
8. En Consumption/Pop Served \$ PD	189.9	177.6	156.9	172.1	170.4
9. En Consumption/Pop \$ PD	517.5	469.4	416.3	476.9	464.8
10. Electric En Consumption/Resident Population	2,303.9	1,498.3	1,106.8	1,949.5	1,641.6
11. Installed Air Cond Capacity \$ PD	2,246	2,288	2,417	2,389	2,837
12. Base Energy/Ton of Air Cond \$ PD	299.5	271.8	187.3	397.5	168.4
13. Heat Property Inventory (HP) \$ PD	6,436	6,497	7,125	7,126	7,206
14. HP/Effective Population	3.02	2.80	3.01	3.39	3.37
15. Energy Consumption/GSF \$ PD	171,355	167,898	138,124	140,863	138,112
16. Thermal En Consumption/GSF \$ PD	66,829	72,196	74,387	74,657	71,818
17. Electrical En Consumption/GSF \$ PD	104,526	95,702	63,737	66,206	66,294
18. HP/By Category	40	40	39	38	43
Training	1,149	1,160	1,173	1,181	1,196
Maintenance & Production	-	-	-	-	-
Research, Development & Testing	-	-	-	-	-
Storage	4,103	4,111	4,111	4,111	4,111
Other Covered Storage	6	6	6	6	6
Hospital & Medical	218	245	245	245	250
Administration	12	12	12	12	12
Bachelor Housing	93	93	96	97	105
Community Facilities	78	78	117	117	110
Family Housing	685	685	693	692	708
Operational Buildings	12	60	55	72	70
Utility Buildings	7	7	22	8	8
Other	-	-	-	-	-
Not Available	-	-	-	-	-
BASE	4,111	4,111	4,111	4,111	4,111
Net Available Separately Included Above	-	-	-	-	-
BASE	4,111	4,111	4,111	4,111	4,111
Storage	6	6	6	6	6
Other Covered Storage	6	6	6	6	6
Hospital & Medical	218	245	245	245	250
Administration	12	12	12	12	12
Bachelor Housing	93	93	96	97	105
Community Facilities	78	78	117	117	110
Family Housing	685	685	693	692	708
Operational Buildings	12	60	55	72	70
Utility Buildings	7	7	22	8	8
Other	-	-	-	-	-

1. Energy Consumption \$ PD
 2. Thermal En Cons \$ PD
 3. Electrical En Cons \$ PD
 4. Resident Population \$ PD
 5. Non-Resident Population \$ PD
 6. Population Served** \$ PD
 7. Effective Population*** \$ PD
 8. En Consumption/Pop Served \$ PD
 9. En Consumption/Pop \$ PD
 10. Electric En Consumption/Resident Population
 11. Installed Air Cond Capacity \$ PD
 12. Base Energy/Ton of Air Cond \$ PD
 13. Heat Property Inventory (HP) \$ PD
 14. HP/Effective Population
 15. Energy Consumption/GSF \$ PD
 16. Thermal En Consumption/GSF \$ PD
 17. Electrical En Consumption/GSF \$ PD
 18. HP/By Category

Training
 Maintenance & Production
 Research, Development & Testing
 Storage
 Other Covered Storage
 Hospital & Medical
 Administration
 Bachelor Housing
 Community Facilities
 Family Housing
 Operational Buildings
 Utility Buildings
 Other

PD is Percent Deviation from Base Year
 **Population Served is the total Resident & Non-Resident Population
 ***Eff Pop is Resident + 1/3 Non-Resident

FY 76 ECIP - Lighting Improvements - \$341,359 - Completed February 1977

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - REDSTONE ARSENAL, ALA. - MACOM - DAPCOM - CLIMATIC REGION 4 - HDD 3,302 CDD 1,511

UNITS/FY	75	76	77	78	79
1 Energy Consumption & PD	5,478,603	5,178,920 (-5.3)	5,498,689 (0.4)	5,106,128 (-6.8)	4,884,814 (-4.4)
2 Thermal En Cons & PD	2,410,586	2,175,147 (-9.8)	2,366,437 (-1.9)	2,184,574 (-7.1)	2,092,774 (-4.0)
3 Electrical En Cons & PD	3,068,017	3,003,773 (-2.1)	3,132,252 (4.3)	2,921,556 (-6.7)	2,792,040 (-4.4)
4 Resident Population & PD	6,157	5,862 (-4.8)	6,379 (4.6)	6,355 (-0.4)	6,085 (-4.3)
5 Non-Resident Population & PD	17,718	18,651 (5.3)	18,837 (1.0)	18,835 (-0.1)	17,973 (-4.5)
6 Population Served** & PD	23,875	24,513 (2.7)	25,216 (2.9)	25,190 (-0.1)	24,058 (-4.4)
7 Effective Population*** & PD	12,063	12,079 (0.1)	12,658 (4.9)	12,633 (-0.2)	12,076 (-4.8)
8 En Consumption/Pop Served & PD	229.5	211.3 (-7.9)	218.1 (-3.2)	202.7 (-11.7)	203.0 (-0.1)
9 En Consumption/Resident Pop & PD	498.3	428.8 (-15.6)	434.4 (-1.4)	404.2 (-11.0)	404.5 (-10.9)
10 Electric En Consumption/Resident Pop	19,183	19,133 (-0.3)	21,026 (9.6)	21,526 (2.4)	24,130 (12.1)
11 Installed Air Cond Capacity & PD	159.9	157.0 (-1.8)	149.1 (-6.7)	137.6 (-13.9)	119.4 (-25.7)
12 Elec Energy/Ton of Air Cond & PD	9,090	9,165 (0.8)	9,284 (1.3)	9,456 (1.9)	9,538 (0.9)
13 Real Property Inventory (RPI) & PD	75	76.1 (1.3)	73.1 (-2.7)	75.0 (2.6)	79.1 (5.4)
14 RPI/Effective Population	602,707	565,076 (-6.2)	592,276 (-1.7)	539,988 (-9.1)	512,142 (-15.0)
15 Energy Consumption/GSF & PD	265,191	237,332 (-10.5)	254,679 (6.5)	226,795 (-14.5)	209,978 (-8.3)
16 Thermal En Consumption/GSF & PD	337,516	327,744 (-2.9)	337,597 (0.0)	313,193 (-7.2)	302,164 (-3.2)
17 Electrical En Consumption/GSF & PD	599	588 (-1.8)	675 (14.6)	675 (0.0)	675 (0.0)
18 RPI by Category					
Training	599	588	675	675	675
Maintenance & Production	532	568	571	563	567
Research, Development & Testing	1,232	1,227	1,217	1,237	1,255
Storage	2,653	2,674	813	813	816
Other Covered Storage	Not Available	Not Available	Not Available	Not Available	Not Available
Hospital & Medical	78	90	108	1,807	1,857
Administration	1,312	1,319	1,342	1,353	1,358
Bachelor Housing	586	586	586	586	579
Community Facilities	389	355	402	456	459
Family Housing	1,496	1,520	1,520	1,520	1,520
Operational Buildings	120	120	126	126	126
Utility Buildings	93	106	105	92	92
Other	Not Available	12	12	11	11

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS FY 77 Family Housing ECIP Improvements - \$31,096 - Completed (estimated) October 1978

UNITS/TYPE	76	76	77	78	79
1 Energy Consumption & PD	334,314	92,669 (-72.3)	25,596 (-92.3)	58,570 (-82.5)	127,221 (-62.1)
2 Thermal En Cons & PD	96,952	10,194 (-89.5)	256 (-99.7)	13,472 (-86.1)	38,167 (-61.1)
3 Electrical En Cons & PD	237,362	82,475 (-65.3)	25,340 (-89.3)	45,098 (-81.0)	89,054 (-63.1)
4 Resident Population & PD	0	0	0	0	0
5 Non-Resident Population & PD	550	373 (-32.2)	128 (-76.7)	163 (-70.4)	294 (-46.9)
6 Population Served** & PD	550	373 (-32.2)	128 (-76.7)	163 (-70.4)	294 (-46.9)
7 Effective Population*** & PD	183	124 (-32.2)	43 (-76.7)	54 (-70.4)	98 (-46.9)
8 En Consumption/Pop Served & PD	607.8	248.4 (-59.1)	199.9 (-67.1)	359.3 (-40.9)	432.7 (-28.8)
9 En Consumption/Eff Pop & PD	1,826.9	747.3 (-59.1)	595.3 (-67.4)	2,084.6 (-40.6)	2,298.2 (-28.9)
10 Electric En Consumption/Resident Population	-	-	-	-	-
11 Installed Air Cond Capacity & PD	29	-	58 (100.0)	56 (93.1)	82 (182.8)
12 Elec Energy/Ton of Air Cond & PD	8,184.9	-	436.9 (-94.7)	805.3 (-90.2)	1,086 (-86.7)
13 Real Property Inventory (RPI) & PD	793	793 (0.0)	247 (-68.9)	797 (0.5)	688 (-13.2)
14 RPI/Effective Population	4.33	6.40 (47.6)	5.74 (32.6)	16.76 (2.4)	7.02 (62.0)
15 Energy Consumption/GSF & PD	421,581	116,859 (-72.2)	103,627 (-75.4)	73,448 (-82.6)	184,914 (-56.1)
16 Thermal En Consumption/GSF & PD	122,260	12,855 (-89.5)	1,036 (-99.1)	16,903 (-86.2)	55,475 (-54.6)
17 Electrical En Consumption/GSF & PD	299,321	104,004 (-65.3)	102,591 (-65.7)	56,545 (-81.1)	129,439 (-56.7)
18 RPI by Category					
Training					
Maintenance & Production	599	599	53	603	505
Research, Development & Testing					
Storage	54	54			
Other Covered Storage					
Hospital & Medical	11	11	55	55	55
Administration	12	12	12	12	13
Bachelor Housing					
Community Facilities					
Family Housing					
Operational Buildings	2	2			
Utility Buildings	102	102	102	102	14
Other					90

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Served** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/Eff Pop & PD
- 10 Electric En Consumption/Resident Population
- 11 Installed Air Cond Capacity & PD
- 12 Elec Energy/Ton of Air Cond & PD
- 13 Real Property Inventory (RPI) & PD
- 14 RPI/Effective Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPI by Category

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION ROCK ISLAND ARSENAL, ILL. MACOM DARGON CLIMATIC REGION 2 HDD 5,461 CDD 1,000

UNITS/FY	76	79	77	78	79
MRTU	1,363.69	1,340.250	1,320.307	1,368.989	1,419.473
MRTU	971.300	936.895	972.725	967.525	996.525
MRTU	392.333	403.423	347.582	401.464	422.948
PEOPLE	7,276	233	235	240	240
PEOPLE	8,015	8,155	6,974	7,107	8,308
PEOPLE	2,831	2,951	2,560	2,598	3,009
MRTUCAP	170.1	159.8	183.1	166.6	166.1
MRTUCAP	481.7	434.2	513.7	526.9	571.7
MRTUCAP	1,641.8	1,731.2	1,479.1	1,753.1	1,762.3
TOWNS	2,159	1,940	3,228	3,258	3,273
MRTUTON	181.7	207.9	107.7	123.2	129.2
KSF	6,174	6,272	6,246	6,222	5,949
KSF	2,218	2,313	2,441	2,339	1,981
BTUGSF	220.877	213.688	211.384	220.024	238.607
BTUGSF	157.321	149.366	155.736	155.501	167.511
BTUGSF	63.556	64.322	55.648	64.523	71.096
KSF	68	127	145	133	128
KSF	2,184	2,162	2,126	2,183	2,177
KSF	2,023	2,64	2,67	2,47	13
KSF	9	9	7	7	8
KSF	1,111	1,177	1,957	1,912	1,710
KSF	1	1	9	9	10
KSF	235	218	1,203	1,212	1,148
KSF	178	178	6	6	6
KSF	22	25	219	204	234
KSF	77	94	178	178	178
KSF	BASE	BASE	31	31	215
KSF	BASE	BASE	94	100	100
KSF	BASE	BASE	24	24	22

1. Energy Consumption @ PD
2. Thermal En Cons @ PD
3. Electrical En Cons @ PD
4. Resident Population @ PD
5. Non-Resident Population @ PD
6. Population Served** @ PD
7. Effective Population*** @ PD
8. En Consumption/Pop Served @ PD
9. En Consumption/Res Pop @ PD
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity @ PD
12. Elec Energy/Ton of Air Cond @ PD
13. Real Property Inventory (RPI) @ PD
14. RPI/Effective Population
15. Energy Consumption/GSF @ PD
16. Thermal En Consumption/GSF @ PD
17. Electrical En Consumption/GSF @ PD
18. RPI by Category

Population Served is the total Resident & Non-Resident Population *EFF Pop @ Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - ROCKY MOUNTAIN ARSENAL, COMACOM DABCOM CLIMATIC REGION 2 HDD 6,016 CDD 625

UNITS/TYPE	76	77	78	79	80
MRTU	480.028	415,296	415,296	415,296	415,296
MRTU	254,615	220,107	220,107	220,107	220,107
MRTU	225,613	195,189	195,189	195,189	195,189
PEOPLE	110	79	79	79	79
PEOPLE	758	738	738	738	738
PEOPLE	868	817	817	817	817
MRTUCAP	551.0	508.3	508.3	508.3	508.3
MRTUCAP	1,322.4	1,277.8	1,277.8	1,277.8	1,277.8
MRTUCAP	2,051.0	2,470.7	2,470.7	2,470.7	2,470.7
TONS	89	89	89	89	89
MRTUTION	2,535.0	2,193.1	2,193.1	2,193.1	2,193.1
KSF	1,865	1,877	1,877	1,877	1,877
KSFICAP	5.14	5.78	5.78	5.78	5.78
BTUGSF	257,388	221,255	221,255	221,255	221,255
BTUGSF	136,416	117,265	117,265	117,265	117,265
BTUGSF	120,972	103,990	103,990	103,990	103,990
KSF	80	80	80	80	80
KSF	685	685	685	685	685
KSF	773	16	16	16	16
KSF	1.8	BASE	BASE	BASE	BASE
KSF	84	99	99	99	99
KSF	49	49	49	49	49
KSF	59	60	60	60	60
KSF	36	35	35	35	35
KSF	3	4	4	4	4
KSF	78	86	86	86	86
KSF	Not Available	BASE	BASE	BASE	BASE

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Served** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/Pop*** & PD
- 10 Electric En Consumption/Resident Population
- 11 Installed Air Cond Capacity & PD
- 12 Elec Energy/Ton of Air Cond & PD
- 13 Real Property Inventory (RPI) & PD
- 14 RPI/Effective Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPI by Category

- Training
- Measurement & Production
- Research, Development & Testing
- Storage
- Other Covered Storage
- Hospital & Medical
- Administration
- Bachelor Housing
- Community Facilities
- Family Housing
- Operational Buildings
- Utility Buildings
- Other

PD is Percent Deviation from Base Year **Population Served is the total Resident & Non Resident Population *Eff Pop is Resident + 1/3 Non-Resident

REMARKS

5. Army ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION_SENECA_ARMY_DEPT_NY MACOM_DARCOM CLIMATIC REGION_2_HDD_2359_CDD_655

UNITS/FY	76	77	78	79
1 Enrg Consumption & PD	305,777	279,435 (-8.4)	358,700 (17.3)	399,859 (11.5)
2 Thermal En Cons & PD	180,409	153,690 (-14.8)	218,862 (21.3)	178,955 (-17.8)
3 Electrical En Cons & PD	125,368	125,745 (0.3)	139,838 (11.1)	145,855 (4.3)
4 Non-Resident Population & PD	317	699 (-1.8)	801 (12.5)	923 (15.1)
5 Non-Resident Population & PD	897	1,000 (11.3)	840 (-6.4)	835 (-0.6)
6 Population Serv** & PD	1,609	1,699 (5.6)	1,641 (-3.4)	1,737 (5.4)
7 Active Population*** & PD	1,011	1,032 (2.1)	1,081 (4.7)	1,119 (3.5)
8 En Consumption/Pop Serv** & PD	190.0	164.5 (-13.5)	218.6 (15.0)	186.4 (-11.9)
9 En Consumption/Pop Serv** & PD	102.4	270.8 (165.4)	331.9 (9.7)	278.3 (-16.3)
10 Electrical En Consumption/Resident Population	176.1	179.9 (2.2)	174.7 (-0.8)	166.1 (-4.5)
11 Installed Air Cond Capacity & PD	456	470 (3.1)	470 (0.0)	456 (-3.2)
12 Elec Energy/Ton of Air Cond & PD	274.9	267.5 (-2.7)	297.7 (8.3)	310.3 (4.2)
13 Fuel Property Inventory (RPH) & PD	4,970	4,439 (-10.7)	4,472 (-0.7)	4,458 (-0.3)
14 RPH/Incrs Population	4.92	4.30 (-12.5)	4.14 (-3.7)	3.95 (-4.3)
15 Energy Consumption/GSF & PD	61,525	62,950 (2.3)	80,230 (28.1)	70,539 (-11.9)
16 Thermal En Consumption/GSF & PD	36,200	34,623 (-4.4)	48,941 (34.8)	38,797 (-6.9)
17 Electrical En Consumption/GSF & PD	25,325	28,327 (12.3)	31,289 (10.4)	31,742 (1.4)
18 RPH by Category				
Training	8	16	16	16
Maintenance & Production	208	208	208	208
Research, Development & Testing				
Storage	3,637	3,637	3,637	3,637
Other Covered Storage				
Hospital & Medical				
Administration	75	78	78	78
Bachelor Housing	94	94	94	94
Community Facilities	120	131	133	134
Family Housing	221	221	221	221
Operational Buildings	42	41	41	40
Utility Buildings	557	26	26	26
Other	Not Available	BASE	BASE	BASE
	8	8	8	8
	208	208	208	208
	3,637	3,637	3,637	3,637
	75	78	78	78
	94	94	94	94
	120	131	133	134
	221	221	221	221
	42	41	41	40
	557	26	26	26
	8	16	16	16
	208	208	208	208
	3,637	3,637	3,637	3,637
	75	78	78	78
	94	94	94	94
	120	131	133	134
	221	221	221	221
	42	41	41	40
	557	26	26	26

REMARKS
 FY 77 ECIP - Insulation and Controls - \$621,000 - Completed (estimated) June 1978
 FY 77 Family Housing ECIP Improvements - \$18,500 - Completed (estimated) October 1978
 **Populaton Served is the total Resident & Non Resident Population
 **ET Pop is Resident + 1/3 Non-Resident
 *PD is Percent Deviation from Base Year

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - SACRAMENTO ARMY DEPOT, CA - MACOM - BARCON - CLIMATIC REGION - HDD 2,843 CDD 1,159

UNITSIFY	75	76	77	78	79
1. Energy Consumption & PD	392,325	343,691	365,290	363,855	379,373
2. Thermal En Cons & PD	141,237	106,545	124,199	130,073	148,034
3. Electrical En Cons & PD	251,088	237,146	241,091	243,782	231,339
4. Resident Population & PD	27	30	32	33	28
5. Non-Resident Population & PD	2,914	2,676	2,588	2,979	2,819
6. Population Served** & PD	2,941	2,706	2,520	2,912	2,847
7. Effective Population*** & PD	998	922	861	993	968
8. En Consumption/Pop Served & PD	133.4	127.0	145.0	124.9	133.3
9. En Consumption/Resident Population	393.7	322.8	424.3	366.4	392.1
10. Electric En Consumption/Resident Population	612	628	753.4	738.7	826.3
11. Installed Air Cond Capacity & PD	410.3	377.6	383.9	388.2	410.0
12. Elec Energy/Ton of Air Cond & PD	2,824	2,838	2,838	2,839	2,839
13. Real Property Inventory (RPI) & PD	2.83	3.08	3.30	2.86	2.93
14. RPI/Effective Population	138.975	121.104	128.714	128.163	133.700
15. Energy Consumption/GSF & PD	50.013	37.562	43.763	42.294	52.143
16. Thermal En Consumption/GSF & PD	88.912	83.562	84.951	85.869	81.557
17. Electrical En Consumption/GSF & PD					
18. RPI by Category					
Training	.68	.68	.68	.68	.66
Maintenance & Production	284	284	302	302	302
Research, Development & Testing					
Storage	2,123	2,134	2,134	2,102	2,102
Other Covered Storage					
Hospital & Medical					
Administration	7	7	7	7	7
Bachelor Housing	184	184	185	191	191
Community Facilities	39	39	39	39	39
Family Housing	56	56	317	54	55
Operational Buildings	19	19	19	19	19
Utility Buildings	38	38	37	37	37
Other	Not Available	6	16	16	16

PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population *Eff Pop is Resident + 1/3 Non-Resident

REMARKS

UNITS/FY	75	76	77	78	79
1 Energy Consumption & PD	262,429	231,653 (-11.81)	284,200 (8.31)	276,745 (-2.65)	240,751 (-12.63)
2 Thermal En Cons & PD	141,712	113,412 (-20.01)	144,942 (22.31)	157,745 (9.51)	125,191 (-19.63)
3 Electrical En Cons & PD	120,717	118,041 (-2.22)	139,258 (22.11)	119,000 (-1.81)	115,560 (-2.83)
4 Resident Population & PD	634	576 (-9.11)	661 (13.31)	650 (-1.66)	689 (6.01)
5 Non-Resident Population & PD	556	516 (-7.21)	323 (-41.91)	336 (3.91)	330 (-1.81)
6 Population Served** & PD	1,190	1,092 (-8.21)	984 (-17.31)	986 (-0.21)	1,019 (3.31)
7 Effective Population*** & PD	819	748 (-8.71)	769 (2.61)	762 (-0.91)	799 (4.71)
8 En Consumption/Pop Served & PD	220.5	212.0 (-3.91)	288.8 (31.91)	280.7 (-2.81)	236.3 (-16.91)
9 En Consumption/En Pop & PD	320.4	309.4 (-3.41)	369.6 (18.81)	363.2 (-1.71)	301.3 (-16.01)
10 Electric En Consumption/Resident Population	190.4	204.9 (7.61)	210.7 (3.11)	183.1 (-12.81)	167.7 (-7.11)
11 Installed Air Cos. Capacity & PD	754	798 (5.81)	1,271 (58.61)	1,271 (0.01)	1,271 (0.01)
12 Elec Energy/En Cons & PD	160.1	147.9 (-7.61)	109.6 (-33.61)	93.6 (-15.51)	90.9 (-2.91)
13 Heat Property Inventory (HP) & PD	2,698	2,773 (2.81)	2,772 (-0.01)	2,755 (-0.61)	3,161 (14.51)
14 RPI/Effective Population	3.29	3.71 (12.51)	3.60 (-3.01)	3.62 (0.61)	3.98 (10.21)
15 Energy Consumption/GSF & PD	97,268	83,467 (-14.21)	102,525 (19.41)	100,452 (-2.01)	76,163 (-24.61)
16 Thermal En Consumption/GSF & PD	52,525	40,899 (-22.11)	52,288 (-4.51)	57,258 (9.01)	39,605 (-24.61)
17 Electrical En Consumption/GSF & PD	44,743	42,568 (-4.91)	50,237 (17.31)	43,194 (-16.31)	36,558 (-18.31)
18 RPI by Category					
Training					
Maintenance & Production	147	127	127	112	131
Research, Development & Testing	30	30	30	23	12
Storage	2,020	2,058	2,058	2,040	2,437
Other Covered Storage	7	7	7	7	7
Hospital & Medical	50	50	50	64	93
Administration	77	77	77	77	77
Bachelor Housing	195	195	195	214	179
Community Facilities	206	206	206	206	212
Family Housing	8	8	8	8	8
Operational Buildings	8	8	8	10	10
Utility Buildings	8	8	8	10	10
Other	8	8	8	10	10

**Population Served is the total Resident & Non-Resident Population
 ***En Pop is Resident + (1/3 Non-Resident)

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION SALVANCE ARMY DEPOT, ILL. MACOM_DABCOM CLIMATIC REGION 2 HDD 6,694 CDD 741

UNITS/FY	75	76	77	78	79
MRTU	243,662	182,369	185,466	190,198	205,818
MRTU	173,001	129,508	141,715	152,159	164,655
MRTU	70,661	53,061	44,751	38,039	41,163
PEOPLE	390	212	42	71	97
PEOPLE	798	664	471	522	571
PEOPLE	1,188	876	513	592	668
PEOPLE	656	433	199	245	287
MRTU/CAP	205.1	209.9	363.5	320.7	308.1
MRTU/CAP	371.4	422.6	937.0	776.3	717.1
MRTU/CAP	181.2	250.3	1,065.5	535.8	424.4
TONS	465	465	465	465	465
MRTU/TON	152.0	114.1	96.2	81.8	88.5
KSF	4,478	3,818	3,835	3,852	3,914
KSF/CAP	6.75	8.82	19.27	15.72	13.64
BTU/GSF	55,028	47,923	48,622	49,376	52,585
BTU/GSF	39,070	34,025	36,953	39,501	42,068
BTU/GSF	3,938	3,898	3,660	3,873	4,016
KSF	64	64	62	62	62
KSF	346	283	287	287	287
KSF	13	13	13	13	13
KSF	3,641	3,283	2,325	2,525	2,525
KSF	Not Available	Separately Included Above	BASE	767	767
KSF	10	10	10	10	10
KSF	113	71	75	75	83
KSF	60	1	1	1	38
KSF	70	25	27	34	31
KSF	9	34	34	46	62
KSF	25	26	26	26	26
KSF	Not Available	BASE	26	26	26

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Served** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/En Pop & PD
- 10 Electric En Consumption/Resident Population
- 11 Installed Air Cond Capacity & PD
- 12 Elec Energy/Ton of Air Cond & PD
- 13 Real Property Inventory (RPI) & PD
- 14 RPI/Effective Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPI by Category

- Training
- Maintenance & Production
- Research, Development & Testing
- Storage
- Other Covered Storage
- Hospital & Medical
- Administration
- Bachelor Housing
- Community Facilities
- Family Housing
- Operational Buildings
- Utility Buildings
- Other

**Population Served is the total Resident & Non-Resident Population
 ***En Pop is Resident + 1/3 Non-Resident

REMARKS

UNITS/FY	75	76	77	78	79
1 Energy Consumption & PD	1,014,808	640,515 (-36.9)	521,760 (-27.6)	735,146 (-27.6)	895,649 (-12)
2 Thermal En Cons & PD	629,181	371,499 (-41.0)	281,751 (-55.2)	455,791 (-27.6)	546,346 (-23)
3 Electrical En Cons & PD	385,627	269,016 (-30.2)	240,009 (-37.8)	279,355 (-27.6)	349,303 (-9.5)
4 Resident Population & PD	0	0	0	0	0
5 Non-Resident Population & PD	104	498 (-29.3)	536 (-23.9)	536 (-23.9)	536 (-23.9)
6 Population Served** & PD	204	498 (-29.3)	536 (-23.9)	536 (-23.9)	536 (-23.9)
7 Effective Population*** & PD	335	166 (-29.3)	179 (-23.9)	179 (-23.9)	179 (-23.9)
8 En Consumption/Pop Served & PD	1,441.5	1,286.2 (-10.8)	973.4 (-32.5)	973.4 (-32.5)	973.4 (-32.5)
9 En Consumption/EN Pop & PD	4,318.3	1,858.5 (-10.6)	2,914.9 (-32.5)	2,914.9 (-32.5)	2,914.9 (-32.5)
10 Electric En Consumption/Resident Population	-	-	-	-	-
11 Installed Air Cond Capacity & PD	-	-	-	-	-
12 Elec Energy/Ton of Air Cond & PD	-	-	-	-	-
13 Real Property Inventory (RPI) & PD	385	380 (-1.3)	381 (-1.0)	381 (-1.0)	381 (-1.0)
14 RPI/Effective Population	1.64	2.29 (1.9)	2.13 (2.9)	2.13 (2.9)	2.13 (2.9)
15 Energy Consumption/GSF & PD	2,615,864	1,685,566 (-36.1)	1,369,449 (-48.0)	1,369,449 (-48.0)	1,369,449 (-48.0)
16 Thermal En Consumption/GSF & PD	1,634,216	977,629 (-40.2)	739,504 (-54.7)	739,504 (-54.7)	739,504 (-54.7)
17 Electrical En Consumption/GSF & PD	1,001,648	707,937 (-29.3)	629,945 (-37.1)	629,945 (-37.1)	629,945 (-37.1)
18 RPI by Category	-	-	-	-	-
Training	-	-	-	-	-
Maintenance & Production	-	-	-	-	-
Research, Development & Testing	-	-	-	-	-
Storage	-	-	-	-	-
Other Covered Storage	-	-	-	-	-
Hospital & Medical	-	-	-	-	-
Administration	-	-	-	-	-
Bachelor Housing	-	-	-	-	-
Community Facilities	-	-	-	-	-
Family Housing	-	-	-	-	-
Operational Buildings	-	-	-	-	-
Utility Buildings	-	-	-	-	-
Other	-	-	-	-	-
Net Available	10	10	10	10	10

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***EN Pop is Resident + 1/3 Non-Resident

REMARKS Installation did not submit reports for FY78 or FY79.
 FY 77 ECIP - Insulation - \$162,000 - Completed (estimated) June 1978

UNITS/TYPE	76	78	77	79	79
MBTU	133,743	135,862	121,984	125,585	126,504
Thermal En Cons & PD	40,123	40,759	32,936	32,653	34,157
MBTU	93,620	95,103	89,048	92,932	92,347
Electrical En Cons & PD	122	123	114	129	120
PEOPLE	1,893	1,845	1,617	1,533	1,589
Non-Resident Population & PD	2,015	1,968	1,731	1,662	1,689
PEOPLE	753	738	653	640	643
Effective Population*** & PD	66.4	69.0	70.5	75.6	74.9
En Consumption/Pop Served & PD	177.6	184.1	186.8	196.2	196.7
MBTU/CAP	767.4	773.2	781.1	720.4	769.6
Electric En Consumption/Resident Population	303	410	418	418	450
Installed Air Cond Capacity & PD	309.0	232.0	213.0	222.3	205.2
Elect Energy/Ton of Air Cond & PD	3,164	3,166	3,128	3,143	3,076
Real Property Inventory (RPI) & PD	4.20	4.29	4.79	4.91	4.78
SPR/Effective Population	42,270	42,913	38,997	39,957	41,126
Energy Consumption/GSF & PD	12,661	12,874	10,529	10,389	11,104
Thermal En Consumption/GSF & PD	29,589	30,039	28,468	29,568	30,022
Electrical En Consumption/GSF & PD					
RPI by Category					
Training					
Maintenance & Production					
Research, Development & Testing					
Storage					
Other Covered Storage					
Hospital & Medical					
Administration					
Bachelor Housing					
Community Facilities					
Family Housing					
Operational Buildings					
Utility Buildings					
Other					
Net Available	378	378	300	284	253
Net Available Separately-Included Above	2,466	2,468	2,492	2,514	2,503
BASE	6	6	5	5	5
BASE	131	131	142	141	117
BASE	67	62	64	52	52
BASE	40	40	40	40	40
BASE	106	106	91	93	92
BASE	10	11	12	13	10
BASE	1	1	1	1	3

1. Energy Consumption & PD
2. Thermal En Cons & PD
3. Electrical En Cons & PD
4. Resident Population & PD
5. Non-Resident Population & PD
6. Population Served** & PD
7. Effective Population*** & PD
8. En Consumption/Pop Served & PD
9. En Consumption/RPI & PD
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity & PD
12. Elec Energy/Ton of Air Cond & PD
13. Real Property Inventory (RPI) & PD
14. SPR/Effective Population
15. Energy Consumption/GSF & PD
16. Thermal En Consumption/GSF & PD
17. Electrical En Consumption/GSF & PD
18. RPI by Category

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***Eff Pop is Resident + 1/3 Non-Resident

REMARKS FY 77 ECIP - Insulation and Heating System Improvements - \$186,998 - Completed (estimated) June 1978

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION SIERRA ARMY DEROT. CA. - MACOM DA:RCOM - CLIMATIC REGION 2 HDD 5,432 CDD 302

UNITS/FY	76	77	78	79
MBTU	223,452	222,202	191,008	212,679
MBTU	138,541	131,101	88,278	104,189
MBTU	84,911	111,101	103,630	108,447
PEOPLE	880	826	779	967
PEOPLE	527	499	530	592
PEOPLE	1,407	1,325	1,309	1,359
PEOPLE	1,056	992	956	1,164
MBTU/CAP	158.8	167.7	146.6	136.4
MBTU/CAP	211.6	224.0	200.7	182.7
MBTU/CAP	224.9	234.5	233.0	228.1
TONS	200	200	228	228
MBTU/TON	424.6	555.6	454.5	475.6
KSFCAP	4,978	5,013	4,999	4,971
BTU/GSF	44,888	44,325	38,389	42,774
BTU/GSF	27,831	22,163	17,559	20,959
BTU/GSF	17,057	22,162	20,730	21,915
KSF	13	11	11	11
KSF	268	259	259	259
KSF	4,223	1,951	1,951	1,951
KSF	Not Available	BASE	2,255	2,247
KSF	18	39	39	25
KSF	95	87	87	82
KSF	60	72	84	82
KSF	128	132	123	123
KSF	102	130	130	130
KSF	54	54	39	39
KSF	17	21	21	20
KSF	Not Available	BASE	2	2

1. Energy Consumption & PD
2. Thermal En Cons & PD
3. Electrical En Cons & PD
4. Residential En Cons & PD
5. Non-Residential Population & PD
6. Population Served** & PD
7. Effective Population*** & PD
8. En Consumption/Pop Served & PD
9. En Consumption/Eff Pop & PD
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity & PD
12. Elec Energy/Ton of Air Cond & PD
13. Heat Property Inventory (HPI) & PD
14. HPI/Electric Population
15. Energy Consumption/GSF & PD
16. Thermal En Consumption/GSF & PD
17. Electrical En Consumption/GSF & PD
18. HPI by Category

**Eff Pop is Resident + 1/3 Non-Resident
 ***Population Served is the total Resident & Non-Resident Population
 *PD is Percent Deviation from Base Year

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - TORVHANNA-ABBY-DEPOT_PA - MACOM - DARCOM - CLIMATIC REGION - 2 - HDD 6,816 CDD 434

UNITS/TYPE	76	76	77	78	78	78
1 Energy Consumption & PD	822,301	697,034 (-15.2)	793,074 (-3.6)	830,136 (-1.0)	805,710 (-2.0)	
2 Thermal En Cons & PD	616,726	494,895 (-19.8)	571,014 (-7.4)	606,000 (-1.7)	563,997 (-8.5)	
3 Electrical En Cons & PD	205,575	202,139 (-1.7)	222,060 (8.0)	224,136 (9.0)	241,713 (41.8)	
4 Resident Population & PD	114	147 (28.0)	109 (-4.4)	253 (121.9)	276 (14.2)	
5 Non-Resident Pop Served & PD	3,449	3,439 (-0.3)	3,585 (3.9)	3,821 (10.8)	3,951 (13.7)	
6 Population Served** & PD	3,563	3,586 (0.6)	3,694 (3.1)	4,074 (14.3)	4,197 (17.4)	
7 Effective Population*** & PD	1,264	1,293 (2.3)	1,304 (3.2)	1,527 (20.8)	1,563 (25.2)	
8 En Consumption Pop Served & PD	230.8	194.4 (-15.8)	214.7 (-7.0)	203.8 (-11.7)	192.0 (-16.8)	
9 En Consumption Eff Pop & PD	650.6	539.1 (-17.1)	608.2 (-6.5)	543.6 (-16.4)	509.0 (-23.8)	
10 Electrical En Consumption/Resident Population	1,803.3	1,375.1 (-23.7)	2,037.2 (13.0)	885.9 (-50.9)	875.8 (-51.2)	
11 Installed Air Cond Capacity & PD	804	834 (3.7)	933 (16.0)	932 (15.9)	936 (15.3)	
12 Elec Energy/Ton of Air Cond & PD	255.7	242.4 (-5.2)	238.0 (-6.9)	240.5 (-5.9)	258.2 (7.0)	
13 Real Property Inventory (RPI) & PD	3,456	3,515 (1.7)	3,564 (3.1)	3,671 (6.2)	3,698 (7.0)	
14 Non-Elective Population	2,73	2,72 (-0.6)	2,73 (0.0)	2,40 (-12.1)	2,34 (-16.6)	
15 Energy Consumption/GSF & PD	237,934	198,302 (-16.7)	222,523 (-6.5)	226,133 (-1.6)	217,877 (-8.2)	
16 Thermal En Consumption/GSF & PD	178,451	140,795 (-21.1)	160,217 (-10.2)	165,077 (-7.5)	152,514 (-14.5)	
17 Electrical En Consumption/GSF & PD	59,483	57,507 (-3.3)	62,306 (4.7)	61,056 (-2.6)	65,353 (9.9)	
18 RPI by Category						
Training	7	7	7	7	7	
Maintenance & Production	528	566	652	668	668	
Research, Development & Testing	20	20	21	21	21	
Storage	2,421	2,445				
Other Covered Storage						
Hospital & Medical	17	12	12	12	12	
Administration	193	193	196	197	197	
Bachelor Housing	61	61	61	61	61	
Community Facilities	136	134	138	153	153	
Family Housing	5	5	5	5	5	
Operational Buildings	53	49	57	57	57	
Unity Buildings	20	21	23	23	23	
Other						

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Pop Served & PD
- 6 Population Served** & PD
- 7 Effective Population*** & PD
- 8 En Consumption Pop Served & PD
- 9 En Consumption Eff Pop & PD
- 10 Electrical En Consumption/Resident Population
- 11 Installed Air Cond Capacity & PD
- 12 Elec Energy/Ton of Air Cond & PD
- 13 Real Property Inventory (RPI) & PD
- 14 Non-Elective Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPI by Category

Training
 Maintenance & Production
 Research, Development & Testing
 Storage
 Other Covered Storage
 Hospital & Medical
 Administration
 Bachelor Housing
 Community Facilities
 Family Housing
 Operational Buildings
 Unity Buildings
 Other

PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population *Eff Pop is Resident + 1/3 Non-Resident

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION TOOELE ARMY DEPOT, UT MACOM, DARGOM CLIMATIC REGION 2 HDD 5,941 CDD 859

UNITS/FY	75	76	77	78	79
MBTU	1,351,932	1,225,371	1,264,065	1,167,517	1,205,471
MBTU	851,718	747,477	796,361	735,536	745,533
MBTU	500,214	477,894	467,704	431,981	456,938
PEOPLE	259	461	401	547	432
PEOPLE	4,505	6,320	5,706	5,222	4,970
PEOPLE	4,764	6,781	6,102	5,769	5,402
PEOPLE	1,761	2,568	2,303	2,288	2,089
MBTU/CAP	283.8	180.7	207.0	202.4	222.6
MBTU/CAP	767.7	477.2	548.9	510.3	575.6
TONS	1,911.1	1,036.6	1,166.3	789.7	1,057.7
MBTU/TON	1,673	1,671	1,317	1,317	1,302
KSF	16,022	17,826	17,613	18,601	19,710
KSF	9.10	6.94	7.65	8.13	9.44
BTU/GSF	84,380	68,741	71,769	62,766	61,008
BTU/GSF	51,159	41,932	45,214	39,543	37,825
BTU/GSF	31,229	26,809	26,553	23,223	23,183
KSF	79	39	51	51	51
KSF	2,249	2,156	1,954	2,075	2,086
KSF	17,067	13,982	8,127	8,804	8,800
KSF	50	35	39	42	52
KSF	521	456	454	423	437
KSF	114	114	125	125	125
KSF	240	235	216	234	243
KSF	174	174	174	126	125
KSF	518	562	504	510	517
KSF	110	118	111	114	115
KSF	Not Available	5	11	11	12

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Served** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/EH Pop & PD
- 10 Electric En Consumption/Resident Population
- 11 Installed Air Cond Capacity & PD
- 12 Elec Energy/Tran of Air Cond & PD
- 13 Real Property Inventory (RPI) & PD
- 14 RPI/Effective Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPI by Category

*PD is Percent Deviation from Base Year **Population Served is the total Resident & Non-Resident Population ***EH Pop is Resident + 1/3 Non-Resident

REMARKS Data includes Pueblo AD, Ft Wingate AD, Umatilla AD and Navajoe AD which are sub-activities of Tooele AD.
 ▽ FY 76 ECIP (Wingate) - Insulation - \$140,386 - Completed December 1977
 ▽ FY 76 ECIP (Pueblo) - Insulation - \$1,573,709 - Completed December 1977
 ▽ FY 77 ECIP (Pueblo) - Energy Monitoring/Control System - \$379,000 - Completed (estimated) June 1978
 ▽ FY 77 ECIP (Tooele) - Insulation - \$2,572,000 - Completed (estimated) June 1978

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION TWIN CITIES AAF, MN MACOM 1 RECOM CLIMATIC REGION 1 HDD 8,310 CDD 527

UNITS/FY	76	78	77	78	79	79
1. Energy Consumption & PD	1,408,367	1,093,259	712,063	839,591	840,990	840,990
2. Thermal En Cons & PD	746,435	655,956	477,083	503,755	496,185	496,185
3. Electrical En Cons & PD	661,932	437,303	234,980	335,836	344,805	344,805
4. Resident Population & PD	50	60	51	47	57	57
5. Non-Resident Population & PD	2,047	1,139	841	1,843	1,936	1,936
6. Population Served** & PD	2,097	1,219	892	1,990	1,993	1,993
7. Effective Population*** & PD	732	446	365	695	702	702
8. En Consumption/Pop Served & PD	671.6	866.8	717.8	421.9	422.0	422.0
9. En Consumption/Pop & PD	1,924.0	2,451.2	1,950.9	1,208.0	1,198.0	1,198.0
10. Electric En Consumption/Resident Population	13,238.6	7,288.4	4,607.4	7,145.4	6,049.3	6,049.3
11. Installed Air Cond Capacity & PD	214	214	214	214	214	214
12. Elec Energy/Ton of Air Cond & PD	3,093.1	2,093.5	1,933.91	4,462	4,461	4,461
13. Real Property Inventory (RPI) & PD	4,376	4,377	4,383	4,462	4,461	4,461
14. RPI/Effective Population	5.98	9.81	12.0	6.42	6.35	6.35
15. Energy Consumption/GSF & PD	321,839	249,773	162,460	188,165	188,520	188,520
16. Thermal En Consumption/GSF & PD	170,575	149,864	108,849	112,899	111,227	111,227
17. Electrical En Consumption/GSF & PD	151,264	99,909	53,611	75,266	77,293	77,293
18. RPI by Category						
Training						
Maintenance & Production						
Research, Development & Testing						
Storage						
Other Covered Storage						
Hospital & Medical Administration						
Bachelor Housing						
Community Facilities						
Family Housing						
Operational Buildings						
Utility Buildings						
Other						
Non Available Separately Included Above						
BASE						
Non Available						
PD as Percent Deviation from Base Year						
**Population Served is the total Resident & Non-Resident Population						
***Eff Pop is Resident + 1/3 Non-Resident						

1. Energy Consumption & PD
2. Thermal En Cons & PD
3. Electrical En Cons & PD
4. Resident Population & PD
5. Non-Resident Population & PD
6. Population Served** & PD
7. Effective Population*** & PD
8. En Consumption/Pop Served & PD
9. En Consumption/Pop & PD
10. Electric En Consumption/Resident Population
11. Installed Air Cond Capacity & PD
12. Elec Energy/Ton of Air Cond & PD
13. Real Property Inventory (RPI) & PD
14. RPI/Effective Population
15. Energy Consumption/GSF & PD
16. Thermal En Consumption/GSF & PD
17. Electrical En Consumption/GSF & PD
18. RPI by Category

REMARKS

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - UNDERHILL FIRING RANGE, VT. MACOM - DAPCOM - CLIMATIC REGION 1 HDD 2,526 CDD 100
 ETHAN ALLEN FIRING RANGE, VT (Renamed in FY 77)

UNITS/FY	75	76	77	78	79
1. Energy Consumption & PD	8,573	11,798	8,430	9,920	15,571
2. Thermal En Cons & PD	3,515	3,540	3,541	4,663	3,271
3. Electrical En Cons & PD	5,058	8,258	4,889	5,257	12,300
4. Resident Population & PD	0	0	0	0	0
5. Non-Resident Population & PD	42	42	45	45	45
6. Population Served** & PD	42	42	45	45	45
7. Effective Population*** & PD	14	14	15	15	15
8. En Consumption/Pop Served & PD	204.1	280.9	187.3	220.4	190.4
9. En Consumption/Eff Pop & PD	612.4	847.7	562	661.3	571.3
10. Electric En Consumption/Resident Population	6	6	6	6	6
11. Incandescent Capacity & PD	843	1,376.3	814.8	876.2	871.2
12. Elec Energy/Ton of Air Cond & PD	34	35	40	88	92
13. Rear Property Inventory (RPI) & PD	2.43	2.5	2.67	5.87	6.73
14. RPI/Effective Population	252.147	337.086	210.250	112.727	133.152
15. Energy Consumption/GSF & PD	103.382	101.143	88.525	52.880	36.337
16. Thermal En Consumption/GSF & PD	198.765	215.943	172.225	394.748	364.815
17. Electrical En Consumption/GSF & PD					
18. RPI by Category					
Training			2	4	4
Maintenance & Production					
Research, Development & Testing	18	18	18	18	19
Storage	11	16	7	6	6
Other Covered Storage			10	9	9
Hospital & Medical					
Administration			1	1	1
Bachelor Housing					
Community Facilities			2	50	50
Family Housing	4				
Operational Buildings					
Utility Buildings					
Other					
Not Available					
BASE					

**Population Served is the total Resident & Non-Resident Population
 ***Eff Pop = Resident + 1/3 Non-Resident

REMARKS

UNITSIFY	75	76	77	78	79
MBTU	1,436,646	1,196,194	818,874	134,014	74,785
MBTU	933,320	765,355	507,678	46,905	0
MBTU	502,826	430,629	311,156	87,109	74,285
PEOPLE	0	0	0	0	0
PEOPLE	470	487	233	213	206
PEOPLE	470	487	233	213	206
PEOPLE	157	162	78	71	69
MBTU/CAP	3,056.7	2,456.3	3,514.3	629.2	343.0
MBTU/CAP	9,150.6	7,383.9	10,497.9	1,867.5	1,083.8
TONS	750	750	750	375	335
MBTU/TON	670.4	574.2	416.9	232.3	223.2
KSF	967	968	1,132	920	930
KSF/CAP	6.16	5.98	14.51	14.51	13.33
BTU/GSF	1,485,673	1,235,738	723,352	145,667	81,288
BTU/GSF	965,688	790,873	448,479	50,984	0
BTU/GSF	519,985	444,865	274,873	96,683	51,288
KSF	9	9	6	6	6
KSF	187	186	327	186	186
KSF	2	2	2	2	2
KSF	462	462	320	320	320
KSF	Not Available	Not Available	BASE	136	136
KSF	6	13	7	7	7
KSF	73	69	70	39	39
KSF	15	15	14	14	14
KSF	9	11	12	11	11
KSF	204	201	204	201	201
KSF	Not Available	Not Available	BASE	4	4

- 1 Energy Consumption & PD
- 2 Thermal En Cons & PD
- 3 Electrical En Cons & PD
- 4 Resident Population & PD
- 5 Non-Resident Population & PD
- 6 Population Served** & PD
- 7 Effective Population*** & PD
- 8 En Consumption/Pop Served & PD
- 9 En Consumption/Pop & PD
- 10 Electric En Consumption/Resident Population
- 11 Incandescent Air Cond. Capacity & PD
- 12 Elec Energy/Ton of Air Cond & PD
- 13 Heat Property Inventory (HP) & PD
- 14 RPI/Effective Population
- 15 Energy Consumption/GSF & PD
- 16 Thermal En Consumption/GSF & PD
- 17 Electrical En Consumption/GSF & PD
- 18 RPI by Category

**Population Served is the total Resident & Non-Resident Population
 ***Eff Pop is Resident + 1/3 Non-Resident
 *PD is Percent Deviation from Base Year

REMARKS

AD-A091 723 ARMY FACILITIES ENGINEERING SUPPORT AGENCY FORT BELV--ETC F/G 13/1
ARMY ENERGY DATA ANALYSIS.(U)

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UNITS/FY	75	76	77	78	79
1. Energy Consumption & PD	739,107	716,255 (-3.1)	785,564 (6.3)	850,803 (8.3)	912,868 (7.3)
2. Thermal En Cons & PD	376,945	358,128 (-5.0)	372,071 (-4.1)	399,878 (7.5)	438,177 (9.4)
3. Electrical En Cons & PD	362,162	358,127 (-1.1)	408,493 (12.8)	450,925 (10.3)	474,691 (5.3)
4. Resident Population & PD	772	766 (-0.8)	759 (-0.8)	765 (0.7)	754 (-1.3)
5. Non-Resident Population & PD	2,679	2,565 (-4.3)	2,602 (-1.3)	2,597 (-0.2)	2,804 (8.0)
6. Population Served** & PD	2,951	2,831 (-4.1)	2,661 (-6.0)	2,862 (7.6)	3,038 (6.0)
7. Effective Population*** & PD	1,165	1,120 (-3.9)	1,126 (0.5)	1,131 (0.4)	1,136 (0.4)
8. En Consumption/Pop Served & PD	250.5	253.0 (1.0)	234.6 (-7.1)	297.3 (28.7)	443.6 (47.1)
9. En Consumption/Pop & PD	636.4	639.5 (0.5)	697.7 (10.0)	752.3 (7.8)	1,067.7 (42.3)
10. Electric En Consumption/Resident Population	1,331.5	1,346.3 (1.1)	1,577.2 (18.4)	1,701.6 (7.9)	1,868.9 (9.9)
11. Installed Air Cond Capacity & PD	897	1,087 (21.2)	1,136 (4.5)	1,136 (0.0)	1,136 (0.0)
12. Elec Energy/Ton of Air Cond & PD	403.7	329.5 (-18.4)	359.6 (9.1)	396.9 (9.4)	417.9 (5.3)
13. Heat Property Inventory (Btu) & PD	2,158	2,175 (0.8)	2,174 (0.0)	2,160 (-0.6)	2,105 (-2.5)
14. RPI/Effective Population	1.85	1.94 (4.9)	1.93 (0.5)	1.91 (1.0)	2.46 (28.3)
15. Energy Consumption/GSF & PD	342,496	329,313 (-3.8)	361,345 (9.4)	393,890 (9.0)	433,667 (10.1)
16. Thermal En Consumption/GSF & PD	174,673	164,656 (-5.7)	173,446 (5.0)	185,129 (6.8)	208,160 (12.4)
17. Electrical En Consumption/GSF & PD	167,823	164,656 (-1.9)	187,899 (16.5)	208,761 (16.5)	225,507 (8.0)
18. RPI by Category					
Training	4	4	4	4	4
Measurement & Production	1,206	1,201	1,201	1,201	1,195
Research, Dev, Support & Testing	200	200	200	200	194
Storage	318	319	319	319	289
Other Covered Storage	7	7	7	7	7
Hospital & Inf-Care	153	153	152	152	152
Administration	1	1	1	1	1
Bachelor Housing	39	45	45	45	39
Community Facilities	176	176	176	176	176
Family Housing	19	19	19	19	18
Operational Buildings	37	36	36	36	36
Utility Buildings	14	14	14	14	14
Other					

**Population Served is the total Resident & Non-Resident Population
 ***Eff Pop is Resident + 1/3 Non-Resident
 *PD is Percent Deviation from Base Year

REMARKS: FY 77 ECIP - Insulation, Small Boiler and Heating Controls - \$862,559 - Completed (estimated) June 1978
 FY 77 Family Housing ECIP Improvements - \$16,375 - Completed (estimated) October 1978

U.S. Army - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION WHITE SANDS MISSILE RANGE, N.M. MACOM DABCOM CLIMATIC REGION 7 HDD 2.52L CDD 2.243

UNITS/RY	76	76	77	78	78	78
1. Energy Consumption @ PD	1,321,251	1,094,275	1,299,738	1,166,980	1,166,980	1,225,306
2. Thermal En Cons @ PD	554,826	361,111	714,856	78,811	326,255	367,592
3. Electrical En Cons @ PD	766,325	733,164	584,882	1,23,711	840,225	857,714
4. Resident Population @ PD	1,420	1,375	1,59,811	3,323	3,055	3,010
5. Non-Resident Population @ PD	2,000	5,512	1,175,611	5,627	5,520	5,749
6. Population Served** @ PD	5,420	6,887	1,27,111	8,950	8,575	8,759
7. Effective Population*** @ PD	4,087	3,212	1,21,411	5,199	4,895	4,926
8. En Consumption/Pop Served @ PD	243.8	158.9	1,34,811	145.2	145.2	136.1
9. En Consumption/Resident Pop @ PD	323.3	340.7	1,5,411	250.0	238.4	246.7
10. Electric En Consumption/Resident Pop	224.1	533.2	1,138,011	176.0	275.0	284.9
11. Installed Air Cond Capacity @ PD	9,320	13,210	13,210	13,210	13,210	13,210
12. Elec Energy/Ton of Air Cond @ PD	82.2	55.5	1,32,511	44.3	63.6	52.9
13. Real Property Inventory (RPI) @ PD	5,070	4,836	1,4,611	4,952	4,955	4,493
14. RPI/Effective Population	1.24	1.51	1,21,411	1.95	1.01	.91
15. Energy Consumption/GSF @ PD	260,602	226,277	262,467	1,07,911	235,516	272,714
16. Thermal En Consumption/GSF @ PD	109,453	74,671	144,357	1,31,911	65,945	81,814
17. Electrical En Consumption/GSF @ PD	151,149	151,606	118,110	1,21,811	169,571	190,900
18. RPI by Category						
Training	32	32	32	32	32	32
Maintenance & Production	323	327	326	326	323	311
Research, Development & Testing	1,462	1,438	1,438	1,434	1,434	1,014
Storage	468	468	68	67	67	53
Other Covered Storage						
Hospital & Medical	61	61	61	61	61	61
Administration	454	446	451	449	449	471
Bachelor Housing	360	347	392	392	392	387
Community Facilities	257	282	282	276	276	272
Family Housing	1,173	1,175	1,287	1,287	1,287	1,288
Operational Buildings	453	164	163	163	167	163
Utility Buildings	21	16	35	35	35	36
Other						

Population Served is the total Resident & Non-Resident Population *Eff Pop is Resident + 1/3 Non-Resident

**PD is Percent Deviation from Base Year

REMARKS

U.S. Army -- ANALYSIS OF ENERGY CONSUMPTION -- INSTALLATION YUMA PROVING GROUND, AZ MACOM DARGON CLIMATIC REGION 6 HDD 968 CDD 4,261

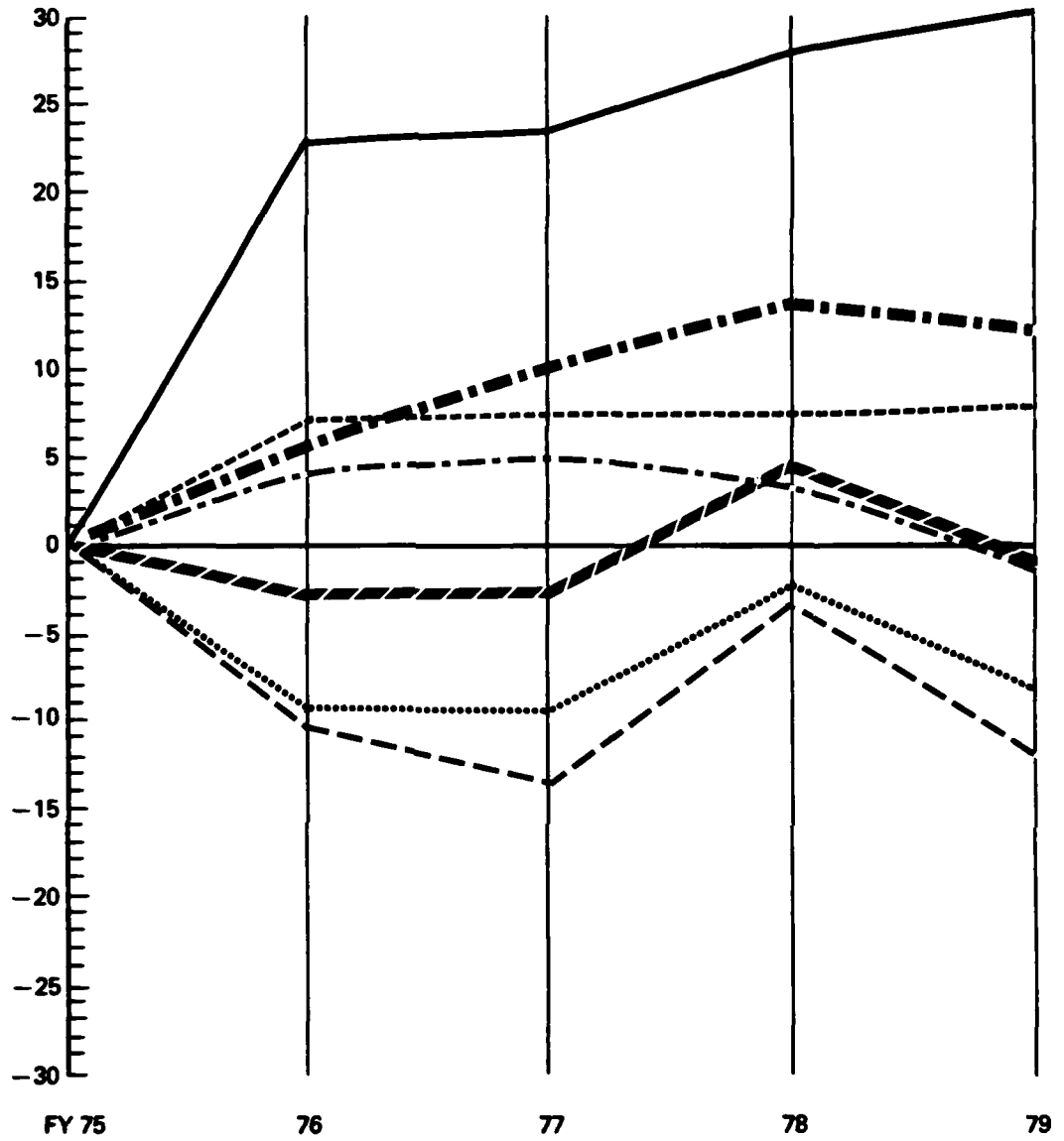
UNITSIFY	'76	'76	'77	'78	'78	'78
MRTU	309,095	309,978	310,731	308,996		344,017
MRTU	24,728	21,699	21,752	18,540	(-25.0)	24,082
MRTU	284,367	288,279	288,979	290,456	(-2.1)	319,935
PEOPLE	1,675	1,680	1,685	1,089	(-35.0)	1,219
PEOPLE	285	290	295	224.6		221.4
PEOPLE	1,390	1,390	1,390	864.4		997.6
PEOPLE	1,770	1,770	1,411	1,324	(-21.1)	1,524
MRTUCAP	157.7	157.3	150.5	153.6	(-2.7)	160.8
MRTUCAP	174.6	174.4	220.2	221.2	(-26.7)	225.7
MRTUCAP	169.8	171.6	266.3	266.7	(-57.1)	262.5
TONS	3,000	3,059	4,083	4,093	(-36.4)	5,876
MRTU/TON	94.8	94.2	70.8	71.0	(-25.3)	54.4
KSF	1,311	1,360	1,404	1,409	(-7.5)	1,408
KSF/CAP	.74	.77	1.00	1.01	(-36.2)	.92
BTU/GSF	235,770	227,925	221,318	219,302	(-7.0)	244,330
BTU/GSF	18,862	15,955	15,493	13,158	(-30.2)	17,104
BTU/GSF	216,908	211,970	205,825	206,144	(-5.0)	227,226
KSF						
KSF	166	137	136	136		140
KSF	274	274	280	281		281
KSF	118	135	60	60		60
KSF	Not Available Separately Included Above					
KSF	13	13	110	108		105
KSF	76	104	109	113		114
KSF	173	176	176	170		170
KSF	109	130	132	132		132
KSF	360	358	360	360		360
KSF	21	21	20	25		23
KSF	Not Available	3	7	10		10
KSF		5	1			

1. Thermal Consumption & PD
 2. Thermal En. Cons. & PD
 3. Electrical En. Cons. & PD
 4. Resident Population & PD
 5. Non-Resident Population & PD
 6. Population Served** & PD
 7. Effective Population*** & PD
 8. En. Consumption/Pop Served & PD
 9. En. Consumption/Pop Served & PD
 10. Electric En. Consumption/Resident Population
 11. Installed Air Cond Capacity & PD
 12. Elec Energy/Ton of Air Cond & PD
 13. Real Property Inventory (RPI) & PD
 14. RPI/Effective Population
 15. Energy Consumption/GSF & PD
 16. Thermal En. Consumption/GSF & PD
 17. Electrical En. Consumption/GSF & PD
 18. RPI by Category
- Training
Maintenance & Production
Research, Development & Testing
Storage
Other Covered Storage
Hospital & Medical
Administration
Bachelor Housing
Community Facilities
Family Housing
Operational Buildings
Library Buildings
Other

**Population Served is the total Resident & Non-Resident Population
***En Pop is Resident + 1/3 Non-Resident

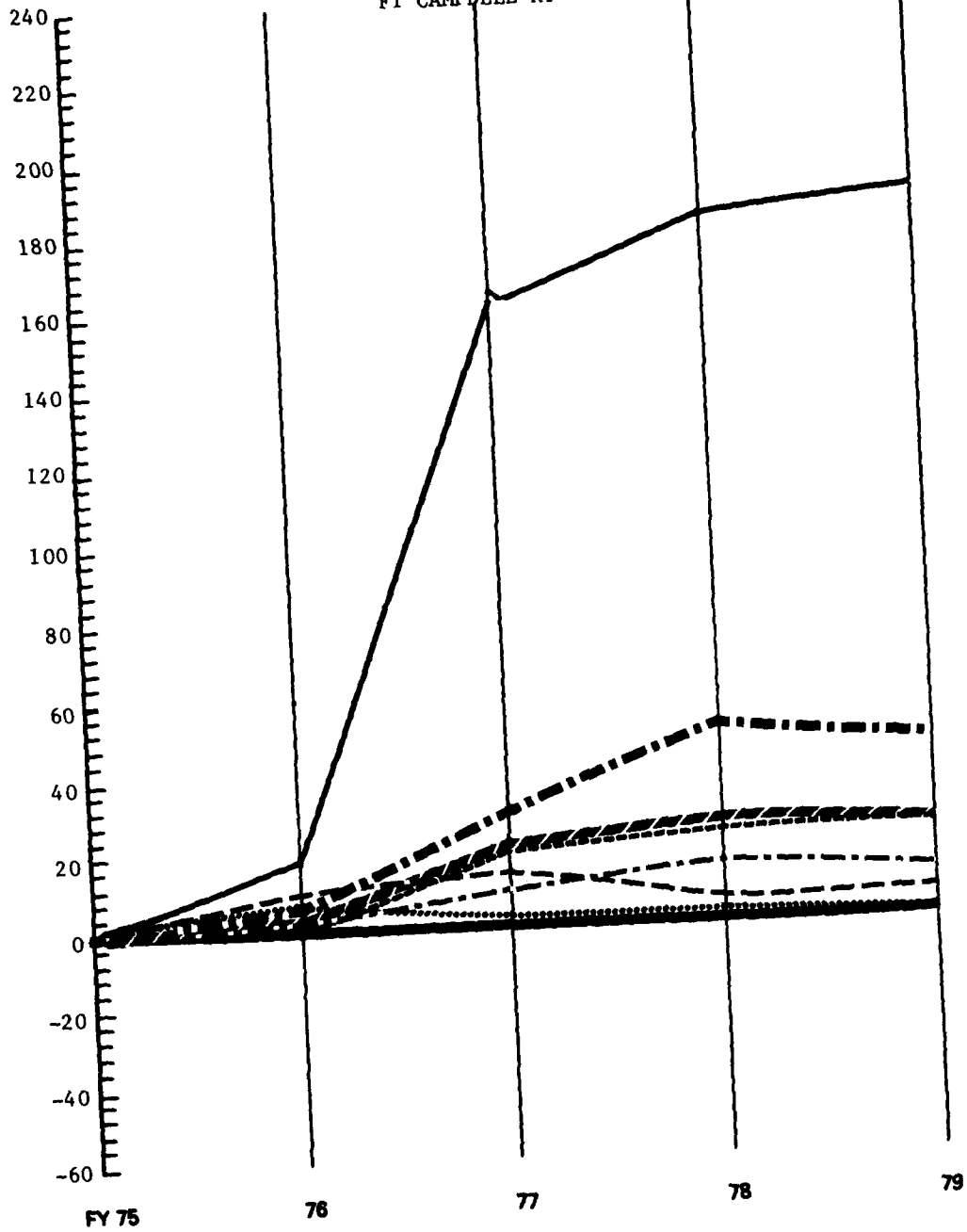
REMARKS

FT BRAGG NC



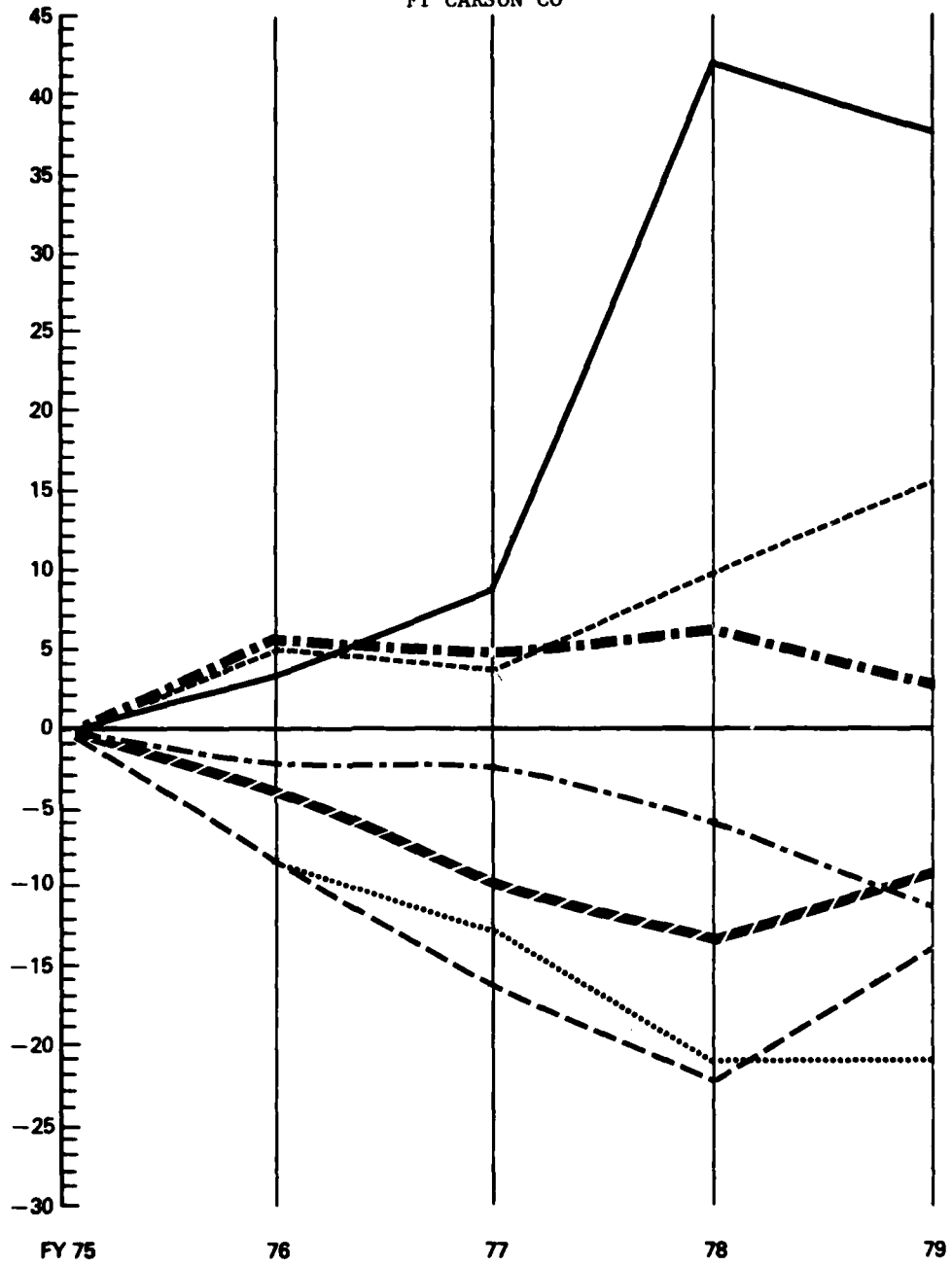
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- 2. - - - THERMAL ENERGY CONSUMPTION
- 3. ■ ■ ■ ELECTRIC ENERGY CONSUMPTION
- 4. - - - - - ACTIVE REAL PROPERTY INVENTORY
- 5. BTU/GSF
- 6. ——— INSTALLED AIR CONDITIONING CAPACITY
- 7. - - - EFFECTIVE POPULATION

FT CAMPBELL KY



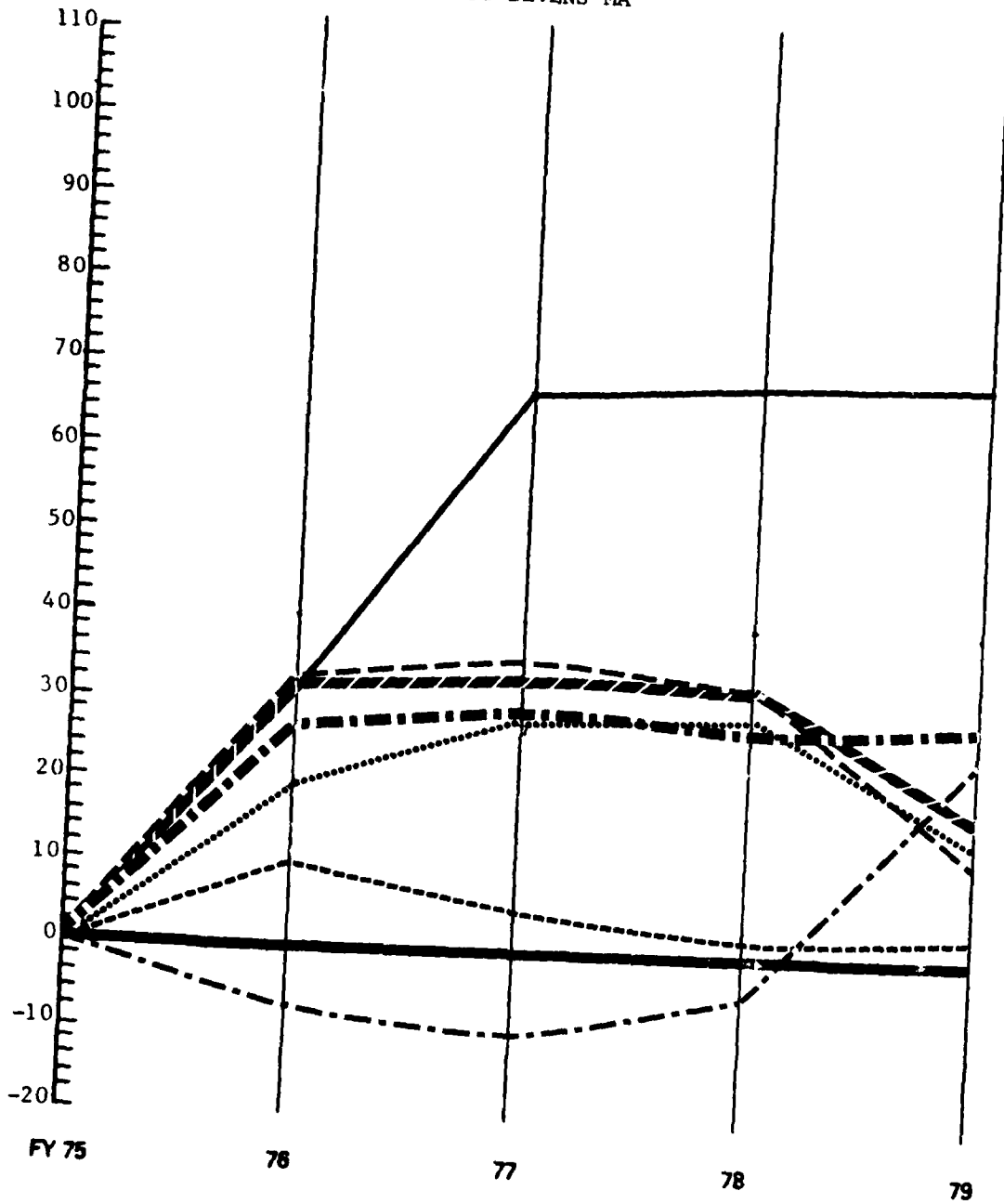
- 1. // // // TOTAL ENERGY CONSUMPTION
- 2. - - - THERMAL ENERGY CONSUMPTION
- 3. ■ ■ ■ ELECTRIC ENERGY CONSUMPTION
- 4. - - - - ACTIVE REAL PROPERTY INVENTORY
- 5. BTU/GSF
- 6. _____ INSTALLED AIR CONDITIONING CAPACITY
- 7. - - - - EFFECTIVE POPULATION

FT CARSON CO



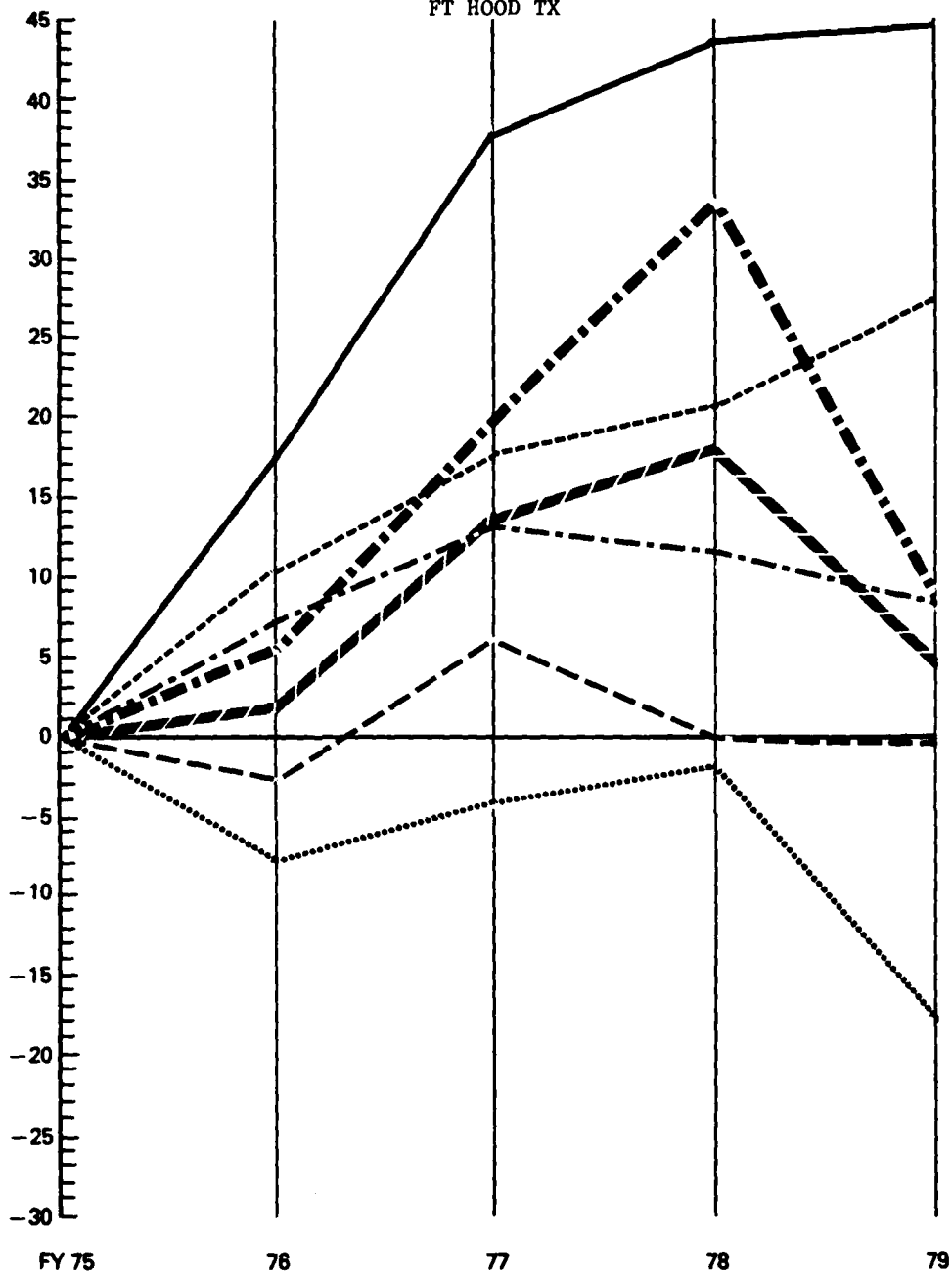
- 1. TOTAL ENERGY CONSUMPTION
- 2. THERMAL ENERGY CONSUMPTION
- 3. ELECTRIC ENERGY CONSUMPTION
- 4. ACTIVE REAL PROPERTY INVENTORY
- 5. BTU/GSF
- 6. INSTALLED AIR CONDITIONING CAPACITY
- 7. EFFECTIVE POPULATION

FT DEVENS MA



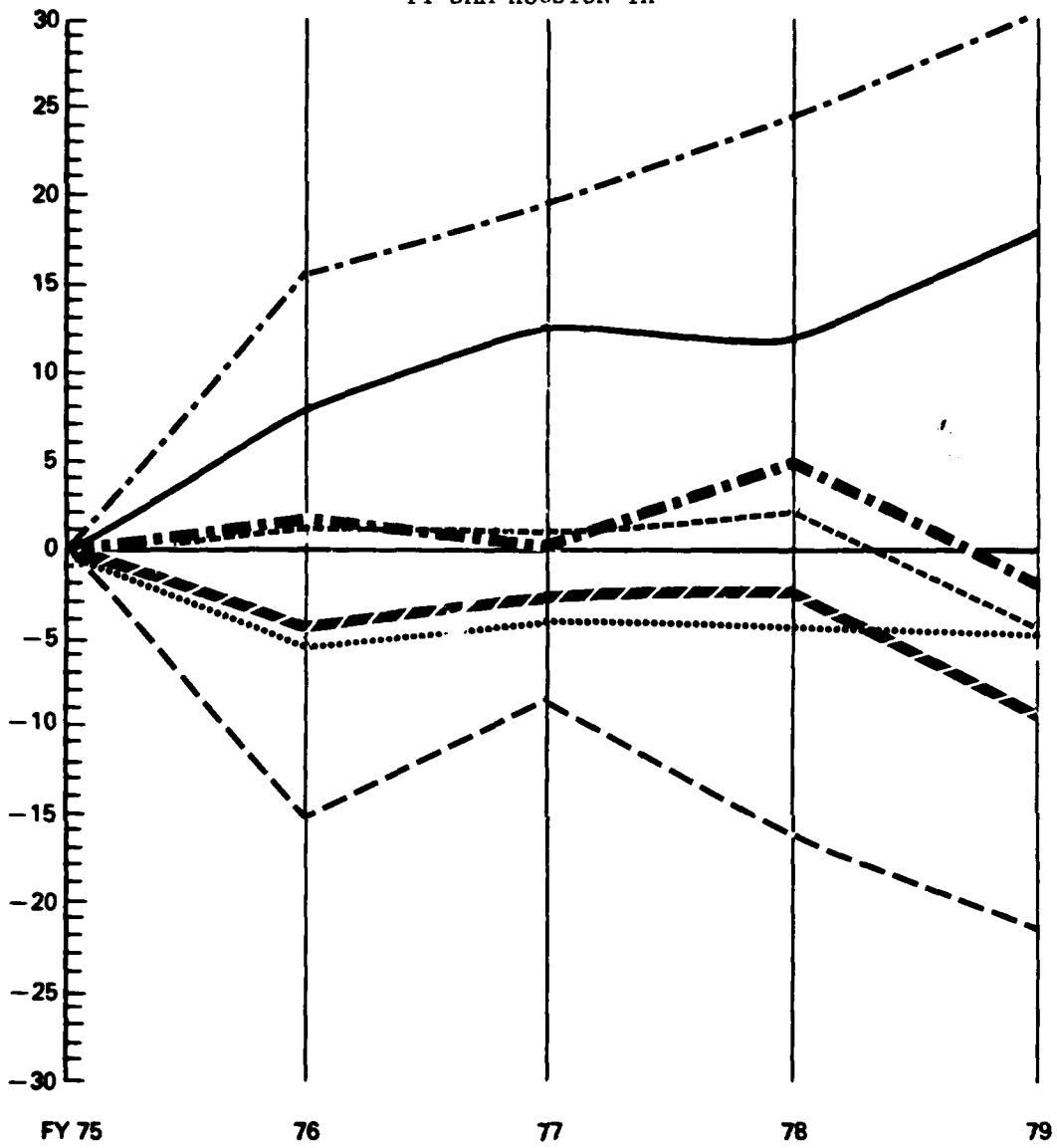
- 1. TOTAL ENERGY CONSUMPTION
- 2. THERMAL ENERGY CONSUMPTION
- 3. ELECTRIC ENERGY CONSUMPTION
- 4. ACTIVE REAL PROPERTY INVENTORY
- 5. BTU/GSF
- 6. INSTALLED AIR CONDITIONING CAPACITY
- 7. EFFECTIVE POPULATION

FT HOOD TX



- 1. TOTAL ENERGY CONSUMPTION
- 2. THERMAL ENERGY CONSUMPTION
- 3. ELECTRIC ENERGY CONSUMPTION
- 4. ACTIVE REAL PROPERTY INVENTORY
- 5. BTU/GSF
- 6. INSTALLED AIR CONDITIONING CAPACITY
- 7. EFFECTIVE POPULATION

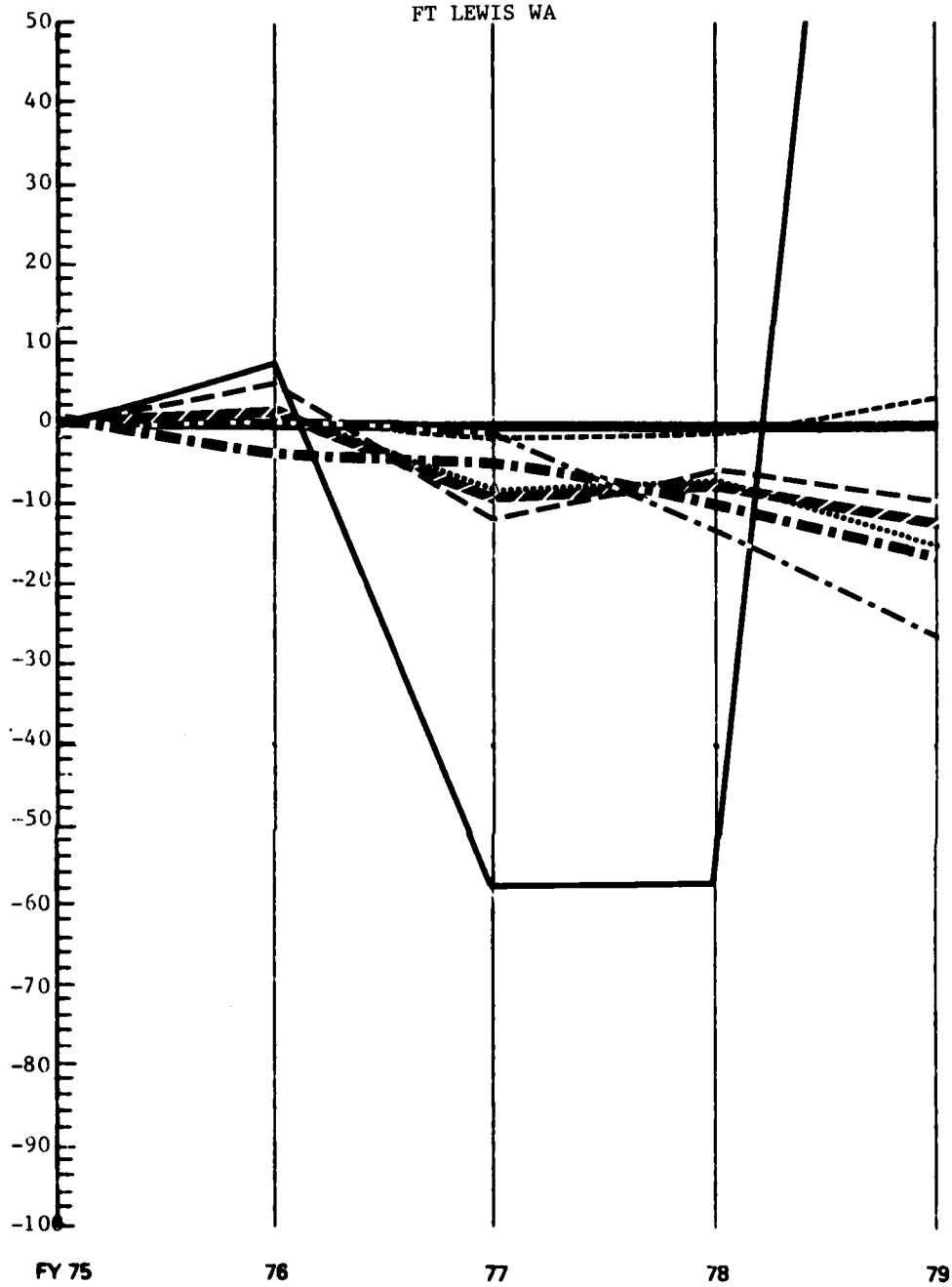
FT SAM HOUSTON TX



- 1. **////** TOTAL ENERGY CONSUMPTION
- 2. **---** THERMAL ENERGY CONSUMPTION
- 3. **■ ■ ■** ELECTRIC ENERGY CONSUMPTION
- 4. **-----** ACTIVE REAL PROPERTY INVENTORY

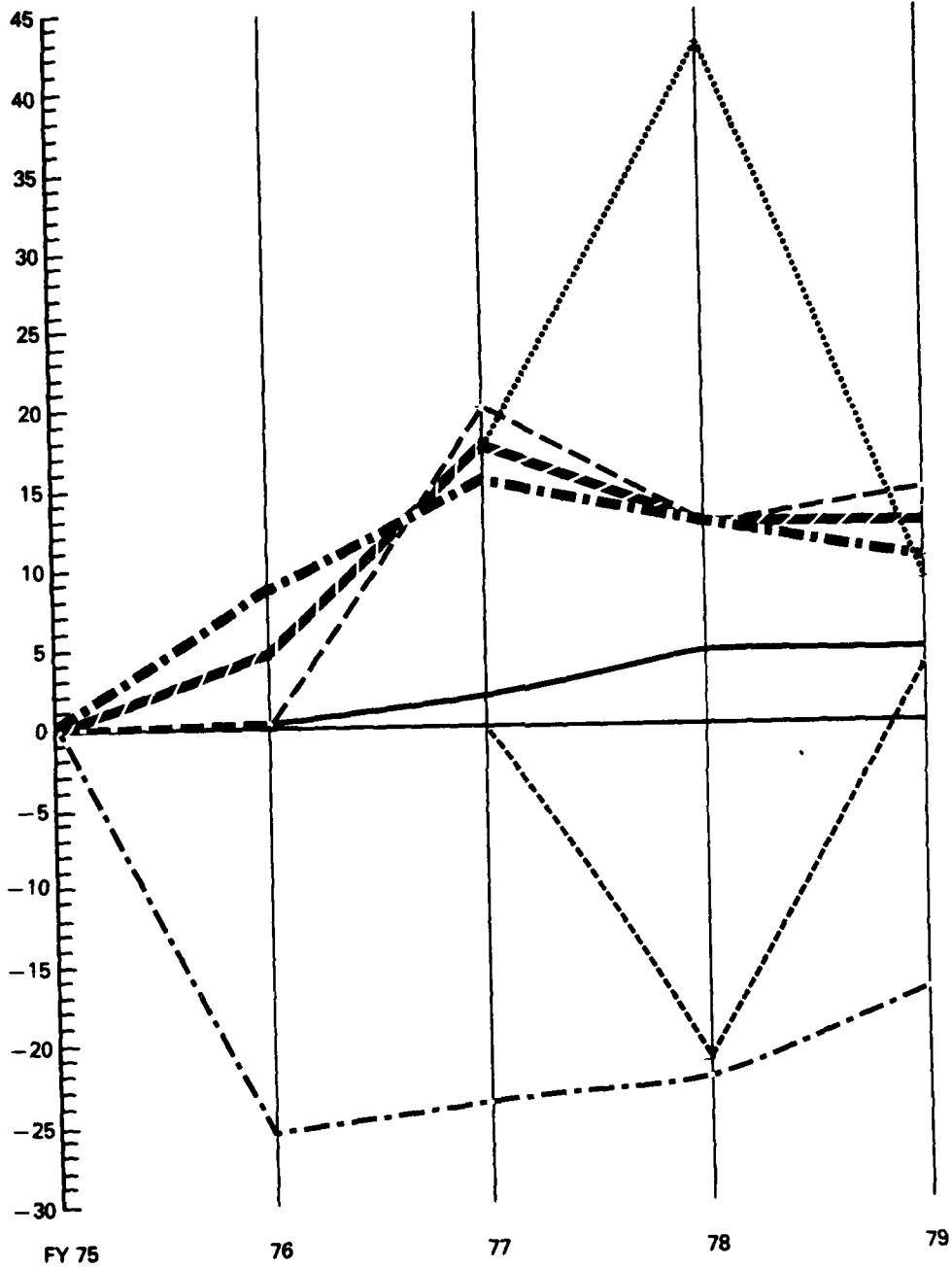
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- 6. **————** INSTALLED AIR CONDITIONING CAPACITY
- 7. **- - - -** EFFECTIVE POPULATION

FT LEWIS WA

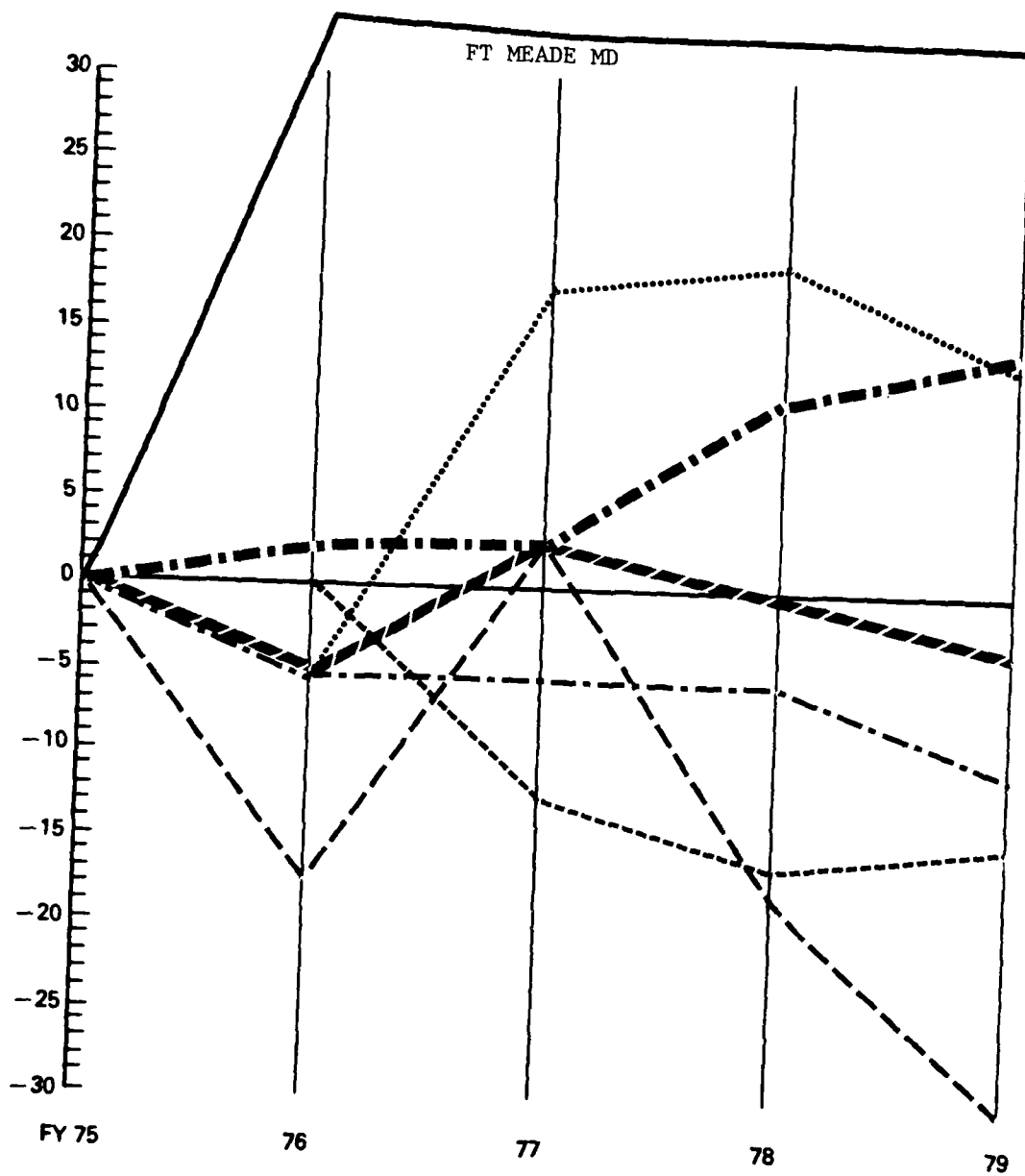


- 1. TOTAL ENERGY CONSUMPTION
- 2. THERMAL ENERGY CONSUMPTION
- 3. ELECTRIC ENERGY CONSUMPTION
- 4. ACTIVE REAL PROPERTY INVENTORY
- 5. BTU/GSF
- 6. INSTALLED AIR CONDITIONING CAPACITY
- 7. EFFECTIVE POPULATION

FT MCPHERSON GA

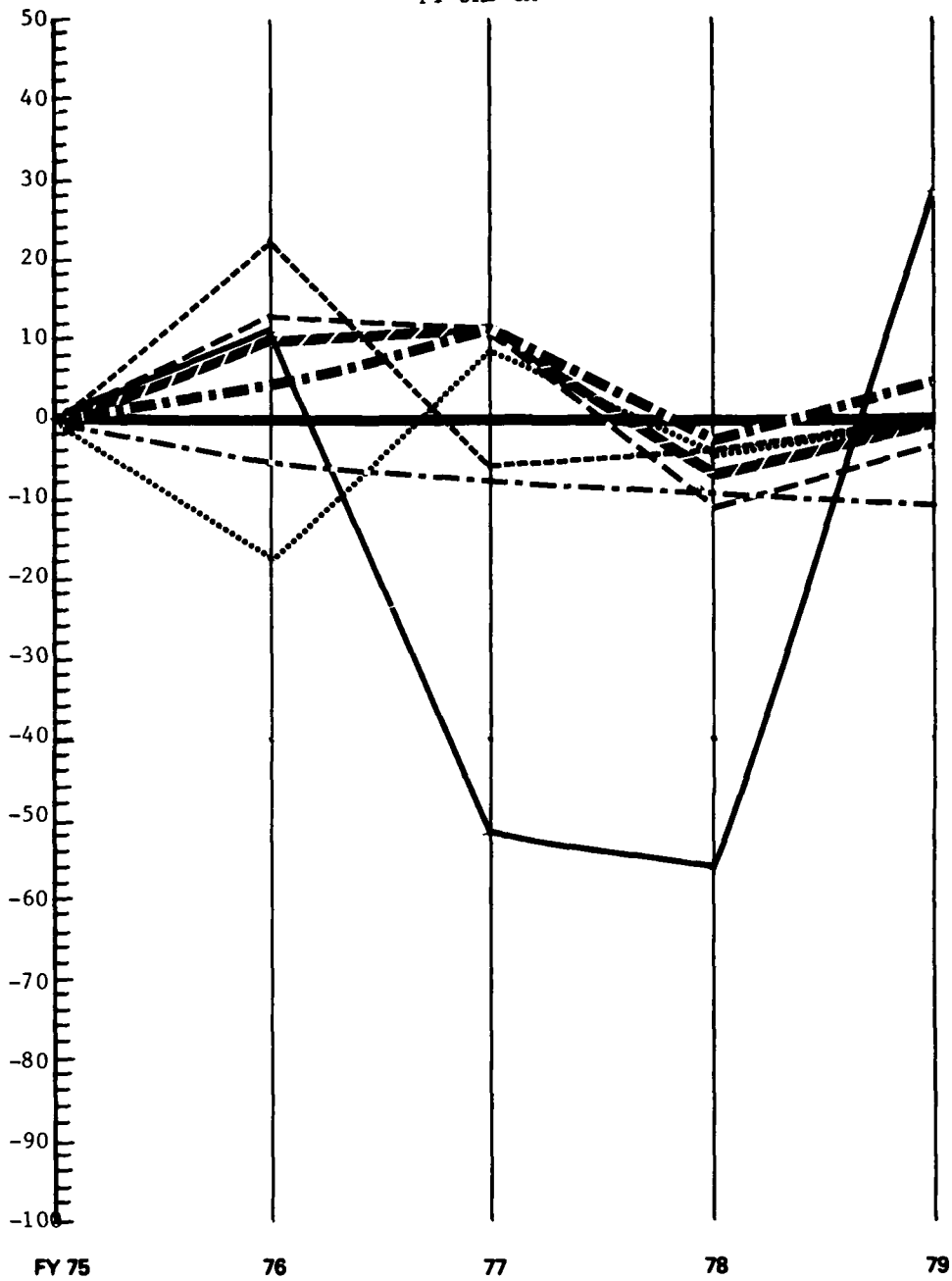


- 1. **////** TOTAL ENERGY CONSUMPTION
- 2. **- - -** THERMAL ENERGY CONSUMPTION
- 3. **.....** ELECTRIC ENERGY CONSUMPTION
- 4. **- . - . -** ACTIVE REAL PROPERTY INVENTORY
- 5. **.....** BTU/GSF
- 6. **————** INSTALLED AIR CONDITIONING CAPACITY
- 7. **- - -** EFFECTIVE POPULATION



- 1. TOTAL ENERGY CONSUMPTION
- 2. THERMAL ENERGY CONSUMPTION
- 3. ELECTRIC ENERGY CONSUMPTION
- 4. ACTIVE REAL PROPERTY INVENTORY
- 5. BTU/GSF
- 6. INSTALLED AIR CONDITIONING CAPACITY
- 7. EFFECTIVE POPULATION

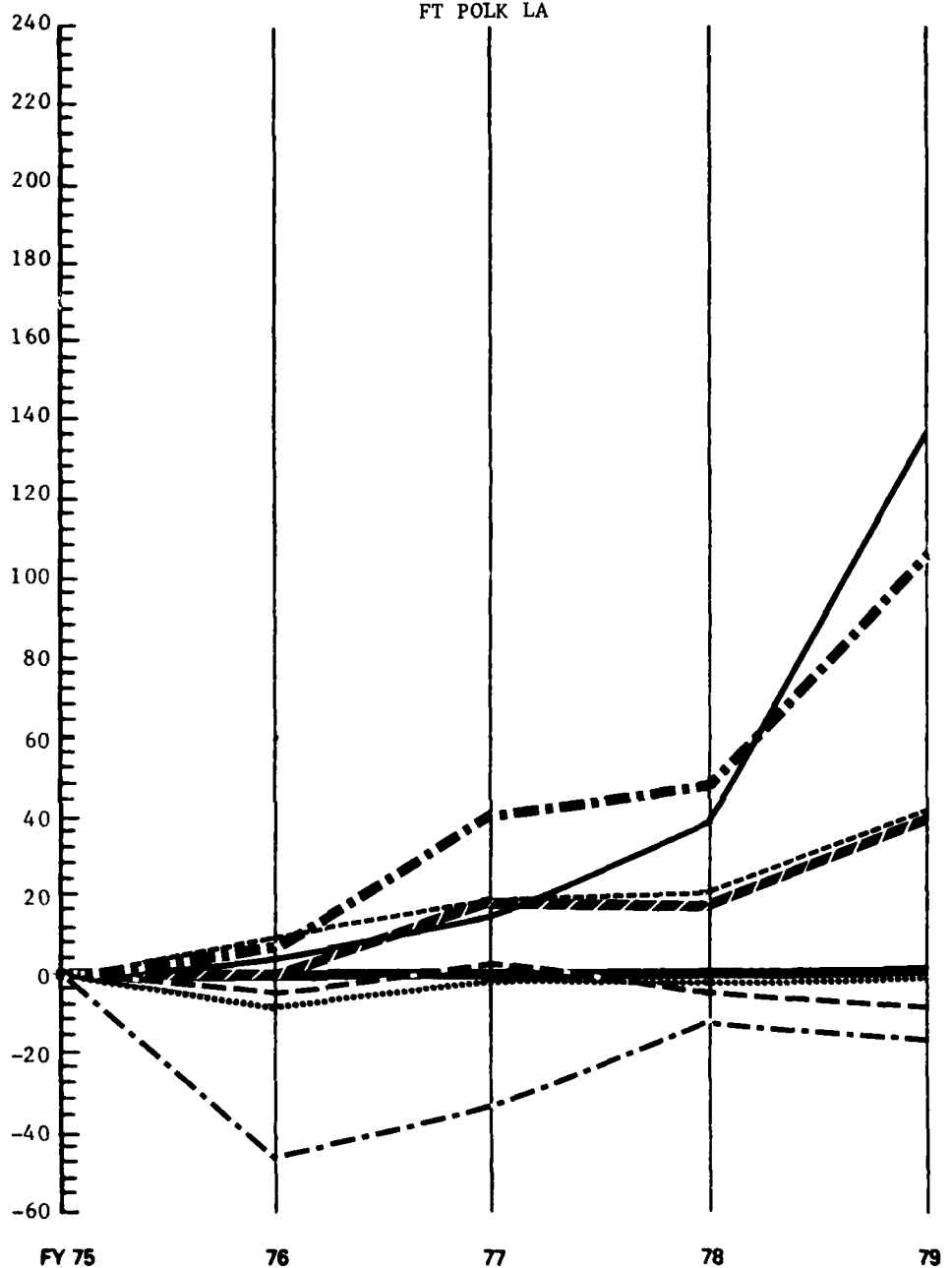
FT ORD CA



- 1. **////** TOTAL ENERGY CONSUMPTION
- 2. **---** THERMAL ENERGY CONSUMPTION
- 3. **■ ■ ■** ELECTRIC ENERGY CONSUMPTION
- 4. **-----** ACTIVE REAL PROPERTY INVENTORY

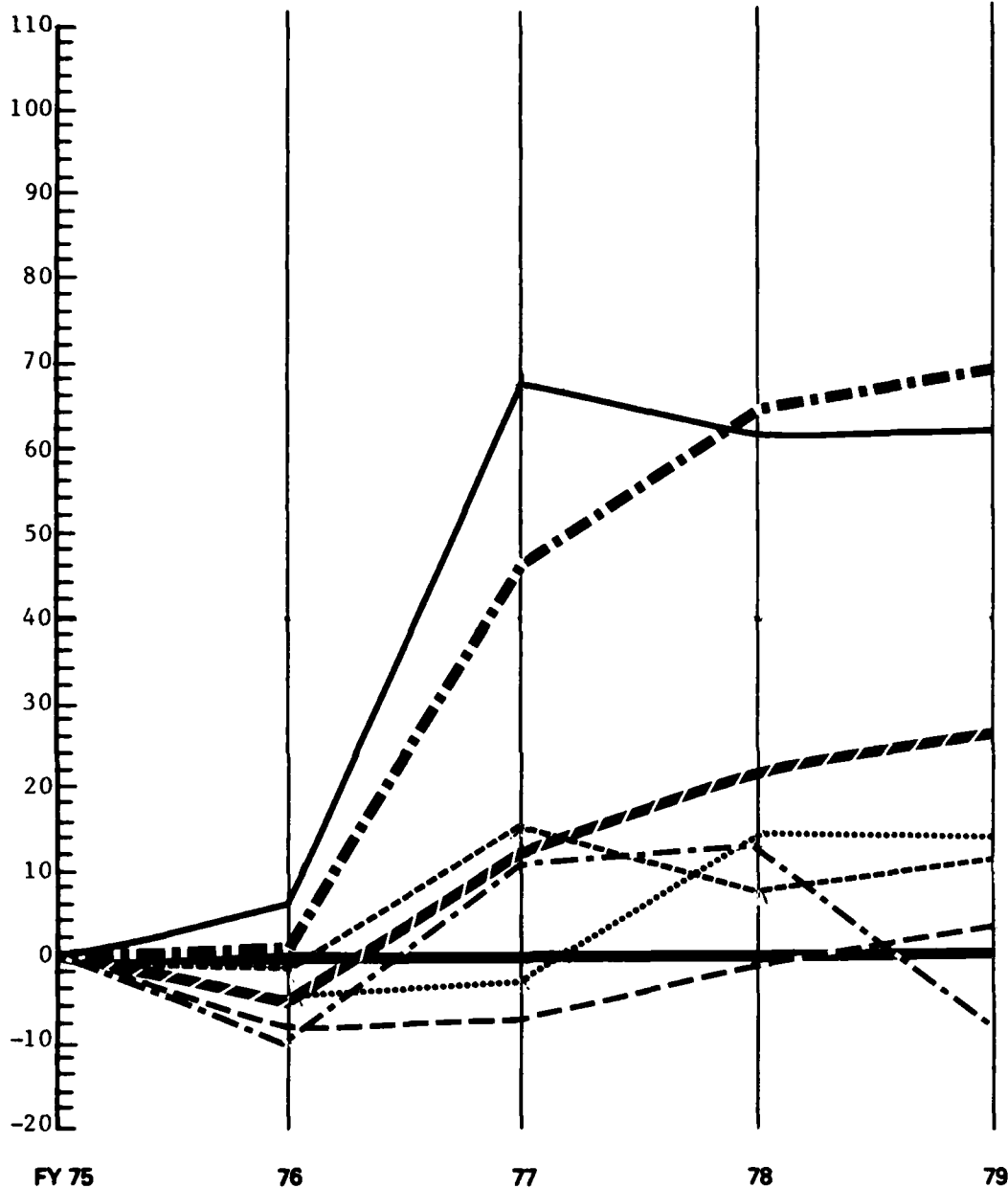
- 5. **.....** BTU/GSF
- 6. **————** INSTALLED AIR CONDITIONING CAPACITY
- 7. **- - -** EFFECTIVE POPULATION

FT POLK LA



- 1. // // TOTAL ENERGY CONSUMPTION
- 2. - - - THERMAL ENERGY CONSUMPTION
- 3. ■ ■ ■ ELECTRIC ENERGY CONSUMPTION
- 4. - - - - ACTIVE REAL PROPERTY INVENTORY
- 5. BTU/GSF
- 6. ———— INSTALLED AIR CONDITIONING CAPACITY
- 7. - - - - EFFECTIVE POPULATION

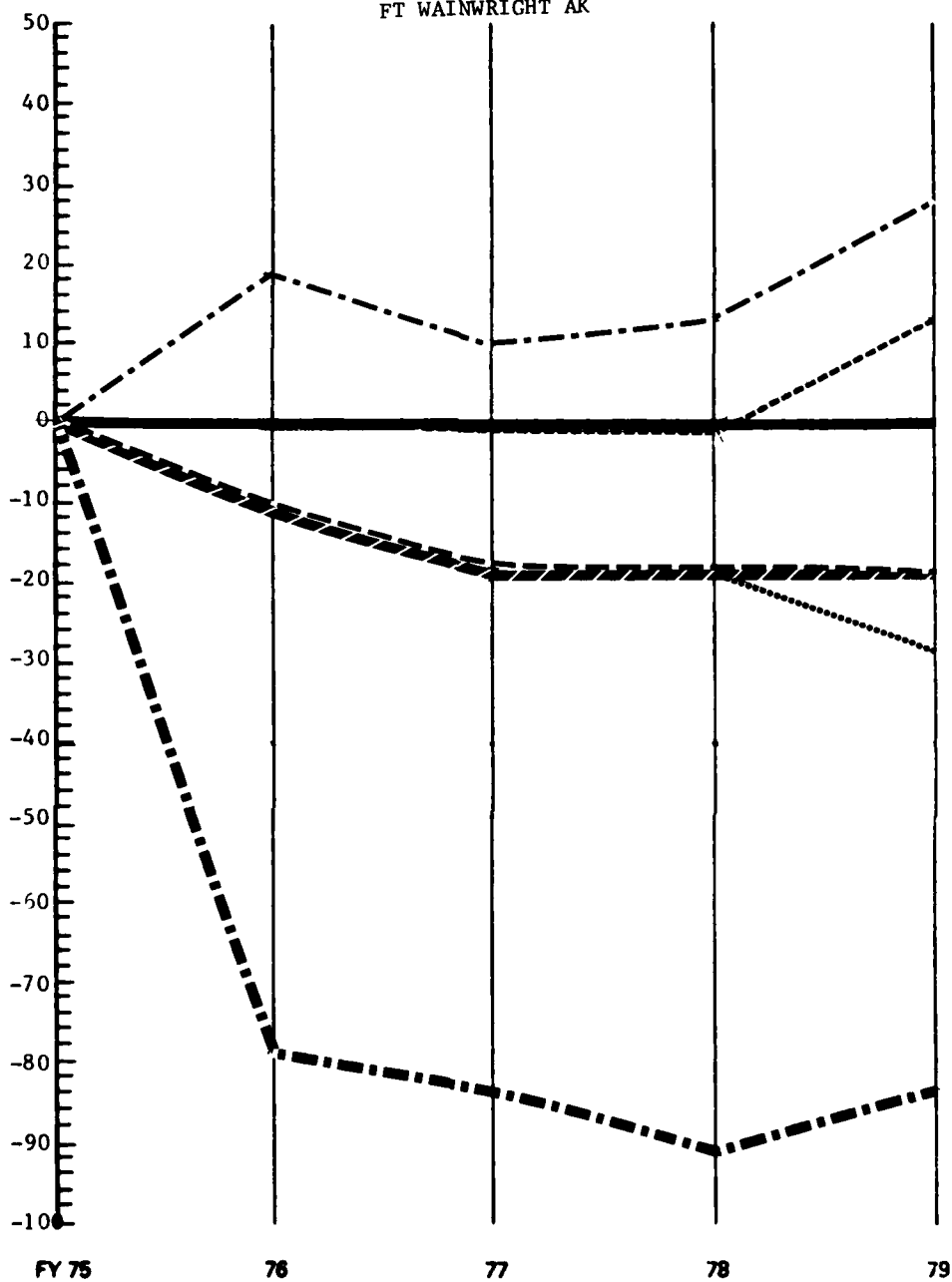
FT RILEY KS



- 1. TOTAL ENERGY CONSUMPTION
- 2. THERMAL ENERGY CONSUMPTION
- 3. ELECTRIC ENERGY CONSUMPTION
- 4. ACTIVE REAL PROPERTY INVENTORY

- 5. BTU/GSF
- 6. INSTALLED AIR CONDITIONING CAPACITY
- 7. EFFECTIVE POPULATION

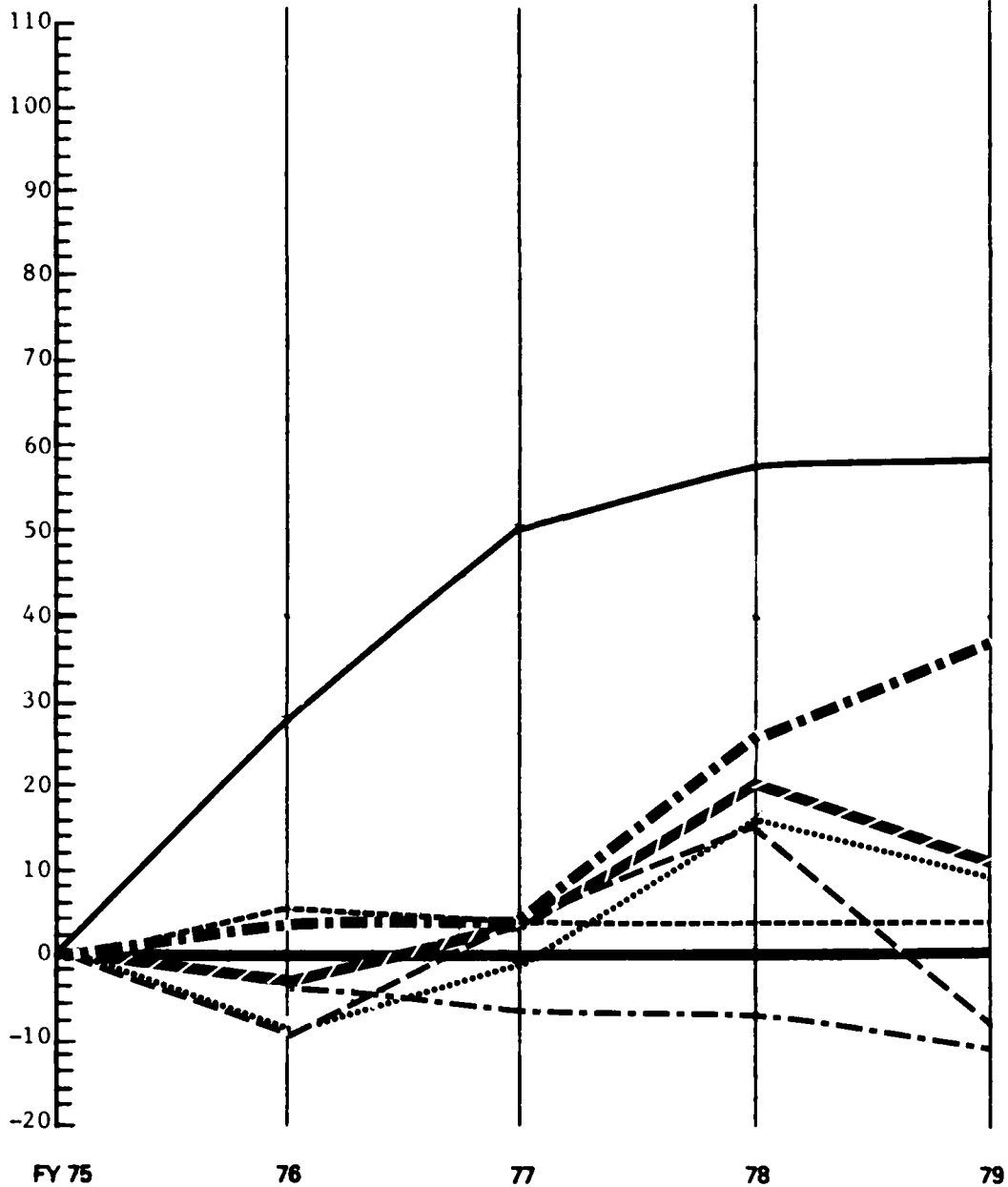
FT WAINWRIGHT AK



- 1. // // // TOTAL ENERGY CONSUMPTION
- 2. - - - THERMAL ENERGY CONSUMPTION
- 3. ■ ■ ■ ELECTRIC ENERGY CONSUMPTION
- 4. - - - - ACTIVE REAL PROPERTY INVENTORY

- 5. BTU/GSF
- 6. ——— INSTALLED AIR CONDITIONING CAPACITY (insignificant-not used)
- 7. - - - EFFECTIVE POPULATION

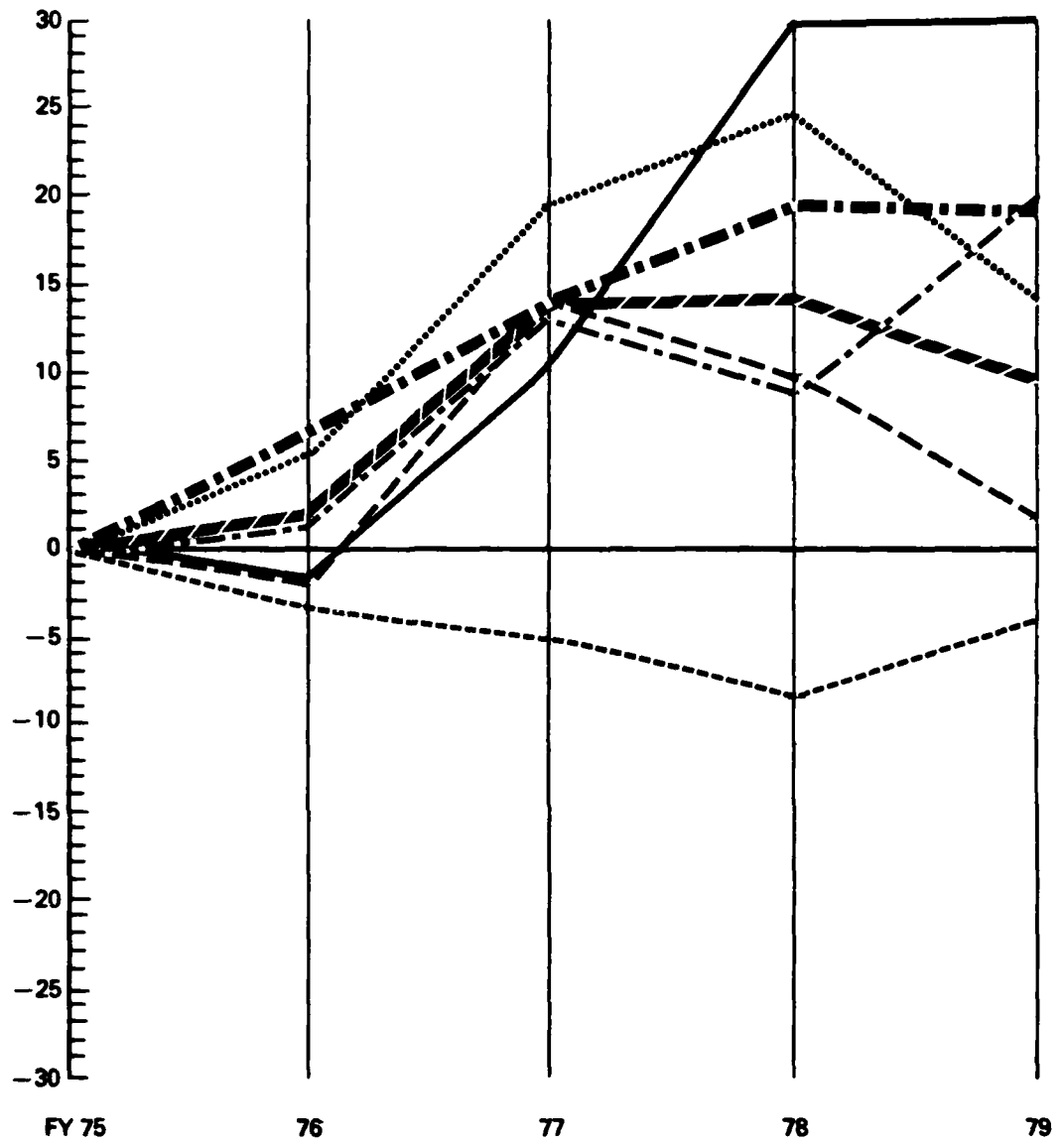
FT BELVOIR VA



- 1. **////** TOTAL ENERGY CONSUMPTION
- 2. **- - -** THERMAL ENERGY CONSUMPTION
- 3. **■ ■ ■** ELECTRIC ENERGY CONSUMPTION
- 4. **- - - -** ACTIVE REAL PROPERTY INVENTORY

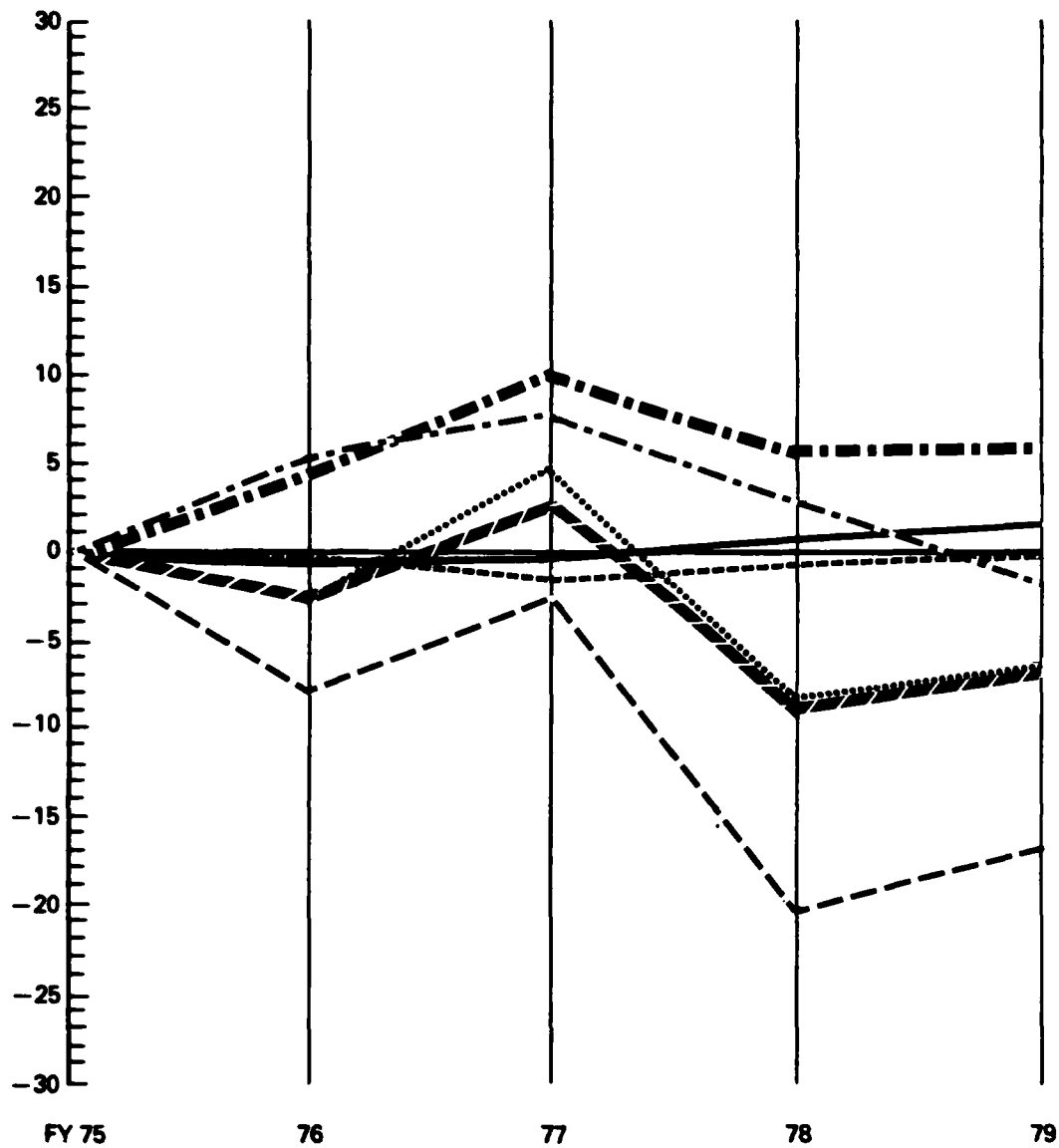
- 5. **.....** BTU/GSF
- 6. **————** INSTALLED AIR CONDITIONING CAPACITY
- 7. **- - -** EFFECTIVE POPULATION

FT BENNING GA



- 1. **////** TOTAL ENERGY CONSUMPTION
- 2. **---** THERMAL ENERGY CONSUMPTION
- 3. **■ ■ ■** ELECTRIC ENERGY CONSUMPTION
- 4. **-----** ACTIVE REAL PROPERTY INVENTORY
- 5. **.....** STU/GSF
- 6. **————** INSTALLED AIR CONDITIONING CAPACITY
- 7. **- - -** EFFECTIVE POPULATION

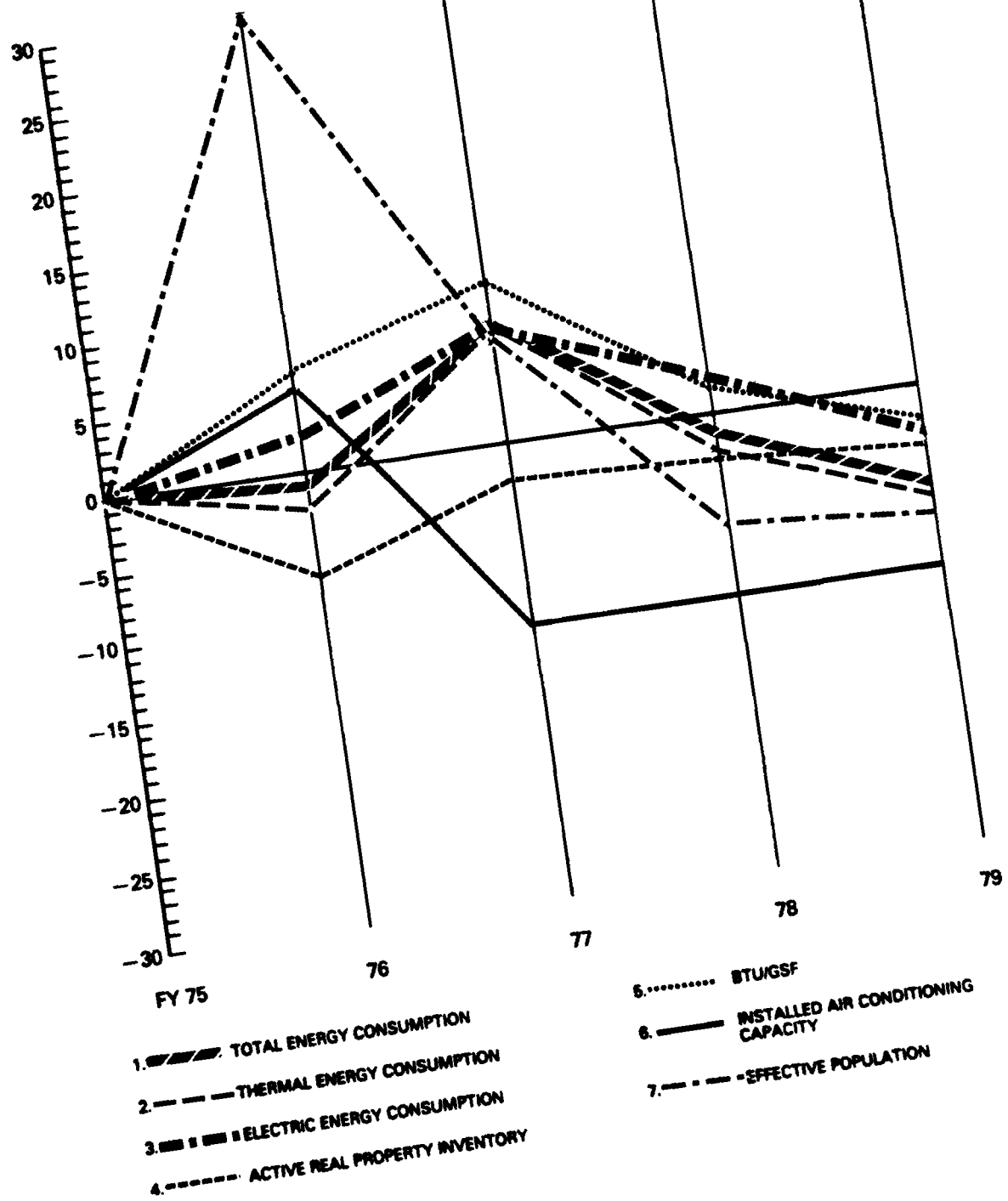
FT BLISS TX



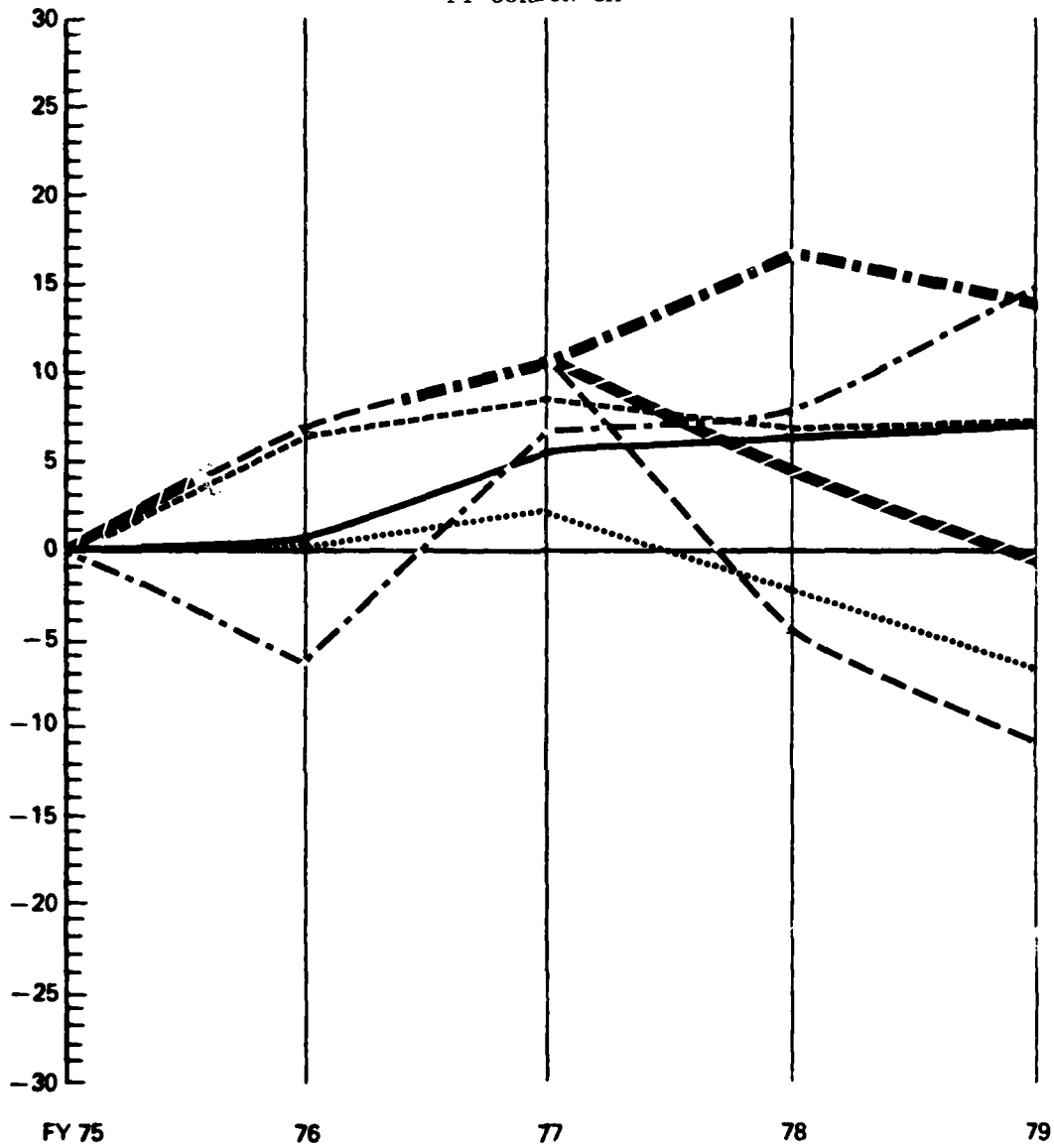
- 1. TOTAL ENERGY CONSUMPTION
- 2. THERMAL ENERGY CONSUMPTION
- 3. ELECTRIC ENERGY CONSUMPTION
- 4. ACTIVE REAL PROPERTY INVENTORY

- 5. BTU/GSF
- 6. INSTALLED AIR CONDITIONING CAPACITY
- 7. EFFECTIVE POPULATION

FT DIX NJ



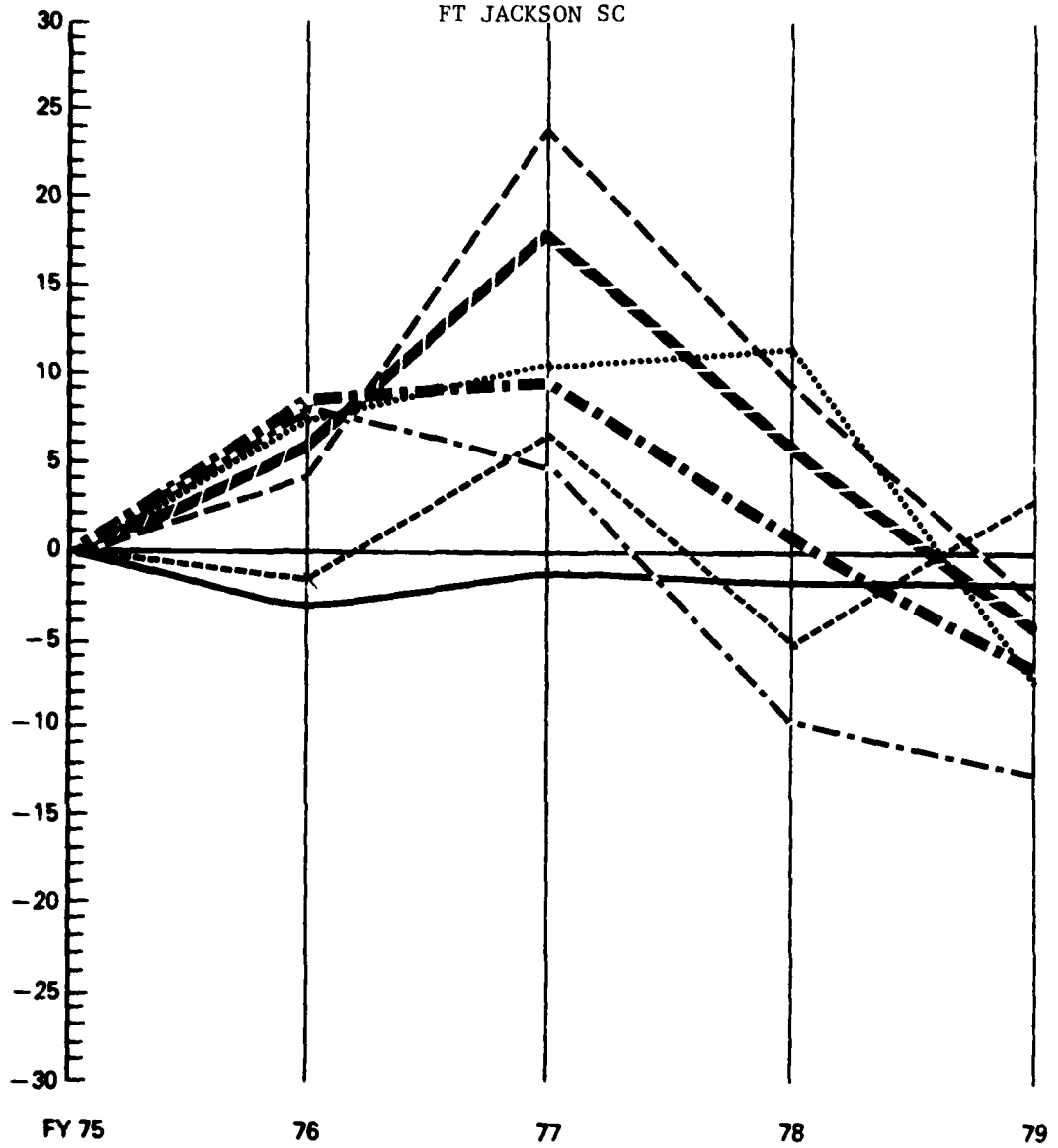
FT GORDON GA



- 1. // // // TOTAL ENERGY CONSUMPTION
- 2. - - - THERMAL ENERGY CONSUMPTION
- 3. ■ ■ ■ ELECTRIC ENERGY CONSUMPTION
- 4. - - - - ACTIVE REAL PROPERTY INVENTORY

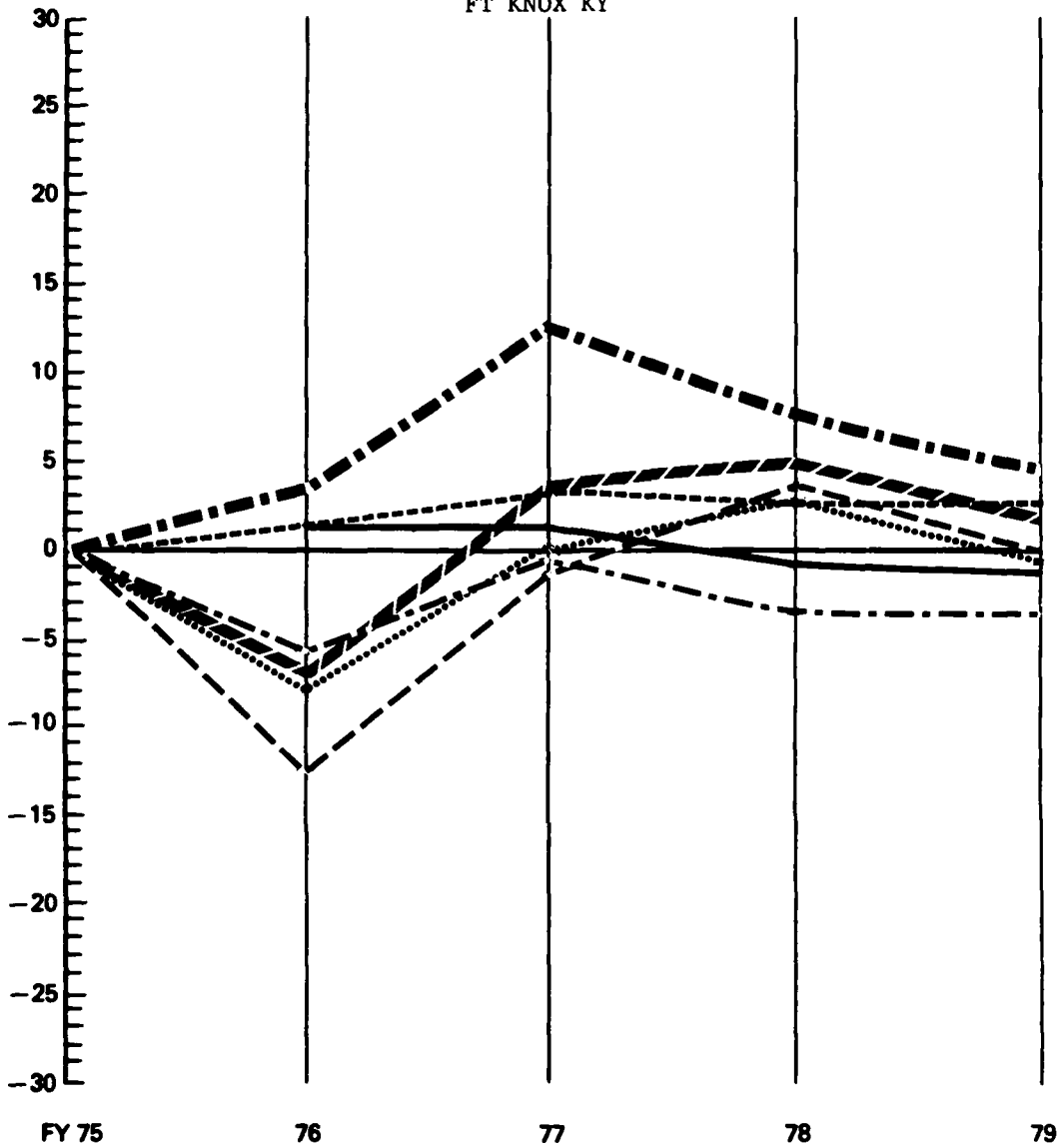
- 5. BTU/GSF
- 6. ——— INSTALLED AIR CONDITIONING CAPACITY
- 7. - - - EFFECTIVE POPULATION

FT JACKSON SC



- 1. / / / / TOTAL ENERGY CONSUMPTION
- 2. - - - THERMAL ENERGY CONSUMPTION
- 3. ■ ■ ■ ELECTRIC ENERGY CONSUMPTION
- 4. - - - - ACTIVE REAL PROPERTY INVENTORY
- 5. BTU/GSF
- 6. ——— INSTALLED AIR CONDITIONING CAPACITY
- 7. - - - - EFFECTIVE POPULATION

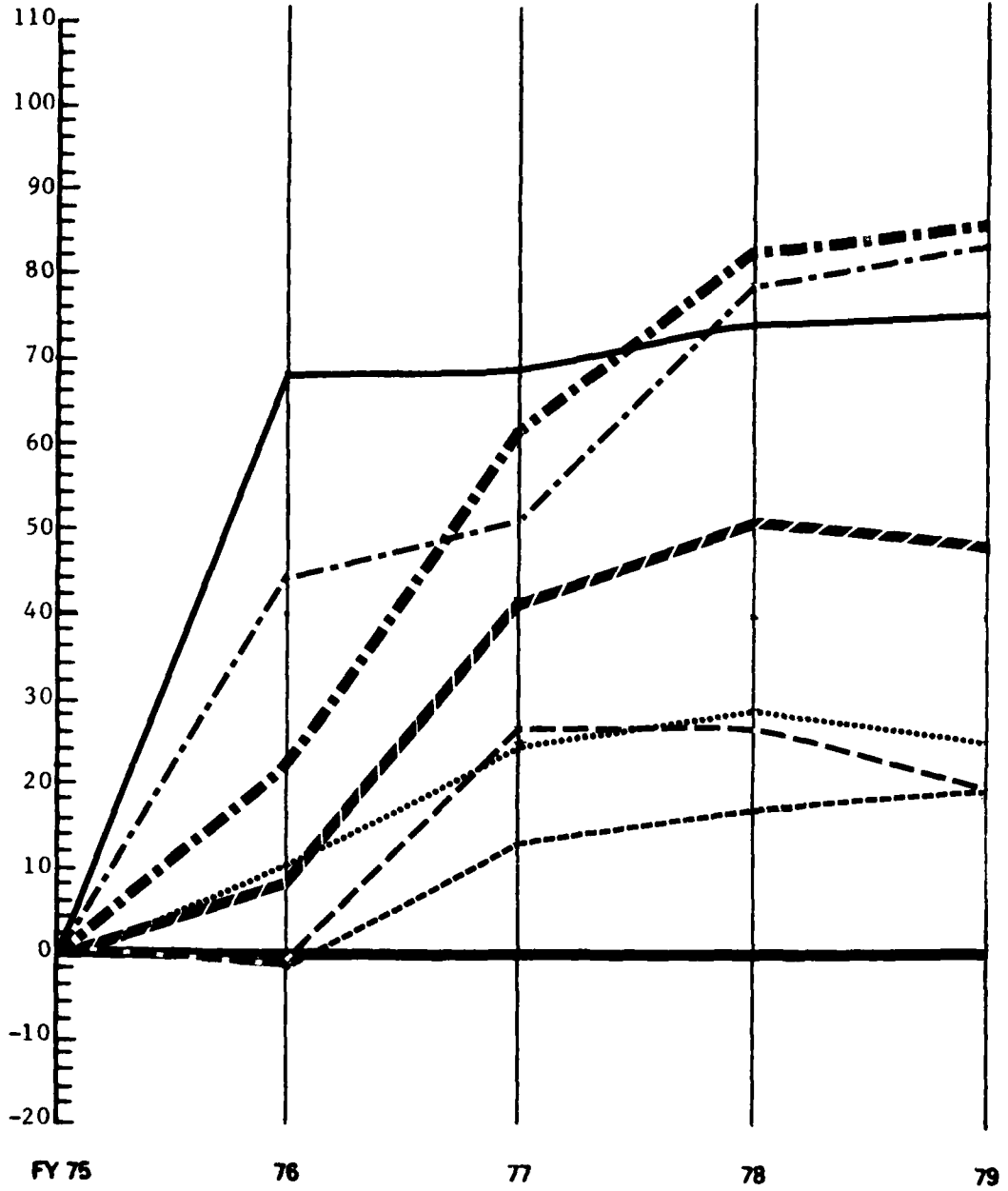
FT KNOX KY



- 1. // // // TOTAL ENERGY CONSUMPTION
- 2. - - - THERMAL ENERGY CONSUMPTION
- 3. ■ ■ ■ ELECTRIC ENERGY CONSUMPTION
- 4. - - - - ACTIVE REAL PROPERTY INVENTORY

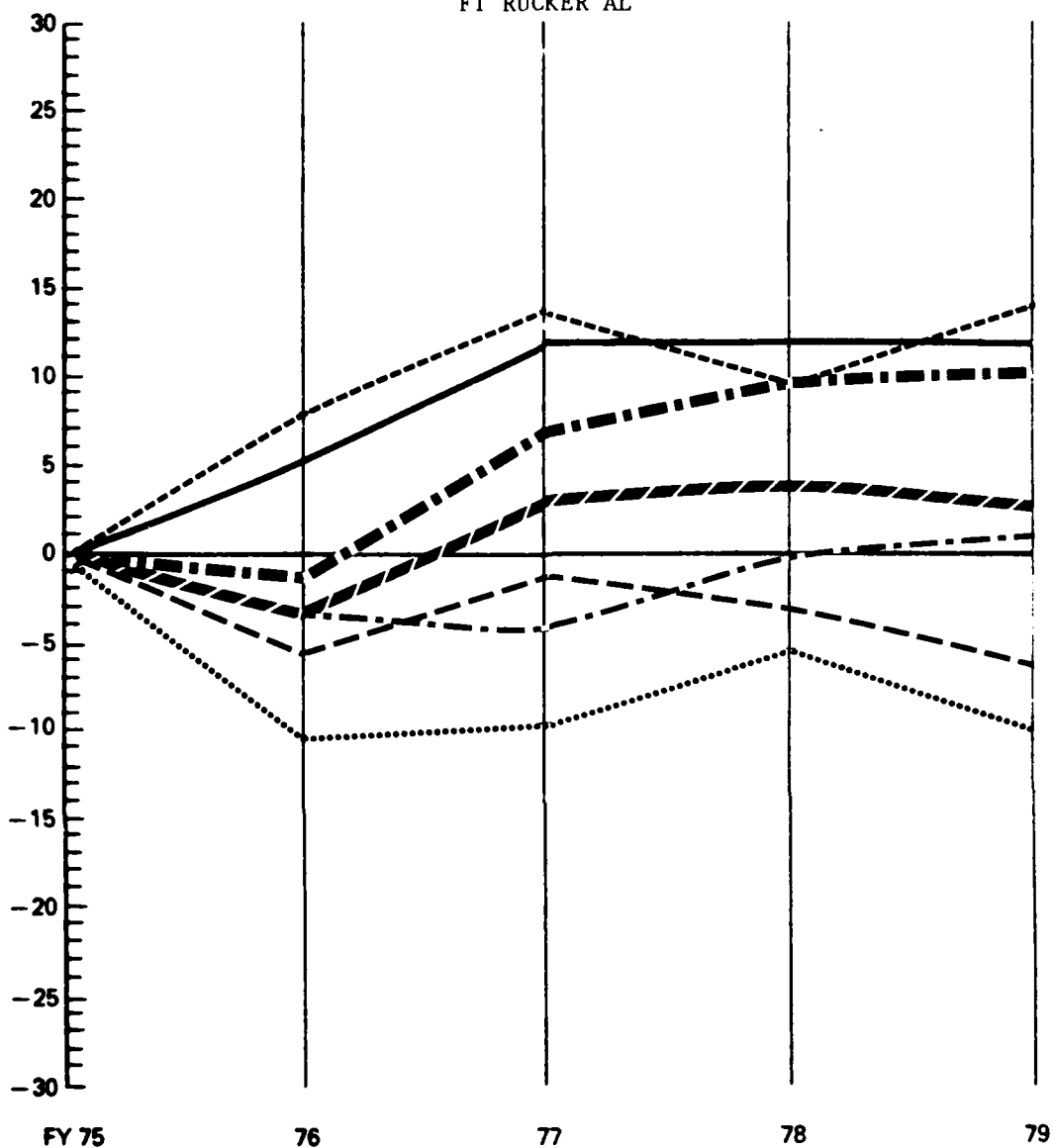
- 5. /..... BTU/GSF
- 6. ——— INSTALLED AIR CONDITIONING CAPACITY
- 7. - - - - EFFECTIVE POPULATION

FT MCCLELLAN AL



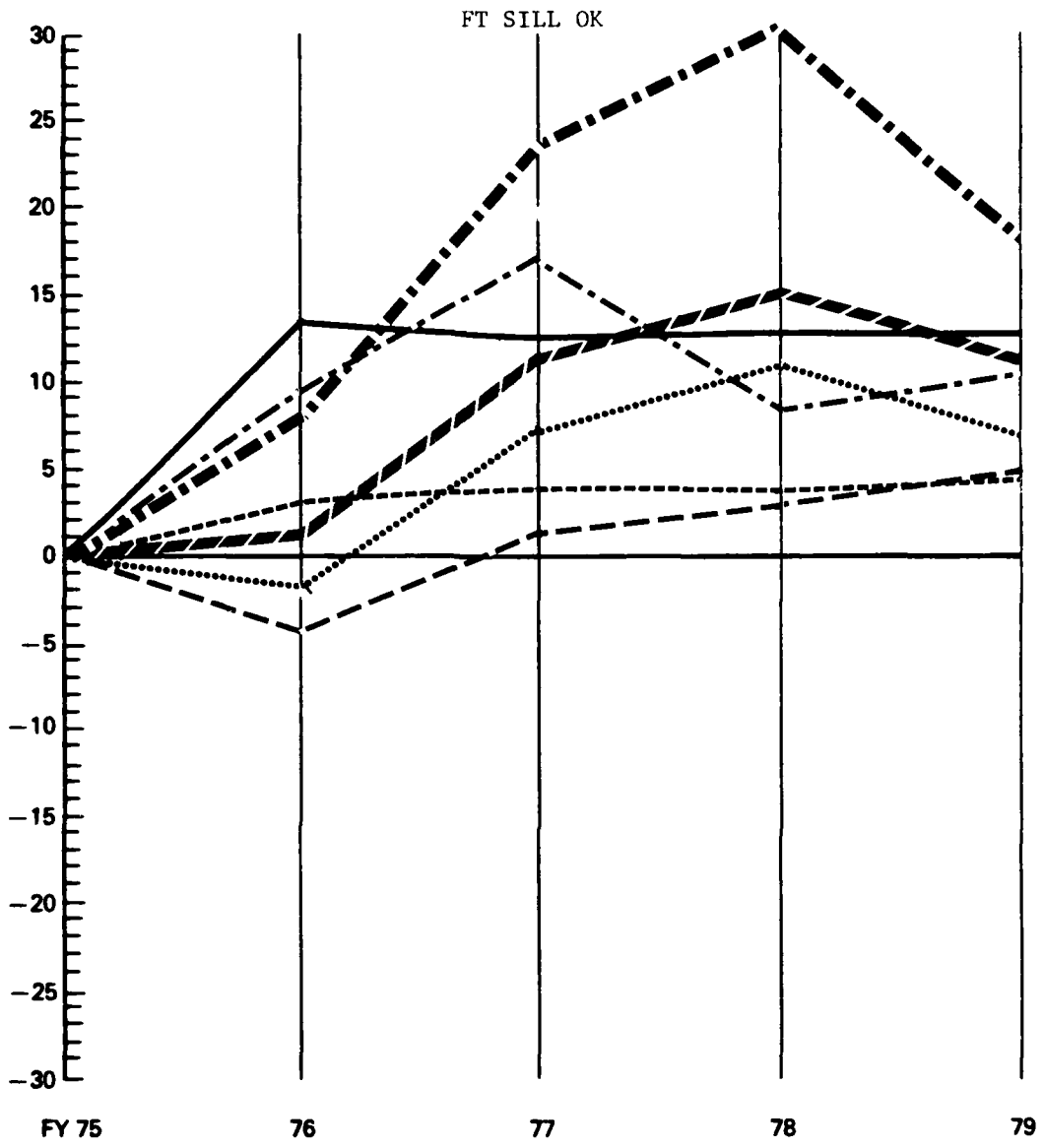
- 1. TOTAL ENERGY CONSUMPTION
- 2. THERMAL ENERGY CONSUMPTION
- 3. ELECTRIC ENERGY CONSUMPTION
- 4. ACTIVE REAL PROPERTY INVENTORY
- 5. BTU/GSF
- 6. INSTALLED AIR CONDITIONING CAPACITY
- 7. EFFECTIVE POPULATION

FT RUCKER AL



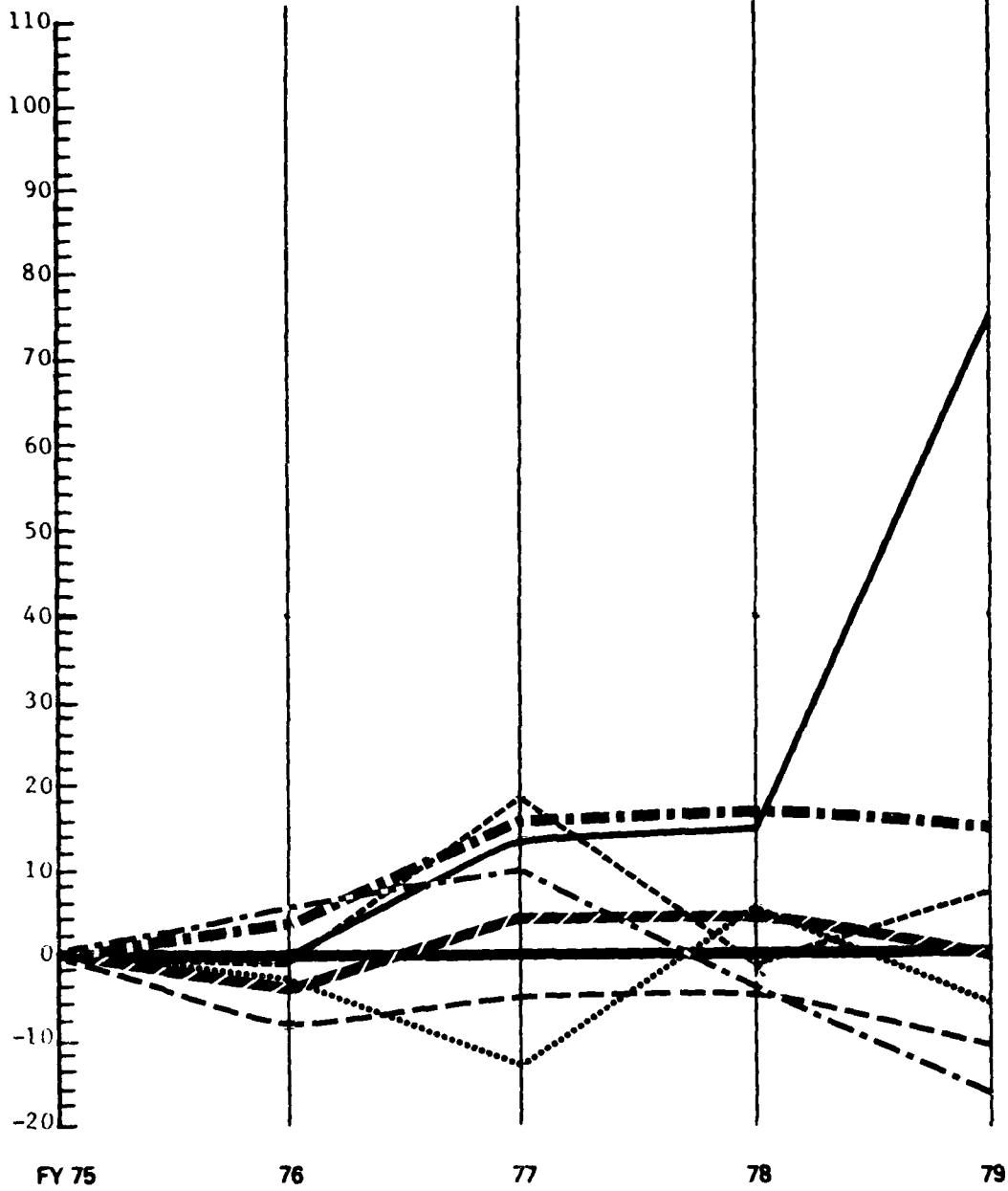
- 1. // // // TOTAL ENERGY CONSUMPTION
- 2. - - - THERMAL ENERGY CONSUMPTION
- 3. ■ ■ ■ ELECTRIC ENERGY CONSUMPTION
- 4. - - - - ACTIVE REAL PROPERTY INVENTORY

- 5. BTU/GSF
- 6. ——— INSTALLED AIR CONDITIONING CAPACITY
- 7. - - - - EFFECTIVE POPULATION



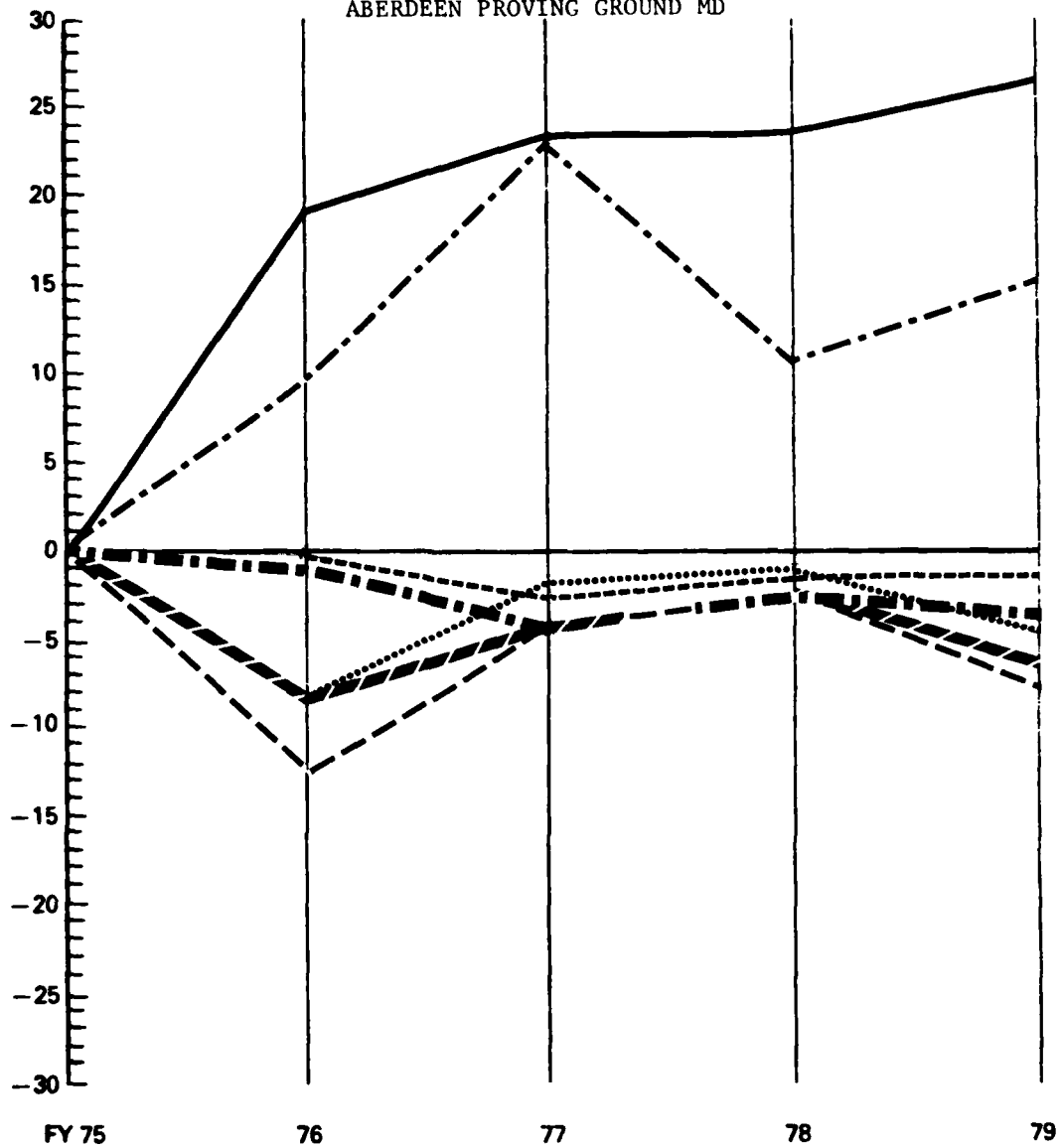
- 1. TOTAL ENERGY CONSUMPTION
- 2. THERMAL ENERGY CONSUMPTION
- 3. ELECTRIC ENERGY CONSUMPTION
- 4. ACTIVE REAL PROPERTY INVENTORY
- 5. BTU/GSF
- 6. INSTALLED AIR CONDITIONING CAPACITY
- 7. EFFECTIVE POPULATION

FT LEONARD WOOD MO



- 1. **////** TOTAL ENERGY CONSUMPTION
- 2. **- - -** THERMAL ENERGY CONSUMPTION
- 3. **■ ■ ■** ELECTRIC ENERGY CONSUMPTION
- 4. **-----** ACTIVE REAL PROPERTY INVENTORY
- 5. **.....** BTU/GSF
- 6. **————** INSTALLED AIR CONDITIONING CAPACITY
- 7. **- - -** EFFECTIVE POPULATION

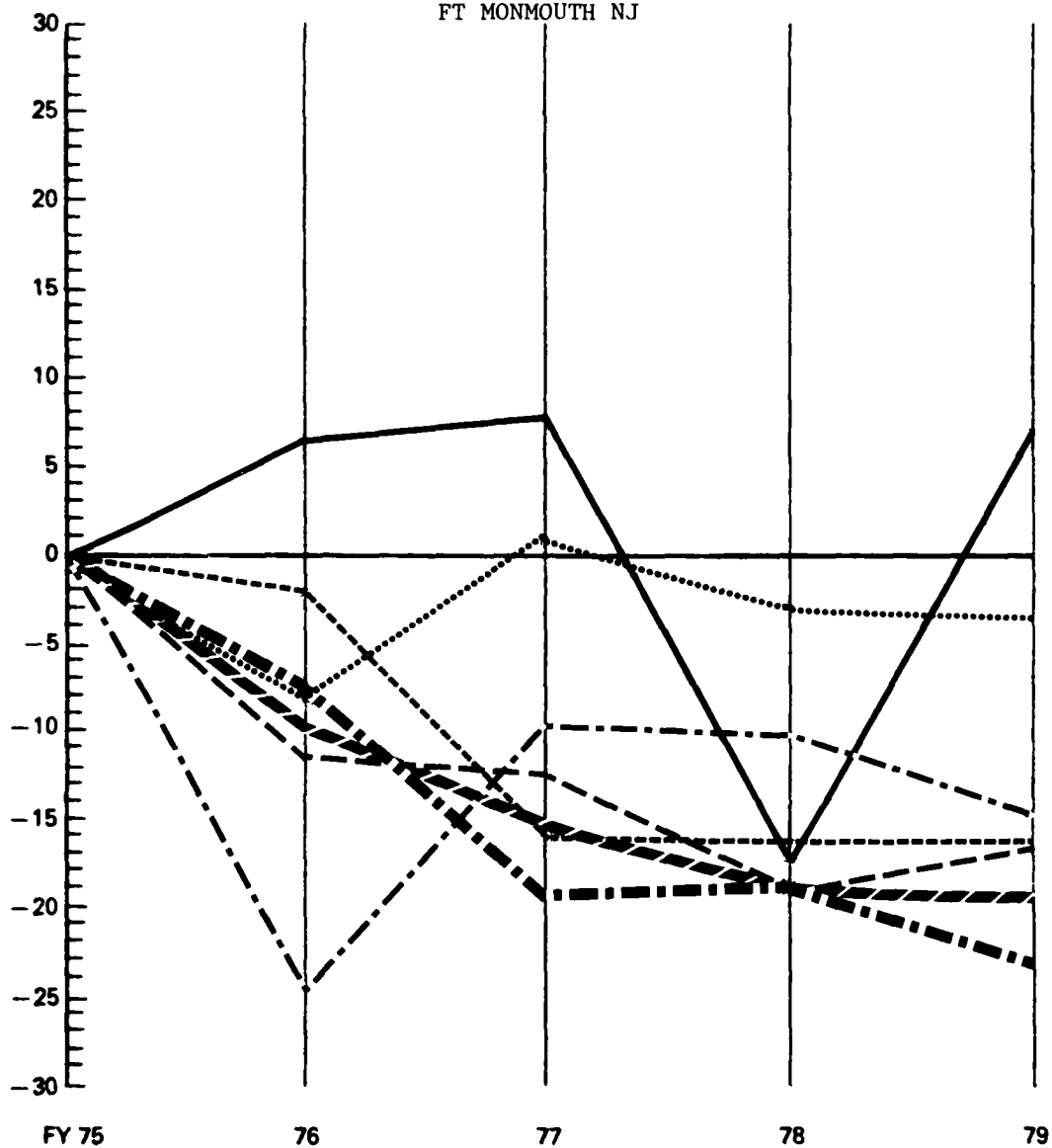
ABERDEEN PROVING GROUND MD



- 1. // // // TOTAL ENERGY CONSUMPTION
- 2. - - - THERMAL ENERGY CONSUMPTION
- 3. ■ ■ ■ ELECTRIC ENERGY CONSUMPTION
- 4. - - - - - ACTIVE REAL PROPERTY INVENTORY

- 5. BTU/GSF
- 6. ——— INSTALLED AIR CONDITIONING CAPACITY
- 7. - - - - - EFFECTIVE POPULATION

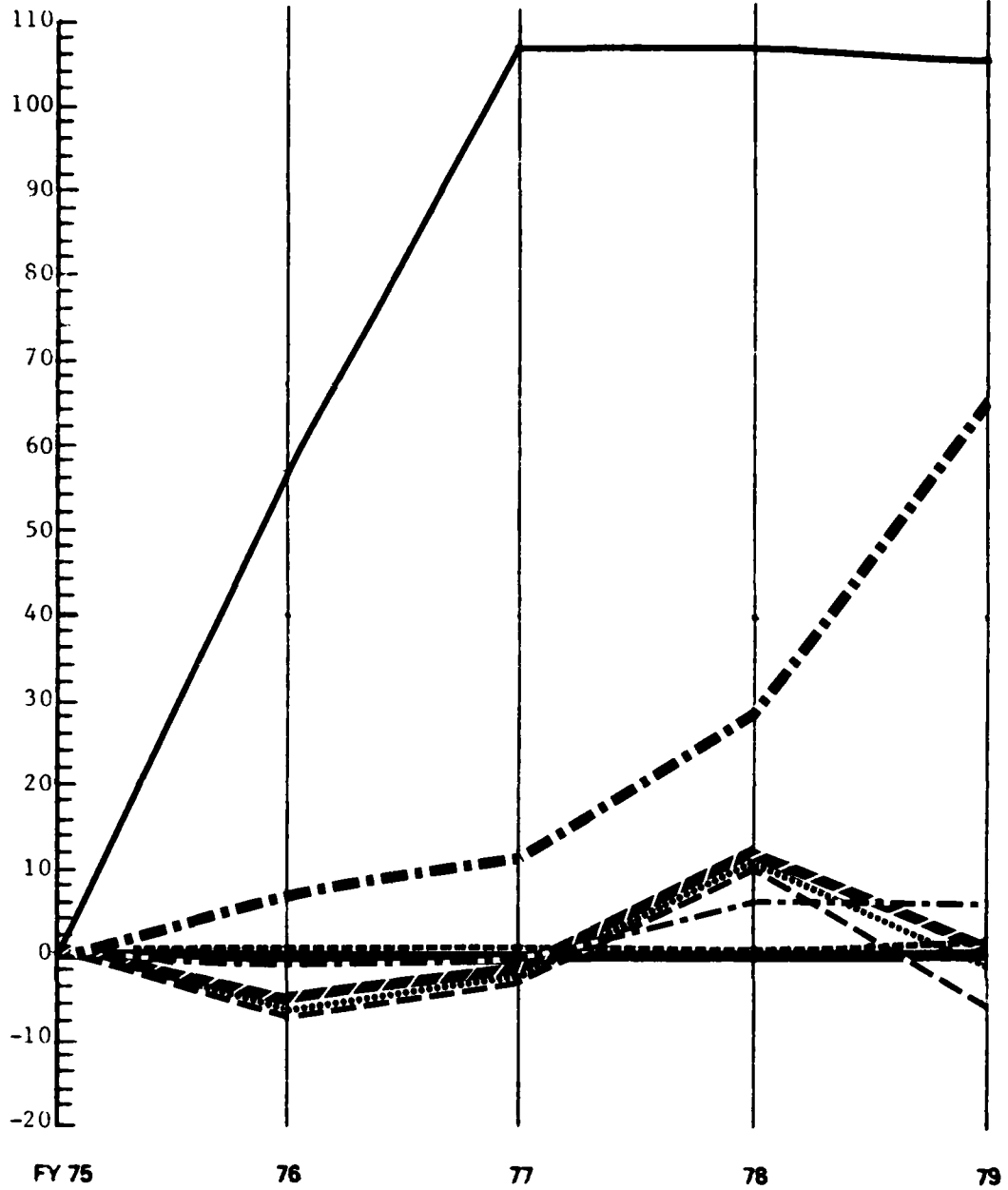
FT MONMOUTH NJ



- 1. // // // TOTAL ENERGY CONSUMPTION
- 2. - - - THERMAL ENERGY CONSUMPTION
- 3. ■ ■ ■ ELECTRIC ENERGY CONSUMPTION
- 4. - - - - ACTIVE REAL PROPERTY INVENTORY

- 5. BTU/GSF
- 6. ———— INSTALLED AIR CONDITIONING CAPACITY
- 7. - - - - EFFECTIVE POPULATION

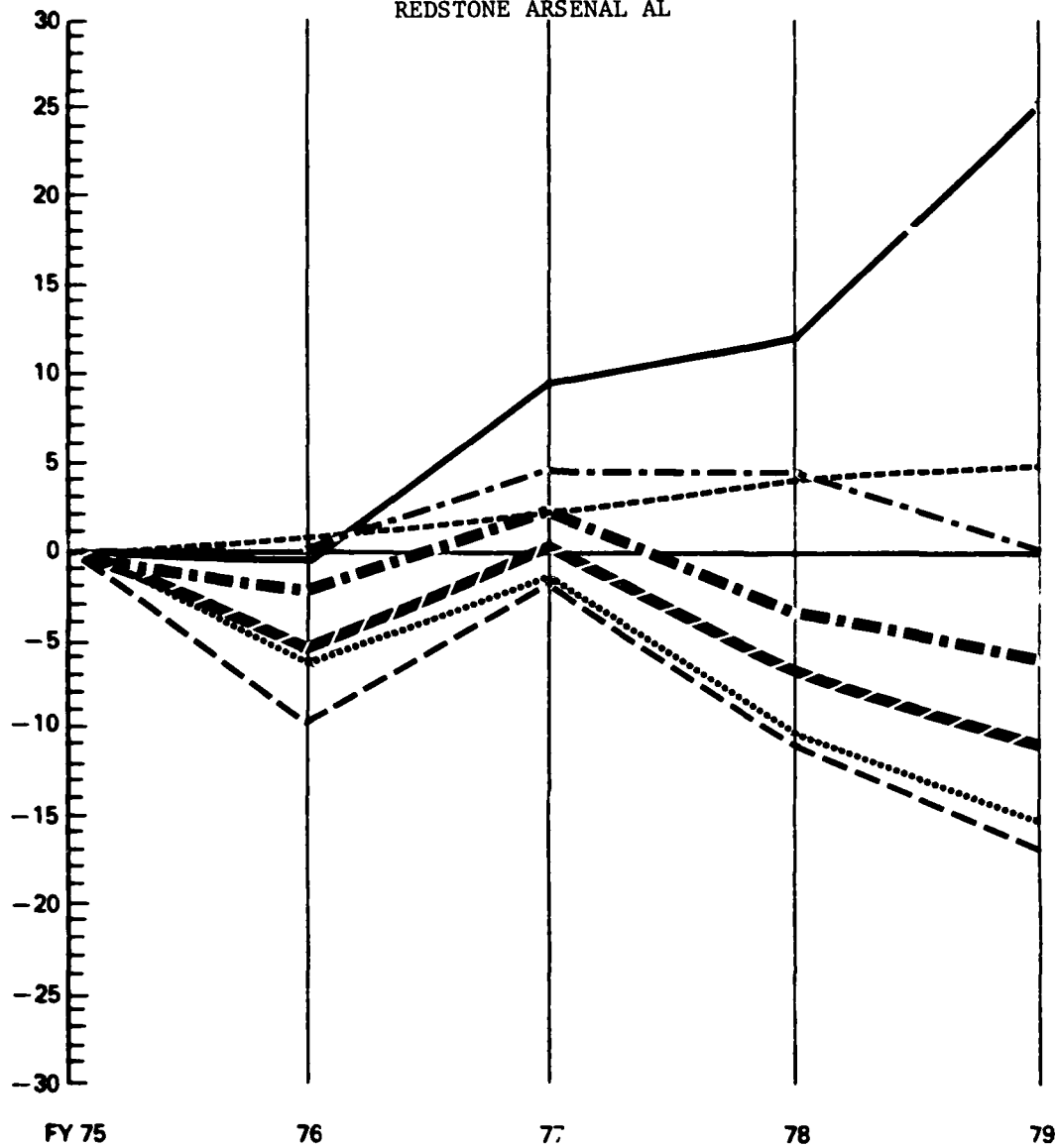
PICATINNY ARSENAL NJ



- 1. TOTAL ENERGY CONSUMPTION
- 2. THERMAL ENERGY CONSUMPTION
- 3. ELECTRIC ENERGY CONSUMPTION
- 4. ACTIVE REAL PROPERTY INVENTORY

- 5. BTU/GSF
- 6. INSTALLED AIR CONDITIONING CAPACITY
- 7. EFFECTIVE POPULATION

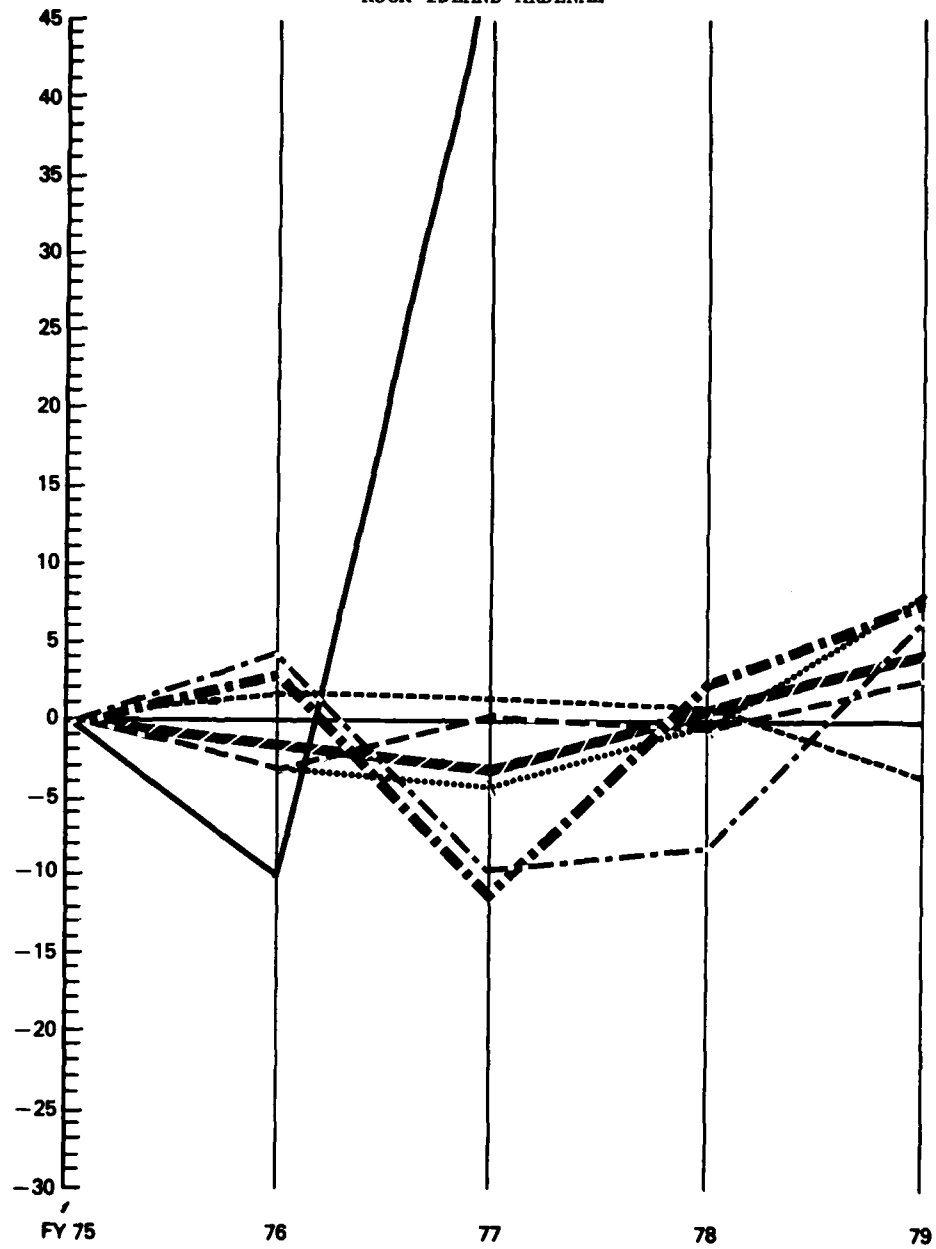
REDSTONE ARSENAL AL



- 1. // // // TOTAL ENERGY CONSUMPTION
- 2. - - - THERMAL ENERGY CONSUMPTION
- 3. ■ ■ ■ ELECTRIC ENERGY CONSUMPTION
- 4. - - - - ACTIVE REAL PROPERTY INVENTORY

- 5. BTU/GSF
- 6. ——— INSTALLED AIR CONDITIONING CAPACITY
- 7. - - - - EFFECTIVE POPULATION

ROCK ISLAND ARSENAL



- 1. **////** TOTAL ENERGY CONSUMPTION
- 2. **---** THERMAL ENERGY CONSUMPTION
- 3. **■ ■ ■** ELECTRIC ENERGY CONSUMPTION
- 4. **-----** ACTIVE REAL PROPERTY INVENTORY
- 5. **.....** BTU/GSF
- 6. **————** INSTALLED AIR CONDITIONING CAPACITY
- 7. **- - - -** EFFECTIVE POPULATION

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Fort Benning
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Facilities Engineer
Fort Bliss
Fort Bliss, TX 79916

Facilities Engineer
Carlisle Barracks
Carlisle Barracks, PA 17013

Facilities Engineer
Fort Chaffee
Fort Chaffee, AR 72902

Facilities Engineer
Fort Dix
Fort Dix, NJ 08640

Facilities Engineer
Fort Eustis
Fort Eustis, VA 23604

DIST 3

Facilities Engineer
Fort Gordon
Fort Gordon, GA 30905

Facilities Engineer
Fort Hamilton
Fort Hamilton, NY 11252

Facilities Engineer
Fort A P Hill
Bowling Green, VA 22427

Facilities Engineer
Fort Jackson
Fort Jackson, SC 29207

Facilities Engineer
Fort Knox
Fort Knox, KY 40121

Facilities Engineer
Fort Lee
Fort Lee, VA 23801

Facilities Engineer
Fort McClellan
Fort McClellan, AL 36201

Facilities Engineer
Fort Monroe
Fort Monroe, VA 23651

Facilities Engineer
Presidio of Monterey
Presidio of Monterey, CA 93940

Facilities Engineer
Fort Pickett
Blackstone, VA 23824

Facilities Engineer
Fort Rucker
Fort Rucker, AL 36362

Facilities Engineer
Fort Sill
Fort Sill, OK 73503

Facilities Engineer
Fort Story
Fort Story, VA 23459

Facilities Engineer
Kansas Army Ammunition Plant
Independence, MO 64056

Facilities Engineer
Lone Star Army Ammunition Plant
Texarkana, TX 75501

Facilities Engineer
Picatinny Arsenal
Dover, NJ 07801

Facilities Engineer
Louisiana Army Ammunition Plant
Fort MacArthur, CA 90731

Facilities Engineer
Milan Army Ammunition Plant
Warren, MI 48089

Facilities Engineer
Pine Bluff Arsenal
Pine Bluff, AR 71601

Facilities Engineer
Radford Army Ammunition Plant
Radford, VA 24141

Facilities Engineer
Rock Island Arsenal
Rock Island, IL 61201

Facilities Engineer
Rocky Mountain Arsenal
Denver, CO 80340

Facilities Engineer
Scranton Army Ammunition Plant
156 Cedar Avenue
Scranton, PA 18503

Facilities Engineer
Tobyhanna Army Depot
Tobyhanna, PA 18456

Facilities Engineer
Tooele Army Depot
Tooele, UT 84074

Facilities Engineer
Arlington Hall Station
400 Arlington Blvd
Arlington, VA 22212

Facilities Engineer
Cameron Station, Bldg 17
5010 Duke Street
Alexandria, VA 22314

Facilities Engineer
Sunny Point Military Ocean Terminal
Southport, NC 28461

Facilities Engineer
US Military Academy
West Point Reservation
West Point, NY 10996

Facilities Engineer
Fort Ritchie
Fort Ritchie, MD 21719

Facilities Engineer
Army Materials & Mechanics
Research Center
Watertown, MA 02172

Facilities Engineer
Ballistics Missile Advanced
Technology Center
P.O. Box 1500
Huntsville, AL 35807

Facilities Engineer
Fort Wainwright
172d Infantry Brigade
Fort Wainwright, AK 99703

Facilities Engineer
Fort Greely
172d Infantry Brigade
Fort Richardson, AK 99505

Facilities Engineer
Tarheel Army Missile Plant
204 Granham-Hopedale Rd
Burlington, NC 27215

Facilities Engineer
Harry Diamond Laboratories
2800 Powder Mill Rd
Adelphi, MD 20783

Facilities Engineer
Fort Missoula
Missoula, MT 59801

Facilities Engineer
New Cumberland Army Depot
New Cumberland, PA 17070

Facilities Engineer
Oakland Army Base
Oakland, CA 94626

Facilities Engineer
Vint Hill Farms Station
Warrentown, VA 22186

Facilities Engineer
Twin Cities Army Ammunition Plant
New Brighton, MN 55112

Facilities Engineer
Volunteer Army Ammunition Plant
Chattanooga, TN 37401

Facilities Engineer
Watervliet Arsenal
Watervliet, NY 12189

Facilities Engineer
St Louis Area Support Center
Granite City, IL 62040

Facilities Engineer
Fort Monmouth
Fort Monmouth, NJ 07703

Facilities Engineer
Redstone Arsenal
Redstone Arsenal, AL 35809

DIST 5

Facilities Engineer
Detroit Arsenal
Warren, MI 48039

Facilities Engineer
Aberdeen Proving Ground
Aberdeen Proving Ground, MD 21005

Facilities Engineer
Jefferson Proving Ground
Madison, IN 47250

Facilities Engineer
Dugway Proving Ground
Dugway, UT 84022

Facilities Engineer
Fort McCoy
Sparta, WI 54656

Facilities Engineer
White Sands Missile Range
White Sands Missile Range, NM 88002

Facilities Engineer
Yuma Proving Ground
Yuma, AZ 85364

Facilities Engineer
Natick Research & Dev Ctr
Kansas St.
Natick, MA 01760

Facilities Engineer
Fort Bragg
Fort Bragg, NC 28307

Facilities Engineer
Fort Campbell
Fort Campbell, KY 42223

Facilities Engineer
Fort Carson
Fort Carson, CO 80913

Facilities Engineer
Fort Drum
Watertown, NY 13601

Facilities Engineer
Fort Hood
Fort Hood, TX 76544

Facilities Engineer
Fort Indiantown Gap
Annville, PA 17003

Facilities Engineer
Fort Lewis
Fort Lewis, WA 98433

Facilities Engineer
Fort MacArthur
Fort MacArthur, CA 90731

Facilities Engineer
Fort McPherson
Fort McPherson, GA 30330

Facilities Engineer
Fort George G. Meade
Fort George G. Meade, MD 20755

Facilities Engineer
Fort Polk
Fort Polk, LA 71459

Facilities Engineer
Fort Riley
Fort Riley, KS 66442

Facilities Engineer
Fort Stewart
Fort Stewart, GA 31312

Facilities Engineer
Indiana Army Ammunition Plant
Charlestown, IN 47111

Facilities Engineer
Joliet Army Ammunition Plant
Joliet, IL 60436

Facilities Engineer
Anniston Army Depot
Anniston, AL 36201

Facilities Engineer
Corpus Christi Army Depot
Corpus Christi, TX 78419

Facilities Engineer
Red River Army Depot
Texarkana, TX 75501

Facilities Engineer
Sacramento Army Depot
Sacramento, CA 95813

Facilities Engineer
Sharpe Army Depot
Lathrop, CA 95330

Facilities Engineer
Seneca Army Depot
Romulus, NY 14541

Facilities Engineer
Fort Ord
Fort Ord, CA 93941

Facilities Engineer
Presidio of San Francisco
Presidio of San Francisco, CA 94129

Facilities Engineer
Fort Sheridan
Fort Sheridan, IL 60037

Facilities Engineer
Holston Army Ammunition Plant
Kingsport, TN 37662

Facilities Engineer
Baltimore Output
Baltimore, MD 21222

Facilities Engineer
Bayonne Military Ocean Terminal
Bayonne, NJ 07002

Facilities Engineer
Bay Area Military Ocean Terminal
Oakland, CA 94626

Facilities Engineer
Gulf Output
New Orleans, LA 70146

Facilities Engineer
Fort Huachuca
Fort Huachuca, AZ 86513

Facilities Engineer
Letterkenny Army Depot
Chambersburg, PA 17201

Facilities Engineer
Michigan Army Missile Plant
Warren, MI 48089

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ATTN: Chief, Engr Div
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USA Engr Dist, Detroit
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Detroit, MI 48231

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DIST 7

USA Engr Dist, Omaha
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215 N. 17th St
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USA Engr Dist, Fort Worth
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USA Engr Dist, Far East
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USA Engr Dist, Mobile
ATTN: Chief, SAMEN-C
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Omaha, NE 68101

USA Engr Div, South Pacific
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San Francisco, CA 94111

USA Engr Div, Huntsville
ATTN: Chief, HNDED-ME
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Huntsville, AL 35807

USA Engr Div, Ohio River
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USA Engr Div, North Central
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USA Engr Div, Southwestern
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Support Detachment II
Fort Gillem, GA 30050

DIST 8

Commander
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NCOIC
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Support Detachment IV
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Stewart Army Subpost
Newburgh, New York 12250

NCOIC
US Army Facilities Engineering
Support Agency
Support Detachment II
ATTN: FESA-II-JA
Fort Jackson, South Carolina 29207

NCOIC
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Support Detachment II
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DIST 9

Directorate of Facilities Engineer
Energy Environmental & Self Help Center
Fort Campbell, KY 42223

Commander and Director
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ATTN: COL Circeo
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Mr. Ray Heller
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HQ, US Military Community Activity,
Heilbronn
Director of Engineering & Housing
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Commanding General
HQ USATC and Fort Leonard Wood
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NCOIC
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Fort Monmouth, NJ 07703

NCOIC
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Commander-in-Chief
HQ, USAEUR
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SSG Ruiz Burgos Andres
D.F.E., HHC HQ Cmd 193d Inf
BDE
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Commander
Presidio of San Francisco,
California
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San Francisco, CA 94129

Facilities Engineer
Corpus Christi Army Depot
ATTN: Mr. Joseph Canpu/Stop 24
Corpus Christi, TX 78419

Walter Reed Army Medical Center
ATTN: HSWS-E/James Prince
6825 16th St., NW
Washington, DC 20012

DIST 10

Commanding Officer
Installations and Services Activity
ATTN: DRCIS-RI-1B
Rock Island Arsenal
Rock Island, IL 61299

Commanding Officer
Northern Division Naval
Facilities Engineering Command
Code 102 (Mr. E.F. HUMM)
Naval Base
Philadelphia, PA 19112

Commander US Army Facilities Engineering
Support Agency
Support Detachment I
APO New York 09081

HQ, USA Health Services Cnd
Bldg 2792
ATTN: HSLO-F
Fort Sam Houston, TX 78234

HQDA
(DAEN-MPE-E)
WASH DC 20314

Commanding Officer
Northern Division Naval
Facilities Engineering Command
Code 10
Naval Base, Building 77
Philadelphia, PA 19112

Facilities Engineer
Fort Leavenworth
Fort Leavenworth, KS 66027

Facilities Engineer
Fort Benjamin Harrison
Fort Benjamin Harrison, IN 46216

Office of the A&E
ATTN: MAJ Johnson
Camp Ripley
Little Falls, MN 56345

Commander
US Army Garrison
ATTN: HSD-FE
Fort Detrick, MD 21701

AFESC/DEB
ATTN: Mr. Fred Beason
Tyndall AFB, FL 32403

Mr. David White
Defense Audit Service
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Facilities Engineer
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NAVFAC
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