

AFCEC-TR-75-21

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**AIR FORCE FUEL DUMPING:
OCTOBER 1974 TO MARCH 1975**

**AIR FORCE CIVIL ENGINEERING CENTER, OL-AA
KIRTLAND AFB, NEW MEXICO 87117**

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FINAL REPORT: OCTOBER 1974 - MARCH 1975

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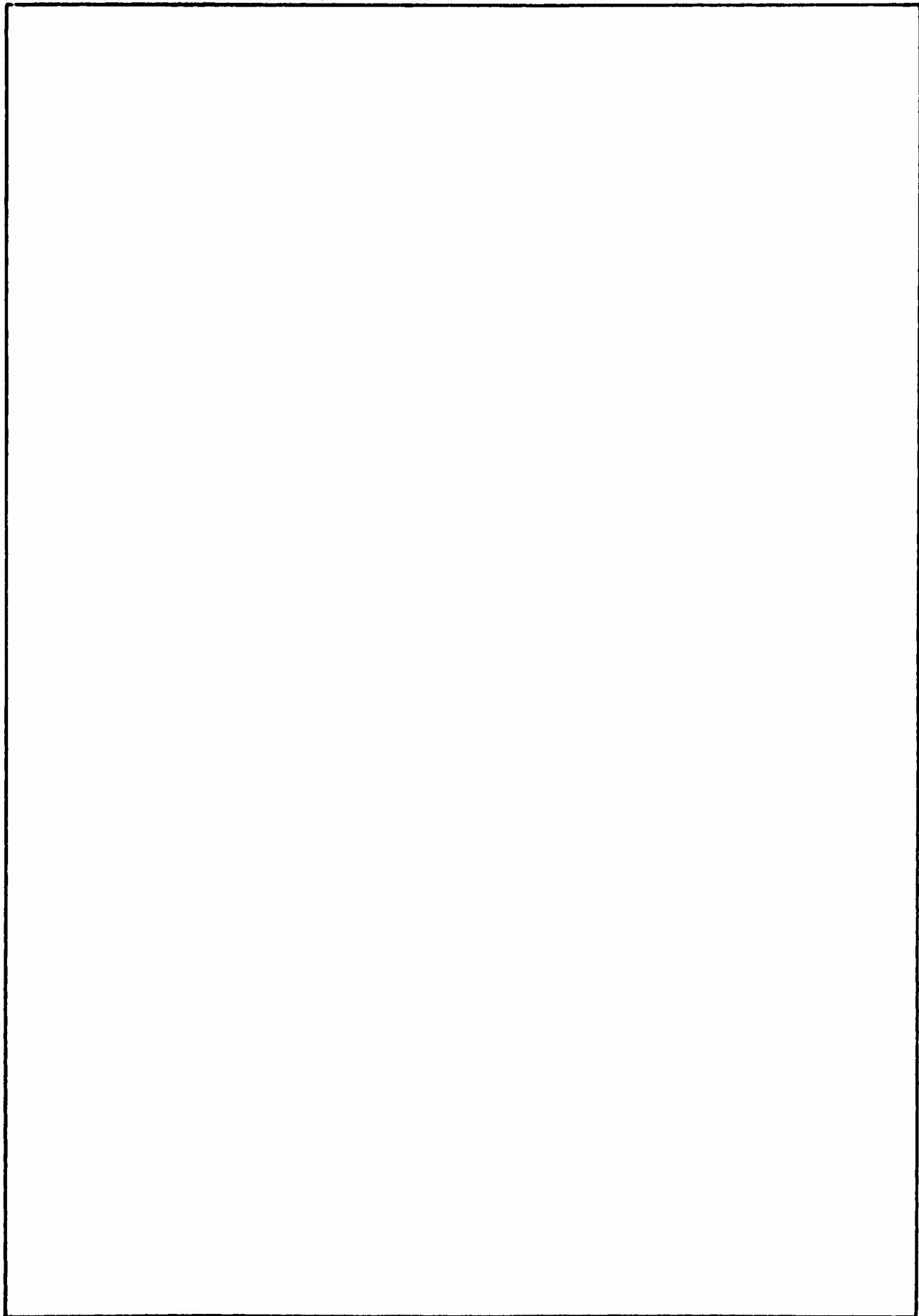


**AIR FORCE CIVIL ENGINEERING CENTER
(AIR FORCE SYSTEMS COMMAND)
TYNDALL AIR FORCE BASE
FLORIDA 32401**

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| 20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Listings and summaries of all reported Air Force fuel dumps between 1 October 1974 and 31 March 1975 are given and are broken down by major command and by aircraft type. The distributions of fuel dumps by geographical area, size, and altitude are also examined. Several geographical areas in which fuel dumping is most likely to have a significant environmental impact are identified. Most fuel dumps fall into one of two distinct classes and can be studied by investigating in detail a typical member of the class. The implications of this simplification for the future conduct of the fuel dumping project are discussed. | | |

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SECTION I

INTRODUCTION

Between 1969 and 1971, the Air Force was charged with two instances of crop damage in California due to jet fuel dumped by Air Force aircraft operating from Travis AFB and Beale AFB. Also during this period there were inquiries from Congress and from private citizens on Air Force fuel dumping. These inquiries were spurred, in part, by a public controversy over fuel venting by civilian aircraft and by an increased general concern for the environment.

While neither of the allegations against the Air Force was justified, and while the other inquiries were stopped after only a few questions were answered, it became clear that much remained to be learned about the impact of Air Force fuel dumping on the environment. Not only was the effect of the dumped fuel (as fuel liquid or vapor and as raw material for the formation of photochemical smog) on the atmosphere and on living things unknown, but there was not even quantitative knowledge of the full extent of Air Force fuel dumping.

In early 1972, the Environics Branch of the Air Force Weapons Laboratory, which has now been designated the Environics Directorate of the Air Force Civil Engineering Center, began a study of the impact of Air Force fuel dumping on the environment. To answer simple questions regarding the sizes and locations of fuel dumps, and to learn the typical values of other fuel dumping parameters (e.g., altitude, airspeed, dump rate, and meteorological factors) which determine how the fuel behaves physically and chemically after it is released, a full record of Air Force fuel dumping was needed. Consequently, AFR 19-3, dated 15 March 1974, was published, requiring that all Air Force fuel dumps be reported to the Air Force Weapons Laboratory (AFWL).

Data collected for the first six months of full operation of the fuel dump reporting procedures prescribed by AFR 19-3 is presented in this report. The lack of any previous data on this subject and the continuing need for documented facts to answer challenges to Air Force operations make it important that this information be made available throughout the Air Force on a priority basis.

The primary aim of this report is the quick dissemination of this data to using organizations. All reported fuel dumps are tabulated by responsible command and by aircraft type as these two breakdowns are probably the most usable. The fuel dumps are summarized according to the geographical areas in which they occur. Distributions of fuel dumps by altitude and by quantity of fuel are given. A number of geographical areas in which fuel dumps concentrate to a significant degree are identified. Additionally, the implications of the data vis-a-vis research on the physical and chemical behavior of dumped fuel are discussed.

SECTION II

DETAILED FUEL DUMP DATA

As individual fuel dump reports were received at AFWL, the information on each dump was punched on a data card for computer processing. Table 1 lists all reported Air Force fuel dumps for the period 1 October 1974 to 31 March 1975, broken down by the major command responsible for the fuel dumping. Table 2 summarizes the fuel dumping by command and by month.

The data cards were sorted in a different way to produce Table 3, which is a list of all the fuel dumps by aircraft type. A summary of this presentation is given in Table 4.

With regard to the reliability of the data, AFR 19-3 does not require negative reports; therefore, no way is provided to assure the completeness of the reports received. The Strategic Air Command (SAC) had its own fuel dump reporting system before the publication of AFR 19-3 and used this system to provide the reports to AFWL. Presumably, this is a well-tried and efficient reporting system. The fact that only a few Tactical Air Command (TAC) bases reported extensive fuel dumping while the others reported none can be explained by the differences in types of aircraft operating at the bases. At any rate, the data is complete to the extent of full compliance with AFR 19-3.

Some obvious errors were found in the fuel dump reports, e.g., a fuel dump reportedly located over the Soviet Union. Such errors were corrected only when the correction to be made was equally obvious. Even though additional errors in the data may still exist, one must rely on the accuracy and thoroughness of the reporting commands.

TABLE 1. FUEL DUMPS BY COMMAND

| COMMANDS A/C | DATE | TIME (Z) | ACFT | FUEL (%) | ALT (K FT) | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPU | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
|----------------|----------|----------|--------|----------|------------|---------------|------------------|---------|----------|--------------|-----------------|---------|
| | 10 31 74 | 1425 | -G1214 | 112 | 4.0 | 700 | 2000 | 150 | 25 | 40 20 | MAFBORTAC170/30 | 61 |
| | 11 4 74 | 2035 | -G1211 | 115 | 8.0 | 13500 | 4000 | 200 | 20 | 330 20 | M0364M12500 | 45 |
| | 11 27 74 | 1110 | -G1211 | 115 | 5.0 | 23000 | 4300 | 180 | 80 | 90 5 | M03030M12030 | 45 |
| | 12 18 74 | 1415 | -G1211 | 115 | 6.0 | 9000 | 4300 | 170 | 17 | 360 15 | MX 170 15 | 51 |
| | 12 20 74 | 2230 | -G1214 | 115 | 10.0 | 9000 | 3600 | 200 | 30 | 238 10 | M03210M11800 | 49 |
| | 1 0 75 | 0453 | -G1211 | 115 | 10.0 | 33000 | 3600 | 173 | -00 | 330 10 | M03319M12046 | 58 |
| | 1 17 75 | 2305 | -G1211 | 115 | 7.0 | 8000 | 3000 | 160 | 30 | 0 0 | M03840M12136 | 58 |
| | 1 23 75 | 1309 | -G1211 | 115 | 7.5 | 7000 | 3500 | 165 | 100 | 310 25 | M03319M12086 | 58 |
| | 2 11 75 | 1417 | -G1211 | 115 | 4.0 | 7320 | 2400 | 170 | 16 | 223 13 | M02420M00050 | 65 |
| | 2 14 75 | 1503 | -G1211 | 115 | 8.0 | 29500 | 3600 | 160 | -80 | 330 10 | M03440M00450 | 65 |
| | 3 6 75 | 1609 | -G1211 | 115 | 9.0 | 24000 | 3600 | 180 | -100 | 320 10 | M03040M12136 | 63 |
| | 3 20 75 | 1520 | -G1211 | 115 | 8.0 | 24000 | 3300 | 170 | -50 | 280 25 | M03050M12150 | 63 |
| | 3 27 75 | 1330 | -G1211 | 115 | 7.0 | 3700 | 4000 | 150 | -150 | 230 30 | M0460M106003 | 63 |
| COMMAND TOTALS | | | | | | 13 DUMPS | 191020 LBS | | | | | |

| COMMANDS A/C | DATE | TIME (Z) | ACFT | FUEL (%) | ALT (K FT) | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPU | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
|----------------|---------|----------|------|----------|------------|---------------|------------------|---------|----------|--------------|------------------|---------|
| | 1 22 75 | 1315 | 783 | 115 | 3.5 | 2000 | 180 | 175 | 120 | 241 10 | MACONRAD08-200RE | 59 |
| COMMAND TOTALS | | | | | | 1 DUMP | 2000 LBS | | | | | |

| COMMANDS A/C | DATE | TIME (Z) | ACFT | FUEL (%) | ALT (K FT) | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPU | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
|----------------|----------|----------|--------|----------|------------|---------------|------------------|---------|----------|--------------|------------------|---------|
| | 10 12 74 | 1605 | NC115 | 115 | 23.0 | 46000 | 2000 | 350 | -250 | 330 25 | M03445M10635 | 35 |
| | 10 14 74 | 1503 | F4U | 115 | 20.0 | 300 | 650 | 430 | -120 | 360 10 | M03300M10620 | 36 |
| | 12 0 74 | 2120 | F4U | 115 | 15.0 | 50 | 650 | 350 | 50 | 270 20 | M03440M10632 | 57 |
| | 12 11 74 | 1140 | F4U | 115 | 15.0 | 50 | 650 | 350 | 50 | 270 15 | M03440M10632 | 57 |
| | 12 17 74 | 1045 | F4U | 115 | 5.5 | 4000 | 650 | 350 | 20 | 270 20 | M03300M10623 | 57 |
| | 12 17 74 | 2120 | -G133M | 115 | 14.0 | 30000 | 4000 | 300 | 00 | 270 10 | 200-308EMOMOLULU | 58 |
| | 12 14 74 | 1944 | F4U | 115 | 15.0 | 50 | 650 | 350 | 300 | 270 35 | M03440M10632 | 57 |
| | 1 10 75 | 1900 | F4U | 115 | 12.0 | 20 | 650 | 250 | 00 | 330 50 | M03340M10638 | 57 |
| | 1 14 75 | 1915 | F4U | 115 | 15.0 | 50 | 650 | 350 | 00 | 270 30 | M03440M10640 | 57 |
| | 1 21 75 | 2000 | F4U | 115 | 11.0 | 50 | 650 | 350 | -5 | 330 40 | M03440M10640 | 57 |
| | 1 27 75 | 1615 | F4U | 115 | 11.0 | 50 | 650 | 450 | 00 | 024 30 | M03450M10645 | 57 |
| | 2 4 75 | 1610 | F4U | 115 | 11.5 | 1500 | 600 | 450 | 00 | 024 30 | M03450M10645 | 61 |
| | 2 13 75 | 1410 | NE334 | 115 | 15.0 | 2000 | 180 | 180 | 430 | 360 15 | M03029M06632 | 62 |
| COMMAND TOTALS | | | | | | 13 DUMPS | 144150 LBS | | | | | |

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TABLE 1. FUEL DUMPS BY COMMAND (Continued)

| COMMAND: MAL | | | | | | | | | | COMMAND: PACAF | | | | | | | | | | COMMAND: SAC | | | | | | | | | | | | | | | |
|------------------------------------|----------|--------|----------|----------|---------------|------------------|---------|----------|--------------|----------------------------------|---------|---------|----------|--------|----------|----------|---------------|------------------|---------|----------------------------------|--------------|-------------|---------|------|----------|------|----------|----------|---------------|------------------|---------|--------------|--------------|-------------|---------|
| DATE | TIME (Z) | ACFT | FUEL (%) | ALT K FT | POUNDS JUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. | DATE | TIME (Z) | ACFT | FUEL (%) | ALT K FT | POUNDS JUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. | DATE | TIME (Z) | ACFT | FUEL (%) | ALT K FT | POUNDS JUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
| 10 1 74 | 1540 | WH12 | | 11.5 | 1600 | 800 | 90 | 26C | 330 5 | N08918N07957 | 39 | 10 1 74 | 1631 | 601355 | 20.0 | 2000 | 6500 | 450 | -30 | 330 30 | N05200E17400 | 46 | 10 1 74 | 1631 | 60135A | 21.0 | 9500 | 6000 | 350 | -30 | 160 26 | N04717N09035 | 46 | | |
| 11 11 74 | 1358 | 0141 | | 15.0 | 7660 | 2645 | 432 | -45 | 240 22 | PARKER VORTAC | 48 | 10 1 74 | 1640 | 601350 | 21.0 | 3000 | 6500 | 450 | 5 | 270 30 | N04030N08000 | 46 | 10 1 74 | 1640 | 601350 | 21.0 | 3000 | 6500 | 450 | 5 | 270 30 | N04030N08000 | 46 | | |
| 11 11 74 | 0045 | 0141 | | 16.0 | 5200 | 500 | 318 | 10C | 60 20 | MO1459E12045 | 48 | 10 1 74 | 1640 | 601350 | 21.0 | 3000 | 6500 | 450 | 5 | 270 30 | N04030N08000 | 46 | 10 1 74 | 1640 | 601350 | 21.0 | 3000 | 6500 | 450 | 5 | 270 30 | N04030N08000 | 46 | | |
| 11 11 74 | 0223 | 601353 | | 18.0 | 7000 | 8000 | 400 | -45 | 280 40 | ALAS/FBMS VORTAC | 47 | 10 1 74 | 1640 | 601350 | 21.0 | 3000 | 6500 | 450 | 5 | 270 30 | N04030N08000 | 46 | 10 1 74 | 1640 | 601350 | 21.0 | 3000 | 6500 | 450 | 5 | 270 30 | N04030N08000 | 46 | | |
| 2 24 75 | 0220 | 601358 | | 18.0 | 3000 | 7600 | 400 | -28 | 270 50 | MO3905E14420 | 81 | 10 1 74 | 1640 | 601350 | 21.0 | 3000 | 6500 | 450 | 5 | 270 30 | N04030N08000 | 46 | 10 1 74 | 1640 | 601350 | 21.0 | 3000 | 6500 | 450 | 5 | 270 30 | N04030N08000 | 46 | | |
| 3 25 75 | 0115 | WH5F | | 12.2 | 500 | 800 | 70 | 4C | 260 5 | MO3831N12283 | 85 | 10 1 74 | 1640 | 601350 | 21.0 | 3000 | 6500 | 450 | 5 | 270 30 | N04030N08000 | 46 | 10 1 74 | 1640 | 601350 | 21.0 | 3000 | 6500 | 450 | 5 | 270 30 | N04030N08000 | 46 | | |
| COMMAND TOTALS: 6 DUMPS 230730 LBS | | | | | | | | | | COMMAND TOTALS: 1 DUMPS 3000 LBS | | | | | | | | | | COMMAND TOTALS: 1 DUMPS 3000 LBS | | | | | | | | | | | | | | | |

TABLE I. FUEL DUMPS BY COMMAND (Continued)

(*) FUEL IS JP-4 IF ENTRY BLANK

| COMMAND | SAC | (CONTINUED) | DATE | TIME (Z) | ACFT | FUEL (%) | ALT K FT | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
|---------|-----|-------------|------|----------|--------|----------|----------|---------------|------------------|---------|----------|--------------|--------------|---------|
| 10 | 16 | 74 | 0323 | | KC135 | 1.2 | 4500 | 1000 | 240 | 22 | 205 | 18 | M01317E14353 | 66 |
| 10 | 17 | 74 | 0950 | | KC135A | 20.0 | 2000 | 700 | 320 | -6 | 240 | 50 | M04311M06938 | 66 |
| 10 | 14 | 74 | 0010 | | KC135A | 20.0 | 6000 | 6000 | 330 | -20 | 335 | 10 | M03342M09954 | 66 |
| 10 | 14 | 74 | 0126 | | KC135A | 21.0 | 13000 | 4500 | 300 | -16 | 310 | 180 | M03925M03362 | 66 |
| 10 | 21 | 74 | 0130 | | KC135A | 2.0 | 25000 | 6500 | 350 | 6 | 155 | 12 | M01314E14610 | 66 |
| 10 | 21 | 74 | 1423 | | KC135A | 20.0 | 6200 | 8000 | 320 | 6 | 270 | 20 | M04725M11121 | 66 |
| 10 | 21 | 74 | 2040 | | KC135A | 20.0 | 6200 | 5500 | 300 | 4 | 270 | 20 | M03299M09911 | 66 |
| 10 | 22 | 74 | 0702 | | KC135 | 10.0 | 12000 | 6500 | 450 | -15 | 270 | 15 | M05134E17433 | 66 |
| 10 | 22 | 74 | 1944 | | KC135A | 21.0 | 3000 | 3000 | 360 | -14 | 270 | 30 | M03230M09305 | 66 |
| 11 | 22 | 74 | 1952 | | KC135A | 18.0 | 23000 | 6000 | 380 | 7 | 90 | 25 | M02150M15510 | 66 |
| 11 | 24 | 74 | 0849 | | KC135C | 27.0 | 35000 | 4000 | 370 | -37 | 240 | 10 | M06530M10500 | 66 |
| 10 | 25 | 74 | 0520 | | KC135A | 31.0 | 30000 | 6000 | 180 | -2 | 270 | 60 | M03740E02402 | 66 |
| 10 | 27 | 74 | 0730 | | KC-37 | 20.0 | 34000 | 4000 | 360 | -25 | 270 | 35 | M03600E02439 | 66 |
| 10 | 24 | 74 | 1645 | | KC135 | 13.6 | 20000 | 400 | 270 | 10 | 160 | 10 | M04340M18343 | 66 |
| 10 | 24 | 74 | 0620 | | KC135J | 34.0 | 40000 | 300 | 250 | 22 | 290 | 15 | M03224M09322 | 66 |
| 10 | 24 | 74 | 2021 | | KC135L | 28.0 | 15000 | 4000 | 350 | -21 | 220 | 40 | M04051M00556 | 66 |
| 11 | 31 | 74 | 0620 | | KC135A | 22.0 | 4000 | 6000 | 255 | 8 | 185 | 25 | M01344E14409 | 66 |
| 11 | 31 | 74 | 2342 | | KC135A | 24.0 | 28000 | 4000 | 235 | -10 | 228 | 48 | M03209M10028 | 66 |
| 10 | 31 | 74 | 0015 | | KC135S | 19.9 | 9000 | 6500 | 450 | -12 | 270 | 15 | M05230E17340 | 66 |
| 11 | 1 | 74 | 0045 | | KC135A | 21.0 | 30000 | 7000 | 400 | -10 | 270 | 40 | M03087M12010 | 66 |
| 11 | 1 | 74 | 0503 | | KC135C | 27.0 | 54000 | 6200 | 400 | -32 | 270 | 30 | M04025M09530 | 66 |
| 11 | 2 | 74 | 0337 | | KC135M | 25.0 | 24000 | 1500 | 400 | 8 | 270 | 10 | M01525E11302 | 66 |
| 11 | 4 | 74 | 0755 | | KC135S | 25.0 | 25000 | 4500 | 400 | -20 | 320 | 30 | M05400E17208 | 66 |
| 11 | 4 | 74 | 1515 | | KC135A | 20.0 | 58000 | 6000 | 340 | -12 | 240 | 25 | M03303M00243 | 66 |
| 11 | 4 | 74 | 1641 | | KC135S | 22.0 | 21000 | 6500 | 450 | -42 | 300 | 55 | M05230E17430 | 66 |
| 11 | 4 | 74 | 1735 | | F8111A | 2.0 | 12000 | 6000 | 180 | 18 | 270 | 30 | M04448M07316 | 66 |
| 11 | 4 | 74 | 2115 | | KC135S | 20.0 | 23000 | 6500 | 150 | -20 | 300 | 20 | M05245E17420 | 66 |
| 11 | 5 | 74 | 0422 | | KC1350 | 24.0 | 75000 | 5000 | 400 | -40 | 220 | 40 | M06510M14627 | 66 |
| 11 | 7 | 74 | 1912 | | KC135 | 5.0 | 40000 | 700 | 250 | 23 | 95 | 23 | M02039M05004 | 66 |
| 11 | 7 | 74 | 1510 | | KC135A | 10.0 | 65000 | 6000 | 380 | 17 | 240 | 30 | M03257M00239 | 66 |
| 11 | 4 | 74 | 1443 | | KC135 | 17.0 | 63000 | 6500 | 370 | 48 | 240 | 42 | M03644M07022 | 66 |
| 11 | 11 | 74 | 1355 | | F8111 | 30.0 | 10000 | 2000 | 250 | 8 | 180 | 15 | M04030M00625 | 66 |
| 11 | 11 | 74 | 0210 | | KC135S | 28.0 | 20000 | 6500 | 450 | -33 | 210 | 10 | M04400E07633 | 66 |
| 11 | 12 | 74 | 0005 | | KC1350 | 26.0 | 22500 | 500 | 340 | -17 | 290 | 70 | M06504M10610 | 66 |
| 11 | 12 | 74 | 0409 | | KC135V | 23.0 | 33000 | 500 | 250 | 46 | 180 | 6 | M04423M07334 | 66 |
| 11 | 12 | 74 | 1353 | | KC135U | 15.0 | 20000 | 5000 | 450 | -44 | 300 | 70 | M04633M10935 | 66 |
| 11 | 13 | 74 | 0049 | | KC135A | 14.0 | 60000 | 7300 | 250 | -6 | 240 | 20 | M03081M12007 | 66 |
| 11 | 13 | 74 | 1641 | | KC135A | 24.0 | 25000 | 6000 | 400 | -20 | 290 | 40 | M04741M09752 | 66 |
| 11 | 13 | 74 | 0430 | | KC135A | 10.0 | 38000 | 6000 | 247 | -5 | 350 | 40 | M04043M09522 | 66 |
| 11 | 14 | 74 | 0817 | | KC135 | 28.0 | 15000 | 3600 | 405 | -18 | 300 | 25 | M03600E02515 | 66 |
| 11 | 15 | 74 | 1540 | | KC135S | 21.0 | 20000 | 600 | 450 | -44 | 220 | 30 | M03323E17326 | 66 |
| 11 | 14 | 74 | 1515 | | KC135S | 21.0 | 33000 | 6500 | 450 | -20 | 205 | 100 | M05336E17312 | 66 |
| 11 | 14 | 74 | 0242 | | KC135J | 24.0 | 60000 | 3000 | 355 | -41 | 150 | 10 | M06356M14701 | 66 |
| 11 | 14 | 74 | 1834 | | KC135A | 10.0 | 64000 | 7000 | 365 | -22 | 340 | 80 | M04611M00502 | 66 |
| 11 | 14 | 74 | 0112 | | KC1350 | 24.0 | 50000 | 6500 | 450 | -25 | 220 | 30 | M04100M14400 | 66 |
| 11 | 21 | 74 | 0237 | | KC135A | 22.0 | 20000 | 6000 | 250 | -30 | 220 | 30 | M06519M14619 | 66 |
| 11 | 22 | 74 | 0013 | | KC135A | 21.0 | 50000 | 1800 | 380 | -38 | 360 | 40 | M04611M00540 | 66 |
| 11 | 22 | 74 | 1619 | | KC135S | 21.0 | 14000 | 6500 | 150 | -34 | 280 | 70 | M05312E17541 | 66 |
| 11 | 23 | 74 | 0145 | | F8111A | 8.0 | 25000 | 2500 | 275 | 8 | 320 | 20 | M04431M07352 | 66 |
| 11 | 24 | 74 | 0343 | | KC135A | 15.0 | 90000 | 600 | 350 | -30 | 290 | 30 | M06437M14945 | 66 |
| 11 | 20 | 74 | 0104 | | KC135A | 25.0 | 63000 | 6300 | 375 | -10 | 320 | 70 | M03985M00320 | 66 |

TABLE 1. FUEL DUMPS BY COMMAND (Continued)

COMMANDS 346 (CONTINUED)

(*) FUEL IS JP-4 IF ENTRY BLANK

| TIME (Z) | ALFT | FUEL (%) | ALT (FT) | POLDS JUMPED | JUMP RATE LB/MIN | AIR SPU | AIR TEMP | WIND DIR/SPO | COORDINATES | LOG NO. |
|----------|--------|----------|----------|--------------|------------------|---------|----------|--------------|--------------|---------|
| 11 27 74 | K0135 | | 29.0 | 6000 | 6500 | 390 | -31 | 225 70 | M06404M19715 | 46 |
| 11 27 74 | K0135 | | 29.0 | 4000 | 500 | 325 | -14 | 225 70 | M06404M19050 | 46 |
| 11 24 74 | K0135A | | 14.0 | 6000 | 5000 | 280 | -2 | 270 30 | M04180M00280 | 46 |
| 11 24 74 | K0135A | | 6.0 | 3000 | 5000 | 320 | +12C | 280 35 | M04300M07829 | 46 |
| 11 24 74 | K0135 | | 24.0 | 3000 | 600 | 300 | -24 | 220 20 | M03307M11744 | 46 |
| 11 29 74 | K0135A | | 27 | 91000 | 6500 | 280 | -6 | 190 20 | M06430E14704 | 46 |
| 11 30 74 | K0135A | | 25.0 | 18000 | 1000 | 378 | -20 | 290 18 | M02712E12829 | 46 |
| 12 3 74 | K0135A | | 17.0 | 7200 | 6500 | 300 | 6 | 300 15 | M03156M09929 | 52 |
| 12 3 74 | K0135A | | 28.0 | 6500 | 6500 | 395 | -34 | 200 45 | M06643M14724 | 52 |
| 12 3 74 | K0135A | | 21.0 | 6500 | 5500 | 350 | -46 | 320 45 | M06615M09505 | 52 |
| 12 4 74 | K0135A | | 24.0 | 11000 | 3000 | 418 | -20C | 200 65 | M05255E00015 | 53 |
| 12 4 74 | U2 | JPT | 19.0 | 5000 | 2000 | 174 | -18 | 230 25 | M03158M11100 | 52 |
| 12 4 74 | K0135A | | 20.0 | 7600 | 3500 | 250 | -24 | 310 35 | M04050M06551 | 52 |
| 12 5 74 | K0135S | | 23.5 | 13000 | 6500 | 450 | -40 | 310 30 | M05334E17257 | 52 |
| 12 6 74 | U2 | JPT | 20.0 | 13000 | 300 | 170 | 19 | 310 65 | M03158M11100 | 52 |
| 12 6 74 | K0135 | | 22.0 | 5500 | 6400 | 360 | -4 | 170 25 | M03730M09700 | 52 |
| 12 7 74 | K0135 | | 25.0 | 13000 | 6500 | 450 | -20 | 270 30 | M05400E17400 | 52 |
| 12 11 74 | K0135A | | 20.0 | 2000 | 4700 | 314 | -10 | 250 40 | M04014M09535 | 52 |
| 12 11 74 | K0135 | | 20.0 | 3500 | 5000 | 300 | -26 | 270 70 | M06613M08520 | 52 |
| 12 11 74 | K0135 | | 23.5 | 16000 | 6500 | 450 | -50 | 190 15 | M05425E17230 | 52 |
| 12 13 74 | K0135 | | 25.0 | 5000 | 4400 | 415 | -50 | 200 20 | M06518M14638 | 52 |
| 12 13 74 | K0135 | | 20.0 | 7000 | 700 | 320 | -11 | 280 90 | M05330E00042 | 52 |
| 12 17 74 | F311A | | 8 | 13000 | 2500 | 360 | -8 | 210 29 | M06244M06026 | 52 |
| 12 17 74 | K0135A | | 16.0 | 5200 | 6000 | 420 | -23 | 270 30 | M04740M09000 | 52 |
| 12 17 74 | K0135A | | 26.0 | 2000 | 3000 | 310 | 4 | 260 35 | M03250M10010 | 52 |
| 12 17 74 | K0135A | | 26.0 | 6500 | 6500 | 375 | 4 | 290 12 | M03455M10000 | 52 |
| 12 11 74 | K0135A | | 57.0 | 4300 | 600 | 350 | -20 | 260 30 | M03450M07740 | 52 |
| 12 11 74 | U2 | JPT | 20.0 | 3000 | 1800 | 420 | -60 | 220 10 | M03159M11014 | 52 |
| 12 11 74 | K0135A | | 20.0 | 8200 | 700 | 325 | -6 | 270 50 | M04030M11650 | 52 |
| 12 20 74 | K0135A | | 25.0 | 4700 | 600 | 355 | -15 | 320 55 | M03949M12121 | 52 |
| 12 20 74 | K0129C | | 23.5 | 2000 | 7700 | 390 | -40 | 340 50 | M04317M10232 | 52 |
| 12 25 74 | K0135S | | 20.0 | 3000 | 6500 | 450 | -40 | 350 40 | M05252E17310 | 52 |
| 12 30 74 | K0135A | | 29.0 | 2300 | 6500 | 370 | -40 | 270 90 | M03730M09700 | 52 |
| 1 0 75 | K0135 | | 20.0 | 4200 | 6000 | 380 | -11 | 340 65 | M04431M07352 | 60 |
| 1 0 75 | F311A | | 8.5 | 13000 | 2000 | 270 | 10 | 250 25 | M04520M07828 | 60 |
| 1 0 75 | K0135 | | 29.0 | 3000 | 4000 | 440 | -25 | 260 70 | M04715M11430 | 60 |
| 1 4 75 | K0135A | | 25.0 | 6000 | 4000 | 380 | -10 | 255 30 | M02640E12729 | 60 |
| 1 4 75 | K0135A | | 21.0 | 5500 | 7200 | 239 | -32 | 300 40 | M04636M06042 | 60 |
| 1 1 75 | K0135S | | 14.0 | 3300 | 6500 | 450 | -8 | 220 10 | M05280E17410 | 60 |
| 1 10 75 | K0135A | | 20.0 | 3400 | 3000 | 350 | -2 | 270 45 | M04355M07355 | 60 |
| 1 11 75 | K0135A | | 20.0 | 2500 | 500 | 362 | -10 | 300 30 | M03636M11915 | 60 |
| 1 11 75 | K0135A | | 22.0 | 3400 | 6500 | 400 | -10 | 180 5 | M01358E14645 | 60 |
| 1 11 75 | K0135A | | 20.0 | 3400 | 4000 | 300 | -56 | 140 20 | M04624M08050 | 60 |
| 1 11 75 | K0135A | | 25.0 | 2200 | 4500 | 350 | -35 | 330 60 | M03956M12834 | 60 |
| 1 10 75 | F311A | | 5.0 | 10000 | 2300 | 260 | -10 | 260 20 | M04430M07332 | 60 |
| 1 10 75 | F311A | | 20.0 | 17000 | 2300 | 322 | -2 | 287 40 | M04550M00211 | 60 |
| 1 10 75 | K0135A | | 10.0 | 7100 | 6500 | 300 | -20 | 270 30 | M06514M01425 | 60 |
| 1 11 75 | K0135A | | 20.0 | 8100 | 6800 | 425 | -26 | 310 18 | M05940M14656 | 60 |
| 1 11 75 | K0135A | | 26.0 | 6200 | 600 | 370 | -13 | 310 40 | M03651M11900 | 60 |
| 1 11 75 | K0135A | | 10.0 | 4000 | 1800 | 160 | -15 | 330 40 | M04040M09530 | 60 |
| 1 11 75 | K0135A | | 14.0 | 9600 | 3500 | 350 | -20 | 240 20 | M06603M14720 | 60 |

TABLE 1. FUEL DUMPS BY COMMAND (Continued)

| DATE | TIME (Z) | AGFT | FUEL (*) | ALT (FT) | POUNDS DUMPED | DUMP RATE (LB/MIN) | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
|---------|----------|--------|----------|----------|---------------|--------------------|---------|----------|--------------|----------------|---------|
| 1 21 75 | 2025 | 40135A | JPT | 1900 | 45000 | 6500 | 330 | -10 | 300 | N 373000 700 | 60 |
| 1 21 75 | 1753 | 40135A | JPT | 1500 | 40000 | 3000 | 175 | 1 | 300 | N 381400 1051 | 60 |
| 1 21 75 | 2117 | 40135A | JPT | 2100 | 23000 | 6300 | 290 | -30 | 200 | N 402700 9500 | 60 |
| 1 22 75 | 0755 | 40135A | JPT | 2700 | 24000 | 3300 | 360 | -32 | 230 | N 415000 0651 | 66 |
| 1 23 75 | 1735 | 40135A | JPT | 2600 | 43000 | 4500 | 220 | -20 | 200 | N 408300 11652 | 60 |
| 1 24 75 | 0543 | 40135A | JPT | 2000 | 29000 | 1100 | 390 | -40 | 230 | N 405150 14700 | 60 |
| 1 26 75 | 1523 | 40135A | JPT | 2100 | 65000 | 3000 | 350 | -10 | 200 | N 352100 0000 | 60 |
| 1 27 75 | 1720 | 40135A | JPT | 2100 | 18000 | 2200 | 312 | -22 | 270 | N 404100 2900 | 60 |
| 1 27 75 | 2250 | 40135A | JPT | 2000 | 70000 | 6000 | 350 | -30 | 320 | N 344000 7336 | 60 |
| 1 24 75 | 0115 | 40135A | JPT | 1600 | 63000 | 6000 | 250 | -10 | 260 | N 421000 15700 | 60 |
| 1 24 75 | 0220 | 40135A | JPT | 1900 | 14000 | 3200 | 250 | -30 | 200 | N 404300 7352 | 60 |
| 1 24 75 | 1210 | 40135A | JPT | 2500 | 27000 | 2300 | 320 | -20 | 260 | N 406800 14713 | 60 |
| 1 24 75 | 1420 | 40135A | JPT | 2500 | 39000 | 6500 | 300 | -20 | 260 | N 403500 08521 | 60 |
| 1 31 75 | 0519 | 40135A | JPT | 2000 | 43000 | 9200 | 350 | -10 | 250 | N 412100 1000 | 60 |
| 2 3 75 | 1519 | 40135A | JPT | 2400 | 50000 | 4500 | 420 | -24 | 230 | N 403270 10215 | 63 |
| 2 3 75 | 1849 | 40135A | JPT | 1800 | 35000 | 3000 | 300 | -30 | 200 | N 405900 11600 | 63 |
| 2 3 75 | 2200 | 40135A | JPT | 2400 | 107000 | 4300 | 420 | -40 | 240 | N 435510 12733 | 63 |
| 2 3 75 | 2250 | 40135A | JPT | 1400 | 39000 | 5000 | 350 | -10 | 250 | N 425540 12700 | 63 |
| 2 4 75 | 0200 | 40135A | JPT | 1900 | 13000 | 3500 | 400 | -20 | 270 | N 402700 9555 | 63 |
| 2 4 75 | 1241 | 40135A | JPT | 2200 | 130000 | 5000 | 430 | -17 | 230 | N 427500 12634 | 63 |
| 2 4 75 | 0700 | 40135A | JPT | 2000 | 40000 | 7000 | 370 | -16 | 310 | N 400310 11635 | 63 |
| 2 6 75 | 2250 | 40135A | JPT | 2900 | 23000 | 7000 | 430 | -20 | 300 | N 425000 11740 | 63 |
| 2 7 75 | 0531 | 40135A | JPT | 2000 | 30000 | 4200 | 300 | -20 | 200 | N 406400 14714 | 63 |
| 2 7 75 | 0951 | 40135A | JPT | 2200 | 30000 | 6000 | 340 | -24 | 270 | N 404100 00200 | 63 |
| 2 10 75 | 0730 | 40135A | JPT | 1600 | 18000 | 7500 | 320 | -20 | 210 | N 416700 01400 | 63 |
| 2 10 75 | 1349 | 40135A | JPT | 2500 | 35000 | 7100 | 380 | -40 | 320 | N 439400 12139 | 63 |
| 2 11 75 | 0543 | 40135A | JPT | 1900 | 60000 | 2000 | 210 | -10 | 320 | N 404310 07352 | 63 |
| 2 11 75 | 0842 | 40135A | JPT | 2000 | 90000 | 7300 | 260 | -24 | 230 | N 404000 10137 | 63 |
| 2 11 75 | 1144 | 40135A | JPT | 2000 | 37000 | 3000 | 400 | -16 | 180 | N 413340 11034 | 63 |
| 2 12 75 | 1321 | 40135A | JPT | 5000 | 23000 | 2300 | 400 | -34 | 320 | N 404160 06950 | 63 |
| 2 14 75 | 1855 | 40135A | JPT | 2000 | 50000 | 7300 | 410 | -14 | 200 | N 404100 16211 | 63 |
| 2 14 75 | 2155 | 40135A | JPT | 2000 | 18000 | 7300 | 410 | -14 | 200 | N 404100 16211 | 63 |
| 2 14 75 | 2251 | 40135A | JPT | 2500 | 62000 | 6500 | 360 | -30 | 230 | N 439500 11934 | 63 |
| 2 17 75 | 1000 | 40135A | JPT | 1600 | 42000 | 6300 | 260 | -27 | 190 | N 439500 12124 | 63 |
| 2 14 75 | 1515 | 40135A | JPT | 1600 | 10000 | 13000 | 320 | -20 | 230 | N 443200 07022 | 63 |
| 2 14 75 | 1554 | 40135A | JPT | 1500 | 40000 | 3000 | 200 | -20 | 310 | N 403100 11100 | 63 |
| 2 17 75 | 1555 | 40135A | JPT | 1500 | 50000 | 5000 | 140 | -16 | 220 | N 404400 11100 | 63 |
| 2 24 75 | 0322 | 40135A | JPT | 2000 | 22000 | 9000 | 280 | -10 | 200 | N 404100 09700 | 63 |
| 2 24 75 | 0306 | 40135A | JPT | 2000 | 90000 | 9000 | 340 | -10 | 300 | N 404300 11650 | 63 |
| 2 24 75 | 0302 | 40135A | JPT | 2500 | 14000 | 9000 | 230 | -34 | 300 | N 404300 11650 | 63 |
| 3 3 75 | 0215 | 40135A | JPT | 2400 | 26000 | 15000 | 350 | -18 | 330 | N 443260 10236 | 63 |
| 3 3 75 | 1844 | 40135A | JPT | 2000 | 20000 | 6000 | 340 | -35 | 310 | N 437260 12955 | 63 |
| 3 3 75 | 2001 | 40135A | JPT | 6000 | 52000 | 6000 | 360 | -20 | 290 | N 403100 11647 | 60 |
| 3 3 75 | 2041 | 40135A | JPT | 2100 | 20000 | 13000 | 240 | -11 | 190 | N 403700 11100 | 60 |
| 3 6 75 | 2121 | 40135A | JPT | 2800 | 65000 | 7500 | 340 | -24 | 200 | N 404350 11643 | 60 |
| 3 7 75 | 0505 | 40135A | JPT | 2400 | 37000 | 7000 | 350 | -20 | 250 | N 426520 12730 | 60 |
| 3 7 75 | 0540 | 40135A | JPT | 3300 | 50000 | 2000 | 250 | -24 | 230 | N 404350 11643 | 60 |
| 3 11 75 | 1234 | 40135A | JPT | 2200 | 30000 | 9000 | 290 | -25 | 310 | N 405260 01193 | 60 |
| 3 11 75 | 1255 | 40135A | JPT | 2300 | 21000 | 5000 | 350 | -23 | 150 | N 436450 11923 | 60 |
| 3 11 75 | 1251 | 40135A | JPT | 2000 | 35000 | 6500 | 370 | -13 | 270 | N 432250 09330 | 60 |

(*) FUEL IS JP-4 IF ENTRY BLANK

COORDINATES ARE CONTINUED

TABLE 1. FUEL DUMPS BY COMMAND (Continued)

| COMMAND | DATE | TIME | TYPE | ACFT | FULL | ALT | POUNDS | DUMP RATE | AIR | WIND | COORDINATES | LOG |
|---------|---------|------|------|--------|------|--------|--------|-----------|------|---------|--------------|-----|
| SAL | | (Z) | (Z) | (*) | K FT | LB/MIN | DUMPS | SPD | TEMP | DIR/SPD | | NO. |
| | 3 12 75 | 103 | | KC135 | 24.0 | 7200 | 7200 | 200 | -9 | 030 15 | N04510M11705 | 04 |
| | 3 13 75 | 038 | | KC135A | 12.0 | 7200 | 7200 | 295 | 10 | 240 10 | N04322M11004 | 04 |
| | 3 13 75 | 0529 | | KC135A | 35.0 | 2100 | 2100 | 430 | -33 | 250 40 | N04350M07021 | 04 |
| | 3 13 75 | 2229 | | KC135A | 20.0 | 3000 | 3000 | 345 | -22 | 250 120 | N04340M07004 | 04 |
| | 3 14 75 | 0356 | | KC135A | 25.0 | 6000 | 6000 | 360 | -10 | 290 85 | N02639E12726 | 04 |
| | 3 14 75 | 0518 | | KC135A | 20.0 | 6600 | 6600 | 470 | | | N03753M12000 | 04 |
| | 3 17 75 | 0243 | | KC135A | 16.0 | 3700 | 3700 | 200 | -16 | 270 35 | N02644E12720 | 04 |
| | 3 17 75 | 0674 | | KC135A | 5 | 3500 | 3500 | 300 | 260 | 150 10 | N01210E11055 | 04 |
| | 3 14 75 | 0328 | | KC135A | 24.0 | 3700 | 3700 | 350 | -37 | 205 55 | N04030M11651 | 04 |
| | 3 14 75 | 1132 | | KC135A | 1.7 | 9000 | 9000 | 350 | -20 | 260 20 | N04321M06950 | 04 |
| | 3 14 75 | 2130 | | F311A | 1.4 | 2300 | 2300 | 320 | -11 | 269 11 | N04333M07110 | 04 |
| | 3 14 75 | 1945 | | KC135A | 22.0 | 4500 | 4500 | 300 | -25 | 290 12 | N03730M07000 | 04 |
| | 3 20 75 | 1729 | | F311A | 5.0 | 2200 | 2200 | 300 | 5 | 230 15 | N04319M07010 | 04 |
| | 3 27 75 | 2131 | | KC135 | 3 | 5000 | 5000 | 270 | -14 | 220 10 | N02721M15239 | 06 |
| | 3 25 75 | 2055 | | KC135 | 10.0 | 5000 | 5000 | 300 | -20 | 230 10 | N02900M15000 | 06 |
| | 3 26 75 | 1509 | | KC135A | 20.0 | 12000 | 12000 | 330 | -26 | 325 30 | N01509M11648 | 04 |
| | 3 27 75 | 1649 | | KC135A | 20.0 | 5000 | 5000 | 370 | -14 | 240 50 | N03220M09250 | 04 |
| | 3 27 75 | 2740 | | KC135A | 20.0 | 6300 | 6300 | 360 | -10 | 203 40 | N03302M00244 | 04 |
| | 3 24 75 | 035 | | KC135 | 20.0 | 5000 | 5000 | 347 | -2 | 350 75 | N03053M12545 | 04 |
| | 3 23 75 | 0240 | | KC135 | 27.0 | 0800 | 0800 | 270 | -20 | 225 75 | N02182M15003 | 06 |
| | 3 31 75 | 0045 | | KC135 | 27.5 | 2500 | 2500 | 260 | -16 | 260 50 | N02300M16400 | 06 |
| | 3 31 75 | 0045 | | KC135 | 27.0 | 6500 | 6500 | 270 | -16 | 260 50 | N02000M16400 | 06 |

CUMULATIVE TOTALS: 19 DUMPS 761700 LBS

| COMMAND | DATE | TIME | TYPE | ACFT | FUEL | ALT | POUNDS | DUMP RATE | AIR | WIND | COORDINATES | LOG |
|---------|----------|------|------|-------|------|--------|--------|-----------|------|---------|--------------|-----|
| TAL | | (Z) | (Z) | (*) | K FT | LB/MIN | DUMPS | SPD | TEMP | DIR/SPD | | NO. |
| | 10 2 74 | 1710 | | F111F | 15.0 | 1400 | 1400 | 300 | 15 | 030 10 | N04252M11606 | 44 |
| | 10 1 74 | 2100 | | F111F | 15.0 | 1000 | 1000 | 360 | | | N04252M11606 | 43 |
| | 10 11 74 | 0345 | | F111F | 15.0 | 900 | 900 | 350 | -160 | 290 10 | N04320M11630 | 42 |
| | 10 19 74 | 1300 | | F111F | 9.0 | 1500 | 1500 | 250 | 40F | 099 05 | N04251M11606 | 42 |
| | 10 19 74 | 0219 | | F111F | 25.0 | 500 | 500 | 420 | -100 | 270 20 | N04296M11752 | 42 |
| | 10 17 74 | 0443 | | F111F | 10.0 | 3000 | 3000 | 250 | -100 | 270 10 | N04251M11606 | 42 |
| | 10 21 74 | 0659 | | F111F | 11.0 | 1000 | 1000 | 350 | -6 | 270 25 | 190705 731 | 42 |
| | 10 22 74 | 0253 | | F111F | 17.0 | 1000 | 1000 | 300 | -100 | 280 06 | N04200M11647 | 42 |
| | 10 23 74 | 0100 | | F111F | 16.0 | 500 | 500 | 380 | -100 | 273 10 | N04251M11606 | 42 |
| | 10 23 74 | 1300 | | F111F | 15.0 | 950 | 950 | 300 | 13 | 090 15 | N04252M11606 | 44 |
| | 10 24 74 | 1245 | | F111F | 10.0 | 1000 | 1000 | 275 | -100 | 273 10 | N04200M11606 | 42 |
| | 11 1 74 | 1700 | | F111F | 15.0 | 1000 | 1000 | 300 | -100 | 270 10 | N04252M11606 | 54 |
| | 11 12 74 | 0243 | | F111A | 11.0 | 5000 | 5000 | 300 | -2 | | N03630M11330 | 67 |
| | 11 15 74 | 1900 | | F111A | 11.0 | 1000 | 1000 | 300 | 150 | 320 20 | N04250M11551 | 54 |
| | 11 15 74 | 0235 | | F111F | 15.0 | 5000 | 5000 | 350 | -230 | 220 30 | N04260M11751 | 54 |
| | 11 19 74 | 0025 | | F111F | 17.5 | 1200 | 1200 | 460 | -230 | 300 20 | N04300M11554 | 54 |
| | 11 27 74 | 1414 | | F111F | 15.0 | 900 | 900 | 350 | -200 | 300 20 | | 54 |

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TABLE I. FUEL DUMPS BY COMMAND (Continued)

| COMMAND | DATE | TIME | AGFT | FUEL | ALT | POLNJS | JUMP RATE | AIR SPD | AIR TEMP | WIND DIR/SPO | COORDINATES | LOG NO. |
|---------|----------|------|-------|------|------|--------|-----------|---------|----------|--------------|------------------|---------|
| | | (Z) | | (*) | K FT | JUMPED | LB/MIN | | TEMP | DIR/SPO | | |
| | 11 23 74 | 147J | F111F | | 14.0 | 500J | 2300 | 350 | -20C | 320 25 | M04200M11534 | 54 |
| | 11 27 74 | 1620 | F111A | | 10.0 | 1200J | 2300 | 300 | -20 | 270 25 | LSY 365/30 | 56 |
| | 11 27 74 | 0845 | F111F | | 10.0 | 300J | 2500 | 300 | -20 | | M04252M11086 | 54 |
| | 12 07 74 | 0850 | F111F | | 10.0 | 300J | 2300 | 250 | -10C | 30 10 | M04251M11086 | 55 |
| | 12 10 74 | 1330 | F111J | | 10.0 | 650J | 2300 | 300 | -10C | 330 30 | M03455M10303 | 55 |
| | 12 10 74 | 1642 | F111A | | 10.5 | 300J | 5500 | 300 | -15C | 270 5 | M03630M11510 | 69 |
| | 12 12 74 | 1713 | F111A | | 12.0 | 1300J | 5500 | 330 | 0C | 270 10 | M03731M11514 | 69 |
| | 12 14 74 | 0900 | F111J | | 10.0 | 1100J | 2000 | 400 | 0C | 300 5 | M03631M10320 | 55 |
| | 12 18 74 | 1700 | F111A | | 13.5 | 450J | 5500 | 350 | -15C | 320 20 | M03630M11559 | 69 |
| | 12 18 74 | 2125 | F111J | | 12.0 | 1000J | 2300 | 300 | -5 | 270 20 | M03431M10319 | 55 |
| | 12 22 74 | 1800 | F111A | | 12.5 | 500J | 5500 | 300 | -15C | 300 10 | M03730M11450 | 69 |
| | 12 23 74 | 420 | F111F | | 16.0 | 400J | 2300 | 300 | -10C | 300 10 | M04251M11086 | 71 |
| | 12 23 74 | 1740 | F111J | | 10.0 | 700J | 2300 | 300 | 0C | 20 20 | M03423M10330 | 55 |
| | 12 24 74 | 0315 | F111J | | 10.0 | 400J | 2300 | 250 | 11C | 30 25 | M03446M10330 | 55 |
| | 12 24 74 | 0315 | F111J | | 10.0 | 400J | 2300 | 250 | 11C | 30 25 | M03446M10330 | 55 |
| | 12 30 74 | 0330 | F111J | | 14.1 | 200J | 2300 | 350 | -15 | 210 25 | M03446M10320 | 55 |
| | 12 30 74 | 0330 | F111J | | 14.1 | 200J | 2300 | 350 | -15 | 210 25 | TACAN ----- 03 | 55 |
| | 1 1 75 | 0210 | F111F | | 13.0 | 600J | 2300 | 250 | -15 | 330 12 | GCA COMMAND | 55 |
| | 1 1 75 | 0300 | F111J | | 11.0 | 650J | 2300 | 430 | 25F | 300 15 | M04243M11534 | 72 |
| | 1 1 75 | 0540 | F111J | | 13.0 | 1000J | 2300 | 350 | 25F | 300 50 | M03500M10330 | 80 |
| | 1 1 75 | 0430 | F111 | | 10.0 | 400J | 5500 | 300 | -10C | 270 10 | 352/11-CHAM 104 | 70 |
| | 1 1 75 | 0430 | F111 | | 10.0 | 250J | 2300 | 200 | 32F | 270 30 | CVS 030/15-18 | 80 |
| | 1 1 75 | 0700 | F111F | | 5.0 | 400J | 2300 | 300 | | 310 20 | M04230M11556 | 72 |
| | 1 1 75 | 0850 | F111F | | 12.0 | 1600J | 2300 | 300 | 30F | 860 20 | RANCHVILLE | 79 |
| | 1 1 75 | 1915 | F111J | | 13.5 | 700J | 2300 | 350 | 10C | 220 10 | M03423M10330 | 79 |
| | 1 17 75 | 1945 | F111J | | 11.0 | 1200J | 2300 | 350 | -2C | 010 27 | M03429M10319 | 77 |
| | 1 21 75 | 1115 | F111J | | 9.0 | 200J | 5300 | 250 | -1C | 030 50 | M03425M10300 | 77 |
| | 1 23 75 | 0230 | F111F | | 15.0 | 1200J | 2300 | 400 | -2C | 307 67 | M04252M11086 | 72 |
| | 1 27 75 | 0005 | F111 | | 13.0 | 1100J | 2300 | 300 | 22F | 240 50 | CVS 005/70-FXB | 80 |
| | 1 27 75 | 1157 | F111F | | 9.0 | 950J | 2300 | 300 | | 310 20 | M04230M11556 | 72 |
| | 1 24 75 | 0025 | F111F | | 11.0 | 1000J | 2300 | 300 | -2 | 305 04 | M04230M11556 | 72 |
| | 1 24 75 | 1640 | F111F | | 10.0 | 1700J | 2300 | 350 | -15C | 210 30 | M04251M11086 | 72 |
| | 1 24 75 | 0555 | F111A | | 13.5 | 1200J | 2300 | 415 | -2C | 100 30 | M03430M11513 | 68 |
| | 2 24 75 | 1630 | F111J | | 5.0 | 1600J | 2300 | 260 | | | TEXACO VORTAC | 77 |
| | 2 5 75 | 0830 | F111 | | 19.0 | 1400J | 2300 | 400 | | | M04251M11086 | 73 |
| | 2 5 75 | 0500 | F111F | | 12.0 | 1200J | 5500 | 320 | | 30 10 | CVS 352/15 | 74 |
| | 2 5 75 | 0650 | F111 | | 10.5 | 1000J | 1000 | 310 | 10F | 300 20 | M04251M11601 | 73 |
| | 2 5 75 | 0340 | F111F | | 15.0 | 1200J | 5500 | 420 | 1C | | CVS 265/33 | 74 |
| | 2 17 75 | 0240 | F111 | | 13.0 | 500J | 2300 | 400 | | | M04240M11550 | 73 |
| | 2 17 75 | 0240 | F111F | | 15.0 | 400J | 5500 | 430 | | | M04240M11550 | 73 |
| | 2 17 75 | 1940 | F111 | | 16.0 | 1200J | 2300 | 300 | -8C | 310 25 | M0328/20 W102/06 | 76 |
| | 2 20 75 | 0445 | F111 | | 11.0 | 1500J | 2300 | 400 | 57 | 240 26 | CVS 352/06 | 74 |
| | 2 20 75 | 0410 | F111A | | 6.0 | 500J | 1500 | 260 | | 0 0 | 10MM WEST MELLIS | 87 |
| | 2 20 75 | 0672 | FWE | | 6.0 | 1500 | 500 | 250 | 60F | 290 18 | M02516M00009 | 70 |
| | 2 20 75 | 0400 | F111J | | 15.0 | 1200J | 2300 | 300 | 50F | 090 10 | M03400M10351 | 75 |
| | 2 25 75 | 0510 | F111F | | 15.0 | 1200J | 5500 | 400 | | | M04251M11086 | 73 |
| | 2 27 75 | 0545 | F111A | | 13.0 | 900J | 3500 | 300 | | | 35MM NE MELLIS | 87 |
| | 2 27 75 | 0230 | F111A | | 18.0 | 400J | 2300 | 350 | 12C | 240 34 | 15-20MI NW CVS | 74 |
| | 3 4 75 | 0830 | F111A | | 17.0 | 300J | 3500 | 300 | | 255 40 | 35MM NW MELLIS | 87 |
| | 3 4 75 | 0400 | F111F | | 16.0 | 700J | 2300 | 400 | -25C | 240 30 | M04250M11007 | 90 |
| | 3 5 75 | 0210 | F111F | | 11.0 | 900J | 5500 | 400 | 36F | 200 10 | M04310M11030 | 90 |

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TABLE 1. FUEL DUMPS BY COMMAND (Concluded)

| DATE | TIME (Z) | ACFT | FUEL (%) | ALT (FT) | POUNDS DUMPED | DUMP RATE (LB/MIN) | AIR SPU | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
|-----------------|----------|-------|----------|----------|---------------|--------------------|-------------|----------|--------------|----------------|---------|
| 3 10 75 | 1910 | F111A | 10.0 | 10000 | 5000 | 2300 | 330 | -15C | 290 40 | M03455M18303 | 92 |
| 3 14 75 | 2030 | F111A | 16.0 | 5000 | 5000 | 3500 | 300 | 9 | 0 | ZOMME WELLSIS | 87 |
| 3 18 75 | 0250 | F111F | 15.0 | 7000 | 7000 | 5500 | 350 | -20C | 210 50 | M04250M1606 | 90 |
| 3 21 75 | 1245 | F111F | 15.0 | 4000 | 2300 | 2300 | 400 | -28 | 270 30 | M04250M1610 | 98 |
| 3 26 75 | 1345 | F111J | 9.5 | 3800 | 2300 | 2300 | 350 | -14C | 200 30 | M03438M18336 | 92 |
| 3 27 75 | 1530 | F111 | 9.0 | 16000 | 2300 | 2300 | 400 | -4C | 290 50 | M03605M1425 | 89 |
| 3 28 75 | 1900 | F111 | 15.0 | 1800 | 1800 | 1800 | 420 | -10C | 265 45 | M03908M1420 | 86 |
| 3 31 75 | 1555 | F111A | 6.5 | 12000 | 3500 | 3500 | 300 | 6 | 0 | 30MM W WELLSIS | 87 |
| COMMAND TOTALS: | | | | | 76 DUMPS | 523000 LBS | | | | | |
| OVERALL TOTALS: | | | | | 305 DUMPS | | 8973870 LBS | | | | |

(*) FUEL IS JP-8 IF ENTRY BLANK

NOTES TO TABLE 1

The table lists all fuel dumps between 1 October 1974 and 31 March 1975 for which reports were received at AFWL. Column headings are mostly self-evident. LOG NO. is an internal AFWL accounting number referring back to the original dump report sheet. Airspeed and wind speed are in knots. Air temperature is specified to be degrees Centigrade (C) or Fahrenheit (F) when the original report so designates; otherwise, the units of temperature are uncertain. Fuel type 115/145 is represented in the table as 115.

TABLE 2. SUMMARY OF FUEL DUMPS BY COMMAND/MONTH

| <u>Command</u> | <u>Month/Year</u> | <u>Number of Dumps</u> | <u>Total Pounds Dumped</u> |
|----------------|-------------------|----------------------------|------------------------------------|
| ADC | 10/74 | 1 | 7,000 |
| | 11/74 | 2 | 33,500 |
| | 12/74 | 2 | 17,000 |
| | 1/75 | 3 | 45,000 |
| | 2/75 | 2 | 36,820 |
| | 3/75 | <u>3</u> | <u>51,700</u> |
| | TOTAL | 13 | 191,020 |
| AFLC | 1/75 | <u>1</u> | <u>2,000</u> |
| | | TOTAL | 1 2,000 |
| AFSC | 10/74 | 2 | 46,300 |
| | 12/74 | 5 | 54,150 |
| | 1/75 | 4 | 200 |
| | 2/75 | <u>2</u> | <u>3,500</u> |
| | | TOTAL | 13 104,150 |
| MAC | 10/74 | 1 | 1,600 |
| | 11/74 | 3 | 198,600 |
| | 2/75 | 1 | 30,000 |
| | 3/75 | <u>1</u> | <u>500</u> |
| | | TOTAL | 6 230,700 |
| PACAF | 12/74 | <u>1</u> | <u>3,000</u> |
| | | TOTAL | 1 3,000 |
| SAC | 10/74 | 39 | 1,151,000 |
| | 11/74 | 39 | 1,739,000 |
| | 12/74 | 26 | 983,000 |
| | 1/75 | 32 | 1,268,000 |
| | 2/75 | 27 | 1,104,000 |
| | 3/75 | <u>32</u> | <u>1,572,000</u> |
| | | TOTAL | 195 7,817,000 |

TABLE 2. SUMMARY OF FUEL DUMPS BY COMMAND/MONTH (Concluded)

| <u>Command</u> | <u>Month/Year</u> | <u>Number of Dumps</u> | <u>Total Pounds Dumped</u> |
|--------------------------|-------------------|----------------------------|------------------------------------|
| TAC | 10/74 | 11 | 105,300 |
| | 11/74 | 9 | 83,000 |
| | 12/74 | 14 | 83,000 |
| | 1/75 | 17 | 150,600 |
| | 2/75 | 14 | 128,500 |
| | 3/75 | <u>11</u> | <u>72,600</u> |
| | TOTAL | 76 | 623,000 |
| OVERALL AIR FORCE TOTALS | | 305 | 8,970,870 |

TABLE 3. FUEL DUMPS BY AIRCRAFT TYPE

| TYPE: U2 | DATE | TIME (Z) | CRMJ | 4UJEL | FUEL (%) | ALT K FT | POUNDS JUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
|--------------|----------|----------|------|-------|----------|----------|---------------|------------------|---------|----------|--------------|-------------|---------|
| | 10 10 74 | 1035 | SAC | JPT | 15.0 | 3000 | 500 | 100 | -5 | 220 20 | M03143M11103 | 66 | |
| | 11 10 74 | 1015 | SAC | JPT | 16.0 | 3000 | 500 | 100 | -4 | 220 20 | M03143M11103 | 66 | |
| | 10 10 74 | 1030 | SAC | JPT | 16.0 | 3000 | 500 | 100 | -4 | 220 20 | M03143M11103 | 66 | |
| | 12 0 74 | 1540 | SAC | JPT | 19.0 | 5000 | 2000 | 170 | -10 | 230 25 | M03150M11100 | 52 | |
| | 12 0 74 | 1635 | SAC | JPT | 20.0 | 10000 | 3000 | 170 | 15 | 310 65 | M03150M11100 | 52 | |
| | 12 10 74 | 1545 | SAC | JPT | 17.0 | 3000 | 1000 | 420 | -60 | 220 10 | M03150M11100 | 52 | |
| | 1 21 75 | 1753 | SAC | JPT | 15.0 | 4000 | 300 | 170 | 1 | 0 0 | M03140M11051 | 60 | |
| | 2 13 75 | 1553 | SAC | JPT | 15.0 | 6000 | 300 | 200 | -12 | 330 15 | M03130M11100 | 63 | |
| | 2 21 75 | 1545 | SAC | JPT | 1.5 | 5000 | 500 | 190 | -16 | 250 50 | M03143M11103 | 63 | |
| TYPE TOTALS: | | | | | | | 3 DUMPS | 42000 LBS | | | | | |

| TYPE: M43 | DATE | TIME (Z) | CRMJ | 4UJEL | FUEL (%) | ALT K FT | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
|--------------|---------|----------|------|-------|----------|----------|---------------|------------------|---------|----------|--------------|-------------|---------|
| | 10 0 74 | 1545 | MAC | E | 1.5 | 1600 | 000 | 90 | 260 | 330 5 | M00910M07957 | 39 | |
| | 3 23 75 | 1115 | MAC | E | .2 | 500 | 000 | 70 | 40 | 260 5 | M03031M12203 | 05 | |
| TYPE TOTALS: | | | | | | | 2 DUMPS | 2100 LBS | | | | | |

| TYPE: F4 | DATE | TIME (Z) | CRMJ | 4UJEL | FUEL (%) | ALT K FT | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
|--------------|----------|----------|------|-------|----------|----------|---------------|------------------|---------|----------|--------------|-------------|---------|
| | 10 10 74 | 1500 | AFSC | | 20.0 | 300 | 650 | 430 | -120 | 360 10 | M03300M10620 | 36 | |
| | 12 0 74 | 2120 | AFSC | U | 15.0 | 50 | 650 | 350 | 50 | 270 20 | M03440M10632 | 57 | |
| | 12 11 74 | 1140 | AFSC | 0 | 12.0 | 50 | 650 | 350 | 50 | 270 15 | M03440M10632 | 57 | |
| | 12 17 74 | 1645 | AFSC | 0 | 5.5 | 4000 | 650 | 350 | 20 | 270 20 | M03300M10620 | 57 | |
| | 12 18 74 | 1946 | AFSC | 0 | 15.0 | 50 | 650 | 350 | 30F | 270 35 | M03440M10632 | 57 | |
| | 1 10 75 | 1900 | AFSC | 0 | 12.0 | 50 | 650 | 250 | 0F | 330 50 | M03340M10630 | 57 | |
| | 1 14 75 | 1915 | AFSC | L | 15.0 | 50 | 650 | 350 | 0F | 270 30 | M03440M10630 | 57 | |
| | 1 21 75 | 2000 | AFSC | C | 11.0 | 50 | 650 | 550 | -5 | 330 40 | M03440M10630 | 57 | |
| | 1 27 75 | 1015 | AFSC | 0 | 11.0 | 50 | 650 | 450 | 3F | 024 30 | M03450M10645 | 57 | |
| | 2 4 75 | 1800 | AFSC | 0 | .5 | 1500 | 600 | 450 | 60F | 290 10 | M03314M11611 | 61 | |
| | 2 25 75 | 0002 | TAC | E | 6.0 | 1500 | 400 | 250 | | | M02516M00009 | 70 | |
| TYPE TOTALS: | | | | | | | 11 DUMPS | 76500 LBS | | | | | |

TABLE 3. FUEL DUMPS BY AIRCRAFT TYPE (Continued)

| TYPE: M139 | | (*) FUEL IS JP-4 IF ENTRY BLANK | | | | | | | | | | |
|------------|----------|---------------------------------|-------|----------|----------|---------------|--------------------|---------|----------|--------------|------------------|---------|
| DATE | TIME (Z) | CMD | MODEL | FUEL (%) | ALT (FT) | POUNDS JUMPED | DUMP RATE (LB/MIN) | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
| 2 13 75 | 1410 | AFSC | A | 15.0 | 1500 | 2000 | 1.00 | 180 | 43F | 360 15 | M03029000632 | 62 |
| | | TYPE TOTALS: 1 JUMPS 2000 LBS | | | | | | | | | | |
| TYPE: T34 | | (*) FUEL IS JP-4 IF ENTRY BLANK | | | | | | | | | | |
| DATE | TIME (Z) | CMD | MODEL | FUEL (%) | ALT (FT) | POUNDS JUMPED | DUMP RATE (LB/MIN) | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
| 1 22 75 | 1315 | AFSC | | 3.5 | 3500 | 2000 | 1.00 | 175 | 12C | 241 10 | MACONRAD08-280ME | 59 |
| | | TYPE TOTALS: 1 JUMPS 2000 LBS | | | | | | | | | | |
| TYPE: F141 | | (*) FUEL IS JP-4 IF ENTRY BLANK | | | | | | | | | | |
| DATE | TIME (Z) | CMD | MODEL | FUEL (%) | ALT (FT) | POUNDS JUMPED | DUMP RATE (LB/MIN) | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
| 10 2 74 | 1738 | TAC | F | 15.0 | 1500 | 1400 | 2300 | 300 | 15 | 000 10 | M04252M11606 | 44 |
| 11 4 74 | 2130 | TAC | F | 15.0 | 1000 | 1000 | 2500 | 360 | | | M04252M11606 | 43 |
| 10 11 74 | 0045 | TAC | F | 15.0 | 9000 | 9000 | 2300 | 350 | -14C | 290 10 | M04320M11630 | 42 |
| 10 12 74 | 1000 | TAC | F | 9.0 | 1500 | 1500 | 2500 | 250 | 46F | 094 05 | M04251M11606 | 42 |
| 10 17 74 | 0215 | TAC | F | 25.0 | 5000 | 5000 | 2300 | 420 | -18C | 270 20 | M04230M11752 | 42 |
| 10 17 74 | 0643 | TAC | F | 18.0 | 3000 | 3000 | 2300 | 250 | -10C | 270 10 | M04251M11606 | 42 |
| 10 21 74 | 0055 | TAC | F | 11.0 | 1000 | 1000 | 2300 | 350 | -6 | 270 25 | 1907US 731 | 42 |
| 10 22 74 | 0253 | TAC | F | 17.0 | 1000 | 1000 | 2300 | 300 | -10C | 200 06 | M04200M11647 | 42 |
| 10 23 74 | 0130 | TAC | F | 16.0 | 5000 | 5000 | 2300 | 300 | -10C | 270 10 | M04251M11606 | 42 |
| 10 23 74 | 0130 | TAC | F | 15.0 | 9500 | 9500 | 2300 | 300 | 13 | 090 15 | M04252M11606 | 44 |
| 10 24 74 | 1245 | TAC | F | 10.0 | 1000 | 1000 | 2300 | 275 | -10C | 270 10 | M04200M11606 | 42 |
| 11 3 74 | 1749 | TAC | F | 15.0 | 13000 | 13000 | 2300 | 300 | -10C | 270 10 | M04252M11606 | 54 |
| 11 12 74 | 0640 | TAC | A | 11.0 | 5000 | 5000 | 5000 | 300 | -2 | | M03630M11530 | 67 |
| 11 18 74 | 1926 | TAC | A | 11.0 | 19000 | 19000 | 2300 | 350 | 15C | 5 | M03680M11558 | 66 |
| 11 19 74 | 0235 | TAC | F | 10.0 | 5000 | 5000 | 2300 | 350 | | 320 20 | M04254M11551 | 54 |
| 11 19 74 | 0028 | TAC | F | 17.5 | 12000 | 12000 | 2300 | 460 | -23C | 220 30 | M04240M11751 | 54 |
| 11 22 74 | 1914 | TAC | F | 15.0 | 9000 | 9000 | 2300 | 350 | -20C | 300 20 | M04300M11554 | 54 |
| 11 23 74 | 1940 | TAC | F | 14.0 | 5000 | 5000 | 4300 | 350 | -20C | 320 25 | M04200M11534 | 54 |
| 11 29 74 | 1630 | TAC | A | 18.0 | 12000 | 12000 | 2300 | 300 | -20 | 270 25 | LSV 345730 | 66 |
| 11 27 74 | 0045 | TAC | F | 18.0 | 3000 | 3000 | 2300 | 300 | | | M04252M11606 | 54 |
| 12 6 74 | 0253 | TAC | F | 18.0 | 3000 | 3000 | 2300 | 300 | -10C | 90 10 | M04251M11606 | 71 |
| 12 13 74 | 0340 | TAC | D | 17.0 | 8500 | 8500 | 2300 | 300 | -16 | 330 30 | M03455M10303 | 55 |
| 12 13 74 | 1040 | TAC | A | 18.5 | 3000 | 3000 | 5500 | 300 | -15C | 270 5 | M03630M11510 | 69 |
| 12 12 74 | 1710 | TAC | A | 12.6 | 13000 | 13000 | 5500 | 330 | | 270 10 | M03731M11514 | 69 |
| 12 12 74 | 1940 | TAC | J | 16.0 | 11000 | 11000 | 2000 | 400 | 0C | 300 5 | M03431M10320 | 55 |
| 12 18 74 | 1700 | TAC | A | 13.5 | 4500 | 4500 | 5500 | 350 | -15C | 320 20 | M03630M11559 | 69 |
| 12 18 74 | 2125 | TAC | D | 12.0 | 10000 | 10000 | 2300 | 300 | -5 | 270 20 | M03431M10319 | 55 |
| 12 22 74 | 1840 | TAC | A | 12.5 | 5000 | 5000 | 5500 | 300 | -15C | 300 10 | M03730M11558 | 69 |
| 12 23 74 | 1420 | TAC | F | 14.0 | 4000 | 4000 | 2300 | 300 | -10C | 300 10 | M04251M11606 | 71 |

TABLE 3. FUEL DUMPS BY AIRCRAFT TYPE (Continued)

*FUEL IS JP-6 IF ENTRY BLANK

| TYPE | FILE | (CONTINUED) | JATE | TIME (Z) | CMJ | MODEL | FUEL (°) | ALT K FT | POUNDS DUMPED | JUMP RATE LB/HR | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. | | |
|--------------|------|-------------|------|-------------|-----|-------|-------------|-------------|------------------|--------------------|------------|-------------|--------------------|-------------|------------|--------|-----|
| 12 | 23 | 74 | TAC | 1730 | C | 18-0 | 7000 | 2300 | 300 | 0C | 20 | 20 | M03423M10330 | 55 | | | |
| 12 | 24 | 74 | TAC | 4315 | D | 18-0 | 4000 | 2300 | 250 | 11C | 30 | 25 | M03648M10320 | 55 | | | |
| 12 | 24 | 74 | TAC | 4315 | D | 18-0 | 4000 | 2300 | 250 | 11C | 30 | 25 | M03648M10320 | 55 | | | |
| 12 | 30 | 74 | TAC | 2330 | D | 14-0 | 2000 | 2300 | 350 | -15 | 210 | 25 | TACAN ----- 03 | 55 | | | |
| 12 | 30 | 74 | TAC | 2315 | D | 14-0 | 2000 | 2300 | 250 | -15 | 210 | 25 | GCA DOMMIMO | 55 | | | |
| 1 | 3 | 75 | TAC | 2210 | F | 5-0 | 6000 | 2300 | 430 | -15 | 330 | 12 | M04243M11530 | 72 | | | |
| 1 | 3 | 75 | TAC | 0100 | F | 13-0 | 6500 | 2300 | 275 | 25F | 270 | 15 | CVS 352715 | 06 | | | |
| 1 | 7 | 75 | FAL | 0330 | D | 11-0 | 10000 | 2300 | 350 | 20F | 300 | 50 | M03500M10330 | 79 | | | |
| 1 | 7 | 75 | TAC | 0400 | D | 13-0 | 4000 | 5500 | 300 | -10C | 270 | 10 | 352711-CHAN 104 | 70 | | | |
| 1 | 7 | 75 | TAC | 0430 | TAC | 5-0 | 2500 | 2300 | 200 | 32F | 270 | 30 | CVS 030715-10 | 00 | | | |
| 1 | 9 | 75 | TAC | 0220 | TAC | 12-0 | 4000 | 2300 | 300 | 30F | 310 | 20 | M04230M11556 | 72 | | | |
| 1 | 14 | 75 | TAC | 4030 | TAC | 12-0 | 16000 | 2300 | 300 | 30F | 060 | 20 | RAMCHVILLE | 79 | | | |
| 1 | 15 | 75 | TAL | 1915 | D | 13-5 | 7000 | 2300 | 350 | -2C | 220 | 10 | M03423M10330 | 79 | | | |
| 1 | 17 | 75 | TAC | 1940 | D | 11-0 | 12000 | 2300 | 350 | -2C | 010 | 27 | M03629M10319 | 77 | | | |
| 1 | 21 | 75 | TAC | 2115 | C | 6-0 | 2000 | 5000 | 250 | -1C | 030 | 50 | M03425M10300 | 77 | | | |
| 1 | 23 | 75 | TAC | 0230 | F | 15-0 | 12000 | 2300 | 400 | -2C | 307 | 67 | M04252M11606 | 72 | | | |
| 1 | 27 | 75 | TAC | 0620 | TAC | 13-0 | 1100 | 2300 | 300 | 22F | 240 | 50 | CVS 005470-7K0 | 00 | | | |
| 1 | 27 | 75 | TAC | 1130 | F | 9-0 | 9500 | 2300 | 300 | 22F | 310 | 20 | M04230M11556 | 72 | | | |
| 1 | 24 | 75 | TAC | 4020 | F | 11-0 | 10000 | 2300 | 300 | -2 | 305 | 04 | M04230M11556 | 72 | | | |
| 1 | 24 | 75 | TAC | 1800 | F | 10-0 | 17000 | 2300 | 350 | -2 | 305 | 04 | M04230M11556 | 72 | | | |
| 1 | 24 | 75 | TAC | 2055 | TAC | 13-5 | 13000 | 2300 | 415 | -15C | 210 | 30 | M04251M11606 | 72 | | | |
| 1 | 24 | 75 | TAC | 1650 | TAC | 5-0 | 16000 | 2300 | 200 | -15C | 210 | 30 | M03620M11513 | 60 | | | |
| 2 | 5 | 75 | TAC | 1030 | D | 19-0 | 14000 | 2300 | 400 | -2C | 100 | 30 | M03634M10420 | 77 | | | |
| 2 | 0 | 75 | TAC | 0500 | F | 12-0 | 12000 | 5500 | 320 | -2C | 100 | 30 | TEXACO VORTAC | 74 | | | |
| 2 | 0 | 75 | TAL | 1650 | F | 10-5 | 10000 | 1000 | 310 | 10F | 30 | 10 | M04251M11606 | 73 | | | |
| 2 | 0 | 75 | TAC | 2340 | F | 15-0 | 12000 | 1000 | 420 | 10F | 30 | 10 | CVS 352715 | 74 | | | |
| 2 | 10 | 75 | TAC | 0410 | F | 13-0 | 5000 | 2100 | 400 | 1C | 300 | 20 | M04251M11601 | 73 | | | |
| 2 | 11 | 75 | TAC | 0200 | F | 15-0 | 4000 | 2100 | 400 | 1C | 300 | 20 | CVS 265433 | 74 | | | |
| 2 | 12 | 75 | TAC | 1930 | F | 14-0 | 12000 | 2300 | 430 | -0C | 310 | 25 | M04240M11550 | 73 | | | |
| 2 | 20 | 75 | TAC | 1915 | TAC | 11-0 | 15000 | 2300 | 300 | -0C | 240 | 24 | AN4320/20 M102706 | 76 | | | |
| 2 | 24 | 75 | TAC | 0100 | A | 6-0 | 5000 | 4500 | 260 | 57 | C | 0 | CVS 352700 M102706 | 74 | | | |
| 2 | 24 | 75 | TAC | 1115 | D | 15-0 | 13000 | 4300 | 300 | 50F | 090 | 10 | 10MM WEST MELLIS | 07 | | | |
| 2 | 25 | 75 | TAC | 2000 | F | 15-0 | 12000 | 4300 | 400 | 50F | 090 | 10 | M03400M10351 | 75 | | | |
| 2 | 26 | 75 | TAL | 0300 | A | 13-0 | 9000 | 3500 | 300 | 50F | 090 | 10 | M04251M11606 | 73 | | | |
| 2 | 27 | 75 | TAC | 2230 | TAC | 18-0 | 4000 | 3500 | 300 | 12C | 350 | 20 | 35MM NE MELLIS | 07 | | | |
| 3 | 4 | 75 | TAC | 1630 | TAC | 17-0 | 3000 | 2300 | 350 | 12C | 240 | 34 | 15-20MI NW CVS | 74 | | | |
| 3 | 4 | 75 | TAC | 2030 | F | 18-0 | 7000 | 3500 | 300 | 12C | 255 | 40 | 35MM NW MELLIS | 07 | | | |
| 3 | 5 | 75 | TAC | 0210 | F | 11-0 | 6000 | 2300 | 400 | -25C | 240 | 30 | M04250M11607 | 90 | | | |
| 3 | 10 | 75 | TAC | 0910 | D | 10-0 | 5000 | 4300 | 400 | 36F | 200 | 10 | M04310M11630 | 90 | | | |
| 3 | 14 | 75 | TAC | 2030 | A | 16-0 | 5000 | 4300 | 330 | -15C | 200 | 40 | M03455M10303 | 92 | | | |
| 3 | 16 | 75 | TAC | 0250 | F | 15-0 | 7000 | 3500 | 300 | 3 | 0 | 0 | 20MM E MELLIS | 07 | | | |
| 3 | 21 | 75 | TAC | 0245 | F | 15-0 | 4000 | 5500 | 350 | -20C | 270 | 50 | M04250M11606 | 90 | | | |
| 3 | 20 | 75 | TAC | 0345 | D | 9-5 | 3000 | 2300 | 350 | -20 | 270 | 30 | M04250M11610 | 90 | | | |
| 3 | 27 | 75 | TAL | 1530 | TAC | 9-0 | 16000 | 2300 | 400 | -12C | 200 | 30 | M03430M10336 | 92 | | | |
| 3 | 20 | 75 | TAC | 1900 | TAC | 15-0 | 1000 | 1800 | 400 | -0C | 290 | 50 | M03605M11425 | 00 | | | |
| 3 | 31 | 75 | TAC | 1555 | TAC | 6-5 | 12000 | 3500 | 300 | -10C | 265 | 45 | M03900M11420 | 00 | | | |
| TYPE TOTALS: | | | | | | | | | | | | | | 75 | DUMPS | 621500 | Lbs |

TABLE 3. FUEL DUMPS BY AIRCRAFT TYPE (Continued)

(*) FUEL IS JP-4 IF ENTRY BLANK

| TYPE FB111 | DATE | TIME (Z) | CMD | MODEL | FUEL (%) | ALT K FT | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
|--------------|----------|----------|-----|-------|----------|----------|---------------|------------------|---------|----------|--------------|-------------|---------|
| | 10 8 74 | 1628 | SAC | A | 6.0 | 6000 | 2000 | 250 | 0 | 330 4 | M04430M07320 | 46 | |
| | 11 9 74 | 1200 | SAC | A | 2.0 | 12000 | 6000 | 100 | 10 | 270 30 | M04430M07316 | 46 | |
| | 11 10 74 | 1355 | SAC | A | 32.0 | 10000 | 2000 | 250 | 0 | 100 15 | M04430M0625 | 46 | |
| | 11 23 74 | 2145 | SAC | A | 0.0 | 20000 | 2500 | 275 | 0 | 320 20 | M04431M07352 | 46 | |
| | 12 17 74 | 0230 | SAC | A | 0.0 | 13000 | 2500 | 360 | -0 | 210 29 | M04426M0626 | 52 | |
| | 1 14 75 | 0025 | SAC | A | 5.0 | 10000 | 2000 | 270 | 10 | 250 25 | M04430M07332 | 60 | |
| | 1 10 75 | 0835 | SAC | A | 20.0 | 17000 | 2300 | 322 | -2 | 207 40 | M04430M06211 | 60 | |
| | 1 29 75 | 0220 | SAC | A | 4.0 | 14000 | 300 | 250 | -06 | 320 60 | M04431M07352 | 60 | |
| | 2 11 75 | 0540 | SAC | A | 3.0 | 8000 | 2000 | 200 | -12 | 320 20 | M04431M07352 | 63 | |
| | 2 12 75 | 1321 | SAC | A | 5.0 | 23000 | 2300 | 400 | -09 | 320 20 | M04431M06950 | 63 | |
| | 2 19 75 | 1515 | SAC | A | 16.0 | 10000 | 1000 | 326 | -20 | 250 30 | M04430M07022 | 63 | |
| | 3 10 75 | 0130 | SAC | A | 1.4 | 23000 | 1000 | 320 | -11 | 209 11 | M04432M07110 | 64 | |
| | 3 20 75 | 1720 | SAC | A | 5.0 | 22000 | 2500 | 300 | 5 | 230 15 | M04431M07010 | 64 | |
| TYPE TOTALS: | | | | | | | 14 DUMPS | 200000 LBS | | | | | |

(*) FUEL IS JP-4 IF ENTRY BLANK

| TYPE VC118 | DATE | TIME (Z) | CMD | MODEL | FUEL (%) | ALT K FT | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
|--------------|----------|----------|-------|-------|----------|----------|---------------|------------------|---------|----------|--------------|------------------|---------|
| | 12 24 74 | 1415 | PACAF | | 115 | 0.0 | 3000 | 2000 | 170 | 72 | 070 15 | 243759K0K0 TACAN | 56 |
| TYPE TOTALS: | | | | | | | 1 DUMPS | 3000 LBS | | | | | |

(*) FUEL IS JP-4 IF ENTRY BLANK

| TYPE FC121 | DATE | TIME (Z) | CMD | MODEL | FUEL (%) | ALT K FT | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
|--------------|----------|----------|-----|-------|----------|----------|---------------|------------------|---------|----------|--------------|-----------------|---------|
| | 10 31 74 | 1429 | ADC | Q | 115 | 6.0 | 7000 | 2000 | 150 | 25 | 00 20 | MAFBORTAC170/30 | 41 |
| | 11 8 74 | 2055 | ADC | T | 115 | 0.0 | 13500 | 4000 | 200 | 20 | 300 20 | M03641M12500 | 45 |
| | 11 27 74 | 0110 | ADC | T | 115 | 5.0 | 23000 | 4000 | 100 | 00 | 90 5 | M03030M12030 | 45 |
| | 12 14 74 | 1915 | ADC | U | 115 | 6.0 | 6000 | 4000 | 170 | 17 | 360 15 | MQX 170 15 | 51 |
| | 12 20 74 | 2230 | ADC | U | 115 | 10.0 | 9000 | 3600 | 200 | 00 | 230 10 | M03210M11000 | 49 |
| | 1 0 75 | 0858 | ADC | T | 115 | 10.0 | 30000 | 3600 | 173 | -00 | 330 10 | M03919M12046 | 50 |
| | 1 17 75 | 2305 | ADC | T | 115 | 7.0 | 8000 | 3000 | 160 | 30 | 0 0 | M03060M12136 | 50 |
| | 1 23 75 | 0135 | ADC | T | 115 | 12.0 | 7000 | 3500 | 105 | 120 | 310 25 | M03919M12046 | 50 |
| | 2 11 75 | 1917 | ADC | T | 115 | 6.0 | 7320 | 2440 | 170 | 10 | 220 10 | M02420M0050 | 64 |
| | 2 14 75 | 1500 | ADC | T | 115 | 0.0 | 29500 | 3600 | 160 | -00 | 330 14 | M03440M00450 | 65 |
| | 3 6 75 | 1605 | ADC | T | 115 | 0.0 | 24000 | 3600 | 100 | -110 | 320 10 | M03060M12136 | 83 |
| | 3 26 75 | 1520 | ADC | T | 115 | 0.0 | 24000 | 3300 | 170 | -50 | 260 25 | M03060M12136 | 83 |
| | 3 27 75 | 0308 | ADC | T | 115 | 7.0 | 3700 | 4000 | 150 | -150 | 230 30 | M04431M06003 | 83 |
| TYPE TOTALS: | | | | | | | 15 DUMPS | 491020 LBS | | | | | |

TABLE 3. FUEL DUMPS BY AIRCRAFT TYPE (Continued)

| TYPE: F0125 | | | | | | | | | | | | |
|--------------|----------|------|-------|----------|----------|---------------|------------------|---------|----------|--------------|------------------|---------|
| JATE | TIME (Z) | GMJ | MOJEL | FUEL (%) | ALT K FT | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
| 17 20 74 | 1852 | SAC | C | | 23.5 | 20000 | 7700 | 390 | -40 | 340 50 | M0317M10232 | 52 |
| TYPE TOTALS: | | | | | | 1 | DUMPS | 20000 | LBS | | | |
| TYPE: F0135 | | | | | | | | | | | | |
| DATE | TIME (Z) | GMJ | MOJEL | FUEL (%) | ALT K FT | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
| 11 24 74 | 1805 | SAC | L | | 13.0 | 20000 | 600 | 270 | 10 | 160 10 | M0330M10343 | 46 |
| 10 24 74 | 2021 | SAC | L | | 28.0 | 15000 | 4000 | 350 | -21 | 220 40 | M04051M08551 | 46 |
| 11 1 74 | 0503 | SAC | C | | 27.0 | 54000 | 6200 | 400 | -32 | 40 30 | M04025M09530 | 46 |
| 12 15 74 | 4130 | AFSC | N | | 14.0 | 50000 | 4000 | 300 | 00 | 270 10 | 208-308EHOHOLULU | 58 |
| TYPE TOTALS: | | | | | | 4 | DUMPS | 139000 | LBS | | | |
| TYPE: K0135 | | | | | | | | | | | | |
| JATE | TIME (Z) | GMJ | MOJEL | FUEL (%) | ALT K FT | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
| 10 2 74 | 1915 | SAC | A | | 41.0 | 95000 | 6000 | 350 | -33 | 160 26 | M04717M09015 | 46 |
| 10 3 74 | 1048 | SAC | U | | 21.0 | 33000 | 6500 | 450 | 5 | 270 30 | M04030M08000 | 46 |
| 10 3 74 | 2252 | SAC | | | 4 | 76000 | 6500 | 265 | 20 | 90 5 | M04171E14450 | 46 |
| 10 4 74 | 0838 | SAC | A | | 4.0 | 8000 | 6000 | 340 | 28 | 100 50 | M01250E10110 | 46 |
| 10 9 74 | 0150 | SAC | O | | 28.0 | 90000 | 6500 | 300 | 20 | 270 10 | M02530E02750 | 46 |
| 10 9 74 | 0216 | SAC | A | | 28.0 | 24000 | 600 | 220 | -19 | 290 50 | M03946M08407 | 46 |
| 10 14 74 | 1735 | SAC | A | | 2.0 | 47000 | 6500 | 400 | 6 | 200 40 | M03225M09300 | 46 |
| 10 16 74 | 0047 | SAC | A | | 28.0 | 21000 | 6000 | 350 | -25 | 310 20 | M03949M12119 | 46 |
| 10 16 74 | 0323 | SAC | A | | 14.2 | 65000 | 1000 | 240 | 22 | 285 10 | M01317E14433 | 46 |
| 10 17 74 | 0950 | SAC | A | | 28.0 | 20000 | 7000 | 320 | -6 | 240 50 | M04311M06930 | 46 |
| 10 17 74 | 0010 | SAC | A | | 28.0 | 60000 | 6000 | 330 | -28 | 335 10 | M03362M09954 | 46 |
| 10 17 74 | 0126 | SAC | A | | 21.0 | 15000 | 4500 | 300 | -16 | 310 100 | M03925M08342 | 46 |
| 10 21 74 | 0130 | SAC | A | | 2.0 | 25000 | 6500 | 350 | 4 | 90 25 | M01314E14410 | 46 |
| 10 21 74 | 1423 | SAC | A | | 28.0 | 25000 | 6000 | 320 | 6 | 155 12 | M04725M11121 | 46 |
| 10 21 74 | 2040 | SAC | A | | 28.0 | 67000 | 5500 | 300 | 4 | 270 20 | M03209M09911 | 46 |
| 10 22 74 | 1944 | SAC | A | | 21.0 | 3000 | 3000 | 360 | -14 | 270 30 | M03230M09305 | 46 |
| 10 27 74 | 1952 | SAC | A | | 18.0 | 29000 | 6000 | 300 | 7 | 90 25 | M02150M15510 | 46 |
| 10 27 74 | 2020 | SAC | O | | 3.0 | 40000 | 300 | 300 | 22 | 290 15 | M03224M09322 | 46 |
| 10 31 74 | 0620 | SAC | A | | 22.0 | 6000 | 6000 | 255 | 8 | 105 25 | M01344E14400 | 46 |
| 10 31 74 | 0342 | SAC | A | | 24.0 | 20000 | 4000 | 235 | -10 | 220 40 | M03209M10020 | 46 |
| 11 1 74 | 0345 | SAC | A | | 21.0 | 30000 | 7000 | 400 | -10 | 270 40 | M03007M12010 | 46 |
| 11 4 74 | 1515 | SAC | A | | 28.0 | 50000 | 6000 | 340 | -12 | 240 25 | M03303M08263 | 46 |
| 11 9 74 | 1912 | SAC | A | | 5.0 | 40000 | 700 | 250 | 23 | 95 11 | M02039M05004 | 46 |
| 11 7 74 | 1510 | SAC | A | | 10.0 | 66000 | 6000 | 300 | 17 | 240 30 | M03257M08239 | 46 |
| 11 6 74 | 1410 | SAC | A | | 17.0 | 63000 | 6500 | 370 | 40 | 240 42 | M03444M07022 | 46 |
| 11 13 74 | 0044 | SAC | A | | 14.0 | 64000 | 7300 | 250 | -6 | 240 20 | M03001M12007 | 46 |

TABLE 3. FUEL DUMPS BY AIRCRAFT TYPE (Continued)

(*) FUEL IS JP-4 IF ENTRY BLANK

| TYPE | KUJJS | (CONTINUED) | DATE | TIME (Z) | CHC | MODEL | FUEL (*) | ALT K FT | POUNDS DUMPED | UUMP RATE LB/MIN | AIR SPIJ | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
|------|-------|-------------|------|----------|-----|-------|----------|----------|---------------|------------------|----------|----------|--------------|-------------|---------|
| 11 | 13 | 74 | 1841 | SAC | A | 24.0 | 25000 | 6000 | 800 | -20 | 290 | 40 | M04741089752 | 46 | |
| 11 | 13 | 74 | 2030 | SAC | A | 18.0 | 30000 | 6000 | 247 | -5 | 350 | 40 | M04043089522 | 46 | |
| 11 | 13 | 74 | 1854 | SAC | A | 10.0 | 64000 | 7000 | 365 | -22 | 340 | 00 | M04611000502 | 46 | |
| 11 | 19 | 74 | 2112 | SAC | C | 28.0 | 50000 | 6500 | 450 | | | 70 | M04100011000 | 46 | |
| 11 | 21 | 74 | 2237 | SAC | A | 22.0 | 20000 | 6000 | 250 | -25 | 220 | 30 | M06519016619 | 46 | |
| 11 | 22 | 74 | 0810 | SAC | A | 21.0 | 50000 | 1000 | 300 | -30 | 360 | 40 | M04611000500 | 46 | |
| 11 | 24 | 74 | 1330 | SAC | A | 15.0 | 80000 | 6000 | 350 | -10 | 290 | 30 | M04437016045 | 46 | |
| 11 | 24 | 74 | 1104 | SAC | A | 25.0 | 63000 | 6300 | 375 | -10 | 320 | 70 | M03905000320 | 46 | |
| 11 | 27 | 74 | 1737 | SAC | A | 29.0 | 60000 | 6500 | 390 | -31 | 225 | 70 | M0400014715 | 46 | |
| 11 | 27 | 74 | 1824 | SAC | A | 20.0 | 40000 | 5000 | 325 | -14 | 320 | 05 | M04030010850 | 46 | |
| 11 | 29 | 74 | 0920 | SAC | A | 16.0 | 60000 | 5000 | 200 | -2 | 270 | 30 | M04100000200 | 46 | |
| 11 | 29 | 74 | 4638 | SAC | A | 6.0 | 36000 | 5000 | 320 | 412C | 200 | 35 | M04300007029 | 46 | |
| 11 | 29 | 74 | 1659 | SAC | A | 24.0 | 30000 | 6000 | 300 | -24 | 220 | 20 | M03307011744 | 46 | |
| 11 | 29 | 74 | 2215 | SAC | A | 17.0 | 91000 | 6500 | 200 | -6 | 190 | 20 | M04430016706 | 46 | |
| 12 | 3 | 74 | 2205 | SAC | A | 37.0 | 72000 | 6500 | 370 | 6 | 300 | 15 | M03150009929 | 52 | |
| 12 | 3 | 74 | 2244 | SAC | A | 20.0 | 65000 | 8500 | 395 | -34 | 200 | 65 | M04413016724 | 52 | |
| 12 | 4 | 74 | 0205 | SAC | A | 21.0 | 65000 | 5500 | 350 | -46 | 320 | 45 | M04615000505 | 52 | |
| 12 | 4 | 74 | 1433 | SAC | A | 24.0 | 11000 | 3000 | 410 | -28C | 200 | 65 | M05255000015 | 53 | |
| 12 | 6 | 74 | 1033 | SAC | A | 20.0 | 76000 | 5500 | 250 | -24 | 310 | 35 | M04650000051 | 52 | |
| 12 | 6 | 74 | 1955 | SAC | A | 22.0 | 50000 | 6400 | 300 | -4 | 170 | 25 | M03730009700 | 52 | |
| 12 | 10 | 74 | 2101 | SAC | R | 20.0 | 20000 | 6700 | 310 | 13 | 250 | 40 | M04810009535 | 52 | |
| 12 | 11 | 74 | 1635 | SAC | A | 20.0 | 35000 | 5000 | 300 | -26 | 270 | 70 | M04613000520 | 52 | |
| 12 | 11 | 74 | 1617 | SAC | A | 20.0 | 70000 | 7000 | 320 | -11 | 200 | 30 | M05330000042 | 52 | |
| 12 | 17 | 74 | 1030 | SAC | A | 20.0 | 52000 | 6000 | 420 | -23 | 270 | 30 | M04740009000 | 52 | |
| 12 | 17 | 74 | 2110 | SAC | A | 16.0 | 20000 | 3000 | 310 | 4 | 260 | 35 | M03250010010 | 52 | |
| 12 | 18 | 74 | 0033 | SAC | A | 20.0 | 65000 | 6500 | 375 | 4 | 290 | 12 | M03655010000 | 52 | |
| 12 | 18 | 74 | 1330 | SAC | A | 12.0 | 43000 | 6000 | 350 | -20 | 280 | 30 | M03450007740 | 52 | |
| 12 | 19 | 74 | 0324 | SAC | A | 20.0 | 02000 | 7000 | 325 | -6 | 270 | 50 | M04030011650 | 52 | |
| 12 | 20 | 74 | 0414 | SAC | A | 25.0 | 67000 | 6000 | 355 | -15 | 320 | 65 | M03949012121 | 52 | |
| 12 | 30 | 74 | 1935 | SAC | A | 29.0 | 20000 | 6500 | 370 | -60 | 270 | 90 | M03730009700 | 52 | |
| 1 | 2 | 75 | 2017 | SAC | O | 20.0 | 62000 | 6000 | 300 | -11 | 340 | 65 | M04431007352 | 60 | |
| 1 | 6 | 75 | 1930 | SAC | A | 29.0 | 30000 | 6500 | 440 | -25 | 200 | 70 | M04715011430 | 60 | |
| 1 | 9 | 75 | 2030 | SAC | A | 21.0 | 50000 | 7200 | 239 | -32 | 300 | 40 | M04636006442 | 60 | |
| 1 | 10 | 75 | 1525 | SAC | A | 20.0 | 30000 | 3000 | 350 | -2 | 270 | 45 | M04355007355 | 60 | |
| 1 | 10 | 75 | 2340 | SAC | A | 20.0 | 25000 | 5000 | 362 | -10 | 300 | 30 | M03630011315 | 60 | |
| 1 | 13 | 75 | 0544 | SAC | A | 22.0 | 30000 | 6500 | 400 | -10 | 100 | 5 | M01350014645 | 60 | |
| 1 | 13 | 75 | 2130 | SAC | A | 20.0 | 34000 | 4000 | 300 | -50 | 40 | 20 | M06620000050 | 60 | |
| 1 | 13 | 75 | 2159 | SAC | U | 25.0 | 27000 | 4500 | 350 | -35 | 330 | 60 | M03950012034 | 60 | |
| 1 | 16 | 75 | 0932 | SAC | A | 18.0 | 71000 | 6500 | 300 | -20 | 270 | 30 | M06510001625 | 60 | |
| 1 | 16 | 75 | 2040 | SAC | A | 20.0 | 01000 | 6000 | 425 | -20 | 310 | 10 | M05900014656 | 60 | |
| 1 | 20 | 75 | 0458 | SAC | A | 26.0 | 67000 | 6000 | 370 | -13 | 310 | 40 | M03651011300 | 60 | |
| 1 | 20 | 75 | 1300 | SAC | A | 16.0 | 96000 | 5500 | 350 | -20 | 240 | 20 | M06400016720 | 60 | |
| 1 | 20 | 75 | 2020 | SAC | A | 16.0 | 45000 | 6500 | 335 | -10 | 300 | 40 | M03730009700 | 60 | |
| 1 | 21 | 75 | 2117 | SAC | A | 20.0 | 23000 | 6000 | 290 | -33 | 260 | 50 | M04027009530 | 60 | |
| 1 | 22 | 75 | 0735 | SAC | A | 27.0 | 29000 | 3300 | 360 | -32 | 250 | 75 | M04050000651 | 60 | |
| 1 | 23 | 75 | 1735 | SAC | A | 22.0 | 43000 | 4500 | 220 | -20 | 290 | 60 | M04030011650 | 60 | |
| 1 | 24 | 75 | 1523 | SAC | Q | 21.0 | 65000 | 6000 | 350 | -10 | 260 | 55 | M05210000037 | 60 | |
| 1 | 27 | 75 | 1730 | SAC | A | 21.0 | 10000 | 2200 | 312 | -20 | 270 | 45 | M04410000003 | 60 | |
| 1 | 27 | 75 | 2250 | SAC | A | 20.0 | 70000 | 6000 | 350 | -30 | 302 | 75 | M04423007336 | 60 | |
| 1 | 26 | 75 | 0115 | SAC | A | 16.0 | 63000 | 6000 | 260 | 10 | 260 | 30 | M02130015700 | 60 | |
| 1 | 21 | 75 | 1210 | SAC | A | 25.0 | 27000 | 2000 | 320 | -20 | 260 | 40 | M04005016710 | 60 | |

TABLE 3. FUEL DUMPS BY AIRCRAFT TYPE (Continued)

(*) FUEL IS JP-4 IF ENTRY BLANK

| JATE | TIME (Z) | GMT | MOJEL | FUEL (%) | ALT K FT | POUNDS DUMPED | DUMP RATE LBS/MIN | AIR SPJ | AIR TEMP | WIND DIR/SPO | COORDINATES | LOW NO. |
|---------|----------|-----|-------|----------|----------|---------------|-------------------|---------|----------|--------------|--------------|---------|
| 1 24 75 | 1420 | SAC | A | | 25.0 | 30000 | 6500 | 300 | -26 | 250 98 | M04050M00651 | 60 |
| 1 31 75 | 1515 | SAC | J | JP7 | 20.0 | 40000 | 6200 | 350 | 00 | 250 18 | M01212E10128 | 60 |
| 2 3 75 | 1519 | SAC | A | | 24.0 | 50000 | 4500 | 420 | -24 | 250 30 | M04327M10215 | 63 |
| 2 3 75 | 1645 | SAC | A | | 18.0 | 35000 | 6000 | 300 | -06 | 220 10 | M06410M16608 | 63 |
| 2 5 75 | 0000 | SAC | A | | 20.0 | 40000 | 7000 | 370 | -14 | 010 180 | M04033M11655 | 63 |
| 2 5 75 | 2250 | SAC | A | | 29.0 | 23000 | 7000 | 400 | -20 | 310 110 | M06280M11740 | 63 |
| 2 7 75 | 0500 | SAC | 0 | | 22.0 | 30000 | 4200 | 300 | -20 | 300 20 | M06406M16716 | 63 |
| 2 7 75 | 0951 | SAC | A | | 20.0 | 50000 | 6000 | 300 | -24 | 270 30 | M06100M00200 | 63 |
| 2 10 75 | 0730 | SAC | A | | 16.0 | 105000 | 7500 | 330 | 22 | 010 15 | M01430E01410 | 63 |
| 2 10 75 | 1545 | SAC | A | | 25.0 | 30000 | 7100 | 335 | -42 | 320 60 | M03949M12130 | 63 |
| 2 11 75 | 0642 | SAC | A | | 20.0 | 80000 | 7300 | 285 | -24 | 200 50 | M04036M10157 | 63 |
| 2 14 75 | 1456 | SAC | A | | 29.0 | 37000 | 3000 | 400 | -12 | 166 15 | M01334M16010 | 63 |
| 2 14 75 | 1456 | SAC | A | | 20.0 | 50000 | 7000 | 410 | -14 | 270 50 | M06310M10231 | 63 |
| 2 14 75 | 2150 | SAC | A | | 20.0 | 15000 | 7000 | 330 | -14 | 194 35 | M03616M11954 | 63 |
| 2 15 75 | 2253 | SAC | A | | 25.0 | 62000 | 6500 | 360 | -30 | 200 58 | M03955M12126 | 63 |
| 2 17 75 | 2104 | SAC | A | | 18.0 | 42000 | 6000 | 285 | -07 | 040 15 | M02150M01560 | 63 |
| 2 27 75 | 1555 | SAC | A | | 22.0 | 20000 | 6000 | 255 | -12 | 300 55 | M03730M09700 | 63 |
| 2 24 75 | 0824 | SAC | A | | 20.0 | 80000 | 8000 | 300 | -18 | 300 00 | M04030M11650 | 63 |
| 2 24 75 | 0824 | SAC | A | | 25.0 | 18000 | 6000 | 230 | -34 | 300 20 | M03950M12130 | 63 |
| 2 24 75 | 0200 | SAC | J | JP7 | 20.0 | 26000 | 1500 | 350 | -18 | 330 05 | M04326M10236 | 63 |
| 2 28 75 | 2302 | SAC | A | | 24.0 | 26000 | 6000 | 300 | -35 | 010 35 | M03726M12955 | 63 |
| 3 5 75 | 0215 | SAC | A | | 39.5 | 20000 | 6000 | 360 | -5 | 250 40 | M03310M11647 | 04 |
| 3 5 75 | 1049 | SAC | A | | 20.0 | 53000 | 13000 | 200 | 11 | 000 3 | M03710M12110 | 04 |
| 3 6 75 | 2041 | SAC | A | | 22.0 | 20000 | 6500 | 325 | -20 | 240 65 | M03730M09700 | 04 |
| 3 6 75 | 2121 | SAC | A | | 20.0 | 65000 | 7500 | 390 | -24 | 330 55 | M04035M11644 | 04 |
| 3 11 75 | 0230 | SAC | A | | 23.0 | 20000 | 5000 | 355 | -33 | 010 15 | M03645M11920 | 04 |
| 3 11 75 | 0250 | SAC | A | | 26.0 | 35000 | 6500 | 370 | -18 | 270 65 | M03225M09306 | 04 |
| 3 13 75 | 0030 | SAC | A | | 12.0 | 72000 | 6500 | 295 | 10 | 240 10 | M03310M11647 | 04 |
| 3 13 75 | 0529 | SAC | A | | 35.0 | 21000 | 7200 | 430 | -33 | 250 40 | M03950M09700 | 04 |
| 3 13 75 | 1235 | SAC | A | | 20.0 | 30000 | 10000 | 345 | -22 | 250 120 | M04340M07604 | 04 |
| 3 14 75 | 0510 | SAC | A | | 20.0 | 66000 | 4000 | 470 | | | M03753M12000 | 04 |
| 3 17 75 | 0034 | SAC | A | | 5 | 95000 | 4000 | 300 | 260 | 150 10 | M01210E10055 | 04 |
| 3 18 75 | 0340 | SAC | A | | 24.0 | 37000 | 3500 | 350 | -37 | 265 55 | M04030M11651 | 04 |
| 3 18 75 | 1402 | SAC | A | | 1.7 | 90000 | 6500 | 350 | -20 | 260 20 | M04321M06950 | 04 |
| 3 18 75 | 1945 | SAC | A | | 22.0 | 45000 | 8000 | 300 | -25 | 290 12 | M03730M09700 | 04 |
| 3 22 75 | 2131 | SAC | A | | 18.0 | 59000 | 5000 | 270 | -14 | 220 10 | M02721M15239 | 06 |
| 3 25 75 | 0505 | SAC | A | | 20.0 | 120000 | 6500 | 300 | -20 | 230 10 | M02000M15000 | 06 |
| 3 26 75 | 1509 | SAC | A | | 20.0 | 55000 | 6000 | 330 | -26 | 325 30 | M01509M11640 | 04 |
| 3 27 75 | 1649 | SAC | A | | 20.0 | 10000 | 6300 | 370 | -14 | 240 50 | M0320M09250 | 04 |
| 3 27 75 | 2240 | SAC | A | | 20.0 | 10000 | 6300 | 360 | -10 | 240 40 | M0330M00264 | 04 |
| 3 24 75 | 0305 | SAC | 0 | | 20.0 | 50000 | 6500 | 347 | -2 | 350 75 | M03053M12545 | 04 |
| 3 24 75 | 2240 | SAC | A | | 27.0 | 65000 | 6000 | 270 | -20 | 225 75 | M02102M15903 | 06 |
| 3 31 75 | 0045 | SAC | A | | 27.5 | 25000 | 6500 | 260 | -16 | 260 50 | M02000M16400 | 06 |
| 3 31 75 | 0045 | SAC | A | | 27.0 | 65000 | 6500 | 270 | -16 | 260 50 | M02000M16400 | 06 |

TYPE TOTALS: 121 DUMPS 556000 LBS

TABLE 3. FUEL DUMPS BY AIRCRAFT TYPE (Continued)

| TYPE: MKC135 | | (*) FUEL IS JP-4 IF ENTRY BLANK | | | | | | | | | | | LOG NO. |
|--------------------------------|----------|---------------------------------|-------|----------|----------|---------------|------------------|---------|----------|--------------|--------------|---------|---------|
| DATE | TIME (Z) | CMD | MODEL | FUEL (°) | ALT K FT | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. | |
| 10 2 76 | 1635 | AFSC | N | 23.0 | 46000 | 2000 | 2000 | 350 | -25C | 330 25 | M03445M18635 | 35 | |
| TYPE TOTALS: 1 DUMPS 46000 LBS | | | | | | | | | | | | | |
| TYPE: POC135 | | (*) FUEL IS JP-4 IF ENTRY BLANK | | | | | | | | | | | LOG NO. |
| DATE | TIME (Z) | CMD | MODEL | FUEL (°) | ALT K FT | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. | |
| 10 1 76 | 0931 | SAC | S | 20.0 | 20000 | 6500 | 6500 | 450 | -30 | 330 30 | M05200E17400 | 46 | |
| 10 5 76 | 0120 | SAC | S | 19.0 | 23000 | 6500 | 6500 | 450 | -13 | 340 25 | M05347M17610 | 46 | |
| 10 5 76 | 1945 | SAC | M | 19.0 | 50000 | 4000 | 4000 | 320 | 10 | 240 27 | M04836M09561 | 46 | |
| 10 7 76 | 0545 | SAC | S | 18.0 | 10000 | 6500 | 6500 | 450 | 6 | 210 15 | M05245E17354 | 46 | |
| 10 8 76 | 1720 | SAC | S | 20.0 | 25000 | 6500 | 6500 | 450 | -30 | 150 10 | M05330E17200 | 46 | |
| 10 10 76 | 1750 | SAC | S | 20.0 | 13000 | 6500 | 6500 | 450 | -23 | 240 15 | M05340E17254 | 46 | |
| 10 14 76 | 0810 | SAC | M | 23.5 | 22000 | 6500 | 6500 | 450 | -40 | 325 35 | M05417E17237 | 46 | |
| 10 15 76 | 2135 | SAC | M | 16.0 | 60000 | 4000 | 4000 | 400 | -4 | 200 40 | M04826M09535 | 46 | |
| 10 22 76 | 0732 | SAC | S | 10.0 | 12000 | 6500 | 6500 | 450 | -15 | 270 15 | M05134E17433 | 46 | |
| 10 24 76 | 0440 | SAC | C | 21.0 | 36000 | 4000 | 4000 | 370 | -37 | 240 10 | M04530M10500 | 46 | |
| 10 25 76 | 0520 | SAC | M | 21.4 | 30000 | 6000 | 6000 | 100 | -2 | 270 60 | M03740E02402 | 46 | |
| 10 27 76 | 0730 | SAC | S | 20.0 | 34000 | 4000 | 4000 | 360 | -25 | 270 35 | M03600E02439 | 46 | |
| 10 31 76 | 2015 | SAC | S | 19.9 | 9000 | 6500 | 6500 | 450 | -12 | 270 15 | M05230E17340 | 46 | |
| 11 2 76 | 0007 | SAC | M | 25.0 | 70000 | 1500 | 1500 | 400 | 0 | 270 10 | M01525E11302 | 46 | |
| 11 4 76 | 0755 | SAC | S | 25.0 | 25000 | 6500 | 6500 | 400 | -20 | 320 30 | M05400E17200 | 46 | |
| 11 4 76 | 1641 | SAC | S | 22.0 | 21000 | 6500 | 6500 | 450 | -42 | 300 55 | M05230E17430 | 46 | |
| 11 4 76 | 2115 | SAC | S | 20.0 | 29000 | 6500 | 6500 | 150 | -20 | 300 20 | M05245E17420 | 46 | |
| 11 6 76 | 0422 | SAC | C | 24.0 | 75000 | 5000 | 5000 | 400 | -40 | 220 40 | M06510M14627 | 46 | |
| 11 11 76 | 0210 | SAC | S | 20.0 | 20000 | 6500 | 6500 | 450 | -33 | 210 10 | M04400E07633 | 46 | |
| 11 12 76 | 0005 | SAC | D | 26.0 | 22000 | 500 | 500 | 340 | -17 | 290 70 | M06504M14610 | 46 | |
| 11 12 76 | 0439 | SAC | V | 23.0 | 33000 | 500 | 500 | 250 | 46 | 100 6 | M04623M07334 | 46 | |
| 11 12 76 | 1533 | SAC | U | 15.0 | 20000 | 3000 | 3000 | 405 | -10 | 300 25 | M03600E02515 | 46 | |
| 11 14 76 | 0817 | SAC | S | 20.0 | 13000 | 600 | 600 | 450 | -44 | 220 30 | M03323E17326 | 46 | |
| 11 15 76 | 1540 | SAC | S | 21.0 | 20000 | 600 | 600 | 450 | -44 | 220 30 | M03323E17326 | 46 | |
| 11 18 76 | 1515 | SAC | S | 21.0 | 33000 | 6500 | 6500 | 450 | -20 | 205 100 | M05336E17312 | 46 | |
| 11 19 76 | 0202 | SAC | D | 24.0 | 60000 | 3000 | 3000 | 355 | -41 | 150 10 | M06356M14701 | 46 | |
| 11 22 76 | 0619 | SAC | S | 21.0 | 14000 | 6500 | 6500 | 150 | -34 | 200 70 | M05312E17541 | 46 | |
| 11 22 76 | 0720 | SAC | P | 25.0 | 10000 | 1400 | 1400 | 450 | -20 | 290 10 | M02712E12029 | 46 | |
| 12 5 76 | 0445 | SAC | S | 23.5 | 10000 | 6500 | 6500 | 450 | -40 | 30 30 | M05400E17400 | 52 | |
| 12 7 76 | 1537 | SAC | S | 25.0 | 10000 | 6500 | 6500 | 450 | -50 | 270 30 | M05400E17400 | 52 | |
| 12 11 76 | 2050 | SAC | S | 25.5 | 10000 | 6500 | 6500 | 450 | -50 | 190 15 | M05425E17230 | 52 | |
| 12 13 76 | 1432 | SAC | D | 25.0 | 50000 | 4000 | 4000 | 415 | -50 | 200 20 | M06510M14630 | 52 | |
| 12 25 76 | 1440 | SAC | S | 20.0 | 30000 | 6500 | 6500 | 450 | -40 | 350 40 | M05252E17310 | 52 | |
| 1 6 75 | 0434 | SAC | M | 25.0 | 60000 | 4000 | 4000 | 300 | -10 | 255 30 | M02440E12729 | 60 | |
| 1 10 75 | 0220 | SAC | S | 14.0 | 33000 | 6500 | 6500 | 450 | -0 | 220 10 | M05240E17410 | 60 | |
| 1 14 75 | 2125 | SAC | A | 14.0 | 40000 | 3300 | 3300 | 160 | -15 | 330 40 | M04840M09530 | 60 | |
| 1 24 75 | 0500 | SAC | D | 20.0 | 29000 | 1100 | 1100 | 350 | -40 | 230 20 | M06515M14700 | 60 | |
| 2 1 75 | 2200 | SAC | D | 20.0 | 107000 | 4000 | 4000 | 420 | -40 | 240 60 | M03351E12753 | 63 | |
| 2 3 75 | 2254 | SAC | H | 21.0 | 39000 | 500 | 500 | 360 | -16 | 260 30 | M02554E12784 | 63 | |
| 2 4 75 | 2205 | SAC | V | 19.0 | 10000 | 2500 | 2500 | 400 | -20 | 275 40 | M04827M09535 | 63 | |

TABLE 3. FUEL DUMPS BY AIRCRAFT TYPE (Concluded)

| TYPE: KC135 (CONTINUED) | | (*) FUEL IS JP-6 IF ENTRY BLANK | | | | | | | | | | |
|-------------------------|----------|---------------------------------|-------|----------|----------|---------------|------------------|---------|----------|--------------|--------------|---------|
| DATE | TIME (Z) | CMD | MODEL | FUEL (%) | ALT K FT | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
| 2 7 75 | 22:41 | SAC | M | | 22.0 | 100000 | 5000 | 600 | -17 | 220 55 | M02715E12004 | 63 |
| 3 7 75 | 0505 | SAC | H | | 24.0 | 37000 | 700 | 350 | -6 | 255 70 | M02652M12730 | 84 |
| 3 7 75 | 0540 | SAC | D | | 33.0 | 50000 | 2000 | 410 | -25 | 120 60 | M07530M17130 | 84 |
| 3 10 75 | 1234 | SAC | V | | 22.0 | 90000 | 9000 | 240 | -20 | 340 15 | M05320E00109 | 84 |
| 3 12 75 | 0104 | SAC | C | | 26.0 | 77000 | 0000 | 280 | -9 | 030 15 | M06510M14705 | 84 |
| 3 14 75 | 0354 | SAC | M | | 25.0 | 90000 | 300 | 370 | -10 | 290 05 | M02639E12726 | 84 |
| 3 15 75 | 1248 | SAC | M | | 16.0 | 37000 | 200 | 320 | -16 | 273 35 | M02644E12720 | 84 |
| | | TYPE TOTALS: | | 47 | DUMPS | 1090000 | LBS | | | | | |

| TYPE: KC141 | | (*) FUEL IS JP-6 IF ENTRY BLANK | | | | | | | | | | |
|-------------|----------|---------------------------------|-------|----------|----------|---------------|------------------|---------|----------|--------------|------------------|---------|
| DATE | TIME (Z) | CMD | MODEL | FUEL (%) | ALT K FT | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
| 11 19 74 | 0200 | MAC | B | | 10.0 | 70000 | 0000 | 600 | -45 | 200 60 | ALAS/FKNS VORTAC | 67 |
| 2 28 75 | 1228 | MAC | B | | 10.0 | 30000 | 7600 | 600 | -20 | 270 50 | M03905E14420 | 81 |
| | | TYPE TOTALS: | | 2 | DUMPS | 100000 | LBS | | | | | |

| TYPE: C141 | | (*) FUEL IS JP-6 IF ENTRY BLANK | | | | | | | | | | |
|------------|----------|---------------------------------|-------|----------|----------|---------------|------------------|---------|----------|--------------|---------------|---------|
| DATE | TIME (Z) | CMD | MODEL | FUEL (%) | ALT K FT | POUNDS DUMPED | DUMP RATE LB/MIN | AIR SPD | AIR TEMP | WIND DIR/SPD | COORDINATES | LOG NO. |
| 11 18 74 | 1350 | MAC | | | 35.0 | 76600 | 2645 | 632 | -45 | 240 22 | PARKER VORTAC | 48 |
| 11 19 74 | 0015 | MAC | | | 16.0 | 52000 | 5000 | 310 | 100 | 60 20 | M01459E12045 | 48 |
| | | TYPE TOTALS: | | 2 | DUMPS | 128600 | LBS | | | | | |

NOTES TO TABLE 3

The table lists all fuel dumps between 1 October 1974 and 31 March 1975 for which reports were received at AFWL. Column headings are mostly self-evident. LOG NO. is an internal AFWL accounting number referring back to the original dump report sheet. Airspeed and wind speed are in knots. Air temperature is specified to be degrees Centigrade (C) or Fahrenheit (F) when the original report so designates; otherwise, the units of temperature are uncertain. Fuel type 115/145 is represented in the table as 115. MODEL designates the model of the aircraft. For example, a dump by a KC-135A would be listed under dumps by KC-135 type aircraft, with "A" printed in the column under MODEL.

TABLE 4. SUMMARY OF FUEL DUMPS BY AIRCRAFT TYPE

| <u>Aircraft Type</u> | <u>Number of Dumps</u> | <u>Total Pounds Dumped</u> |
|------------------------------|------------------------|----------------------------|
| U-2 | 9 | 42,000 |
| HH-3 | 2 | 2,100 |
| F-4 | 11 | 7,650 |
| NI-39 | 1 | 2,000 |
| T-39 | 1 | 2,000 |
| F-111 | 75 | 621,500 |
| FB-111 | 14 | 200,000 |
| VC-118 | 1 | 3,000 |
| EC-121 | 13 | 191,020 |
| EC-125 | 1 | 20,000 |
| EC-135 | 4 | 139,000 |
| KC-135 | 121 | 5,568,000 |
| NKC-135 | 1 | 46,000 |
| RC-135 | 47 | 1,898,000 |
| WC-135 | 2 | 100,000 |
| C-141 | 2 | 128,600 |
| TOTAL FOR F-111 TYPE | 89 | 821,500 |
| TOTAL FOR KC-135 TYPE | 175 | 7,751,000 |

SECTION III

FUEL DUMPS SUMMARIZED BY LOCATION

All fuel dump reports in which the location was specified in latitude and longitude coordinates (278 out of a total of 305 reports) were sorted by computer into a one-degree latitude by one-degree longitude grid, and the number of fuel dumps and total quantity of fuel dumped in each grid box were printed out. The results are given in Table 5, with zero entries being omitted for brevity. A table entry for latitude X, longitude Y gives the number of fuel dumps and total pounds dumped with latitude coordinates greater than, or equal to, X and less than X+1 degrees, and with longitude coordinates greater than, or equal to, Y and less than Y+1 degrees.

Of the 27 fuel dumps not included in Table 5, it was possible to assign 24 of them to grid boxes by converting the reported coordinates into latitude and longitude or by noting the base to which the aircraft were assigned and assuming the fuel dumps were in the same grid box as the base. (The latter assumption was only made for TAC fuel dumps, and only when all other fuel dumps from the same reporting group were known to be near the base.) These assignments are given as notes to Table 5.

TABLE 5. SUMMARY OF FUEL DUMPS BY LOCATION

| <u>Degrees Latitude</u> | <u>Degrees Longitude</u> | <u>Number of Dumps</u> | <u>Total Pounds Dumped</u> | <u>Notes*</u> |
|-------------------------|--------------------------|------------------------|----------------------------|---------------|
| 9 N | 79 W | 1 | 2,000 | |
| 13 N | 140 W | 1 | 37,000 | |
| 15 N | 116 W | 1 | 120,000 | |
| 20 N | 58 W | 1 | 40,000 | |
| 20 N | 158 W | 1 | 50,000 | |
| 20 N | 164 W | 2 | 90,000 | |
| 21 N | 15 W | 1 | 42,000 | |
| 21 N | 155 W | 1 | 29,000 | 3 |
| 21 N | 157 W | 1 | 63,000 | |
| 21 N | 159 W | 1 | 65,000 | |
| 24 N | 80 W | 1 | 7,000 | |
| 25 N | 80 W | 1 | 1,000 | 1 |
| 26 N | 127 W | 1 | 37,000 | |
| 27 N | 152 W | 1 | 59,000 | |
| 30 N | 86 W | 1 | 2,000 | |
| 31 N | 99 W | 1 | 72,000 | 11 |
| 31 N | 110 W | 2 | 7,000 | |
| 31 N | 111 W | 7 | 35,000 | |
| 32 N | 82 W | 1 | 66,000 | 2 |
| 32 N | 92 W | 1 | 55,000 | |
| 32 N | 93 W | 4 | 125,000 | |
| 32 N | 99 W | 1 | 67,000 | 11 |

* See page 36 for NOTES to this table.

TABLE 5. SUMMARY OF FUEL DUMPS BY LOCATION (Continued)

| <u>Degrees Latitude</u> | <u>Degrees Longitude</u> | <u>Number of Dumps</u> | <u>Total Pounds Dumped</u> | <u>Notes*</u> |
|-----------------------------|------------------------------|----------------------------|--------------------------------|---------------|
| 32 N | 100 W | 3 | 112,000 | 11 |
| 32 N | 110 W | 1 | 9,000 | |
| 33 N | 82 W | 2 | 68,000 | |
| 33 N | 99 W | 1 | 60,000 | 11 |
| 33 N | 106 W | 3 | 4,000 | 11 |
| 33 N | 116 W | 2 | 54,000 | |
| 33 N | 117 W | 1 | 30,000 | |
| 34 N | 77 W | 1 | 43,000 | |
| 34 N | 78 W | 2 | 84,000 | |
| 34 N | 84 W | 1 | 29,000 | |
| 34 N | 100 W | 1 | 65,000 | 11 |
| 34 N | 103 W | 12 | 87,000 | 7, 11 |
| 34 N | 104 W | 1 | 16,000 | 11 |
| 34 N | 106 W | 7 | 46,000 | 11 |
| 35 N | 103 W | 1 | 10,000 | 11 |
| 36 N | 114 W | 2 | 35,000 | 12 |
| 36 N | 115 W | 4 | 25,000 | 6, 12 |
| 36 N | 119 W | 4 | 127,000 | 13 |
| 36 N | 125 W | 1 | 13,000 | |
| 37 N | 97 W | 6 | 205,000 | 10 |
| 37 N | 114 W | 1 | 5,000 | 12 |
| 37 N | 115 W | 1 | 13,000 | 12 |

* See page 36 for NOTES to this table.

TABLE 5. SUMMARY OF FUEL DUMPS BY LOCATION (Continued)

| <u>Degrees Latitude</u> | <u>Degrees Longitude</u> | <u>Number of Dumps</u> | <u>Total Pounds Dumped</u> | <u>Notes*</u> |
|-----------------------------|------------------------------|----------------------------|--------------------------------|---------------|
| 37 N | 120 W | 1 | 66,000 | 13 |
| 37 N | 121 W | 1 | 8,000 | 13 |
| 37 N | 129 W | 1 | 20,000 | |
| 38 N | 120 W | 3 | 114,000 | 13 |
| 38 N | 121 W | 3 | 56,000 | 13 |
| 38 N | 122 W | 1 | 500 | |
| 38 N | 125 W | 1 | 50,000 | |
| 39 N | 83 W | 2 | 78,000 | |
| 39 N | 84 W | 1 | 24,000 | |
| 39 N | 114 W | 1 | 2,000 | |
| 39 N | 120 W | 3 | 64,000 | 13 |
| 39 N | 121 W | 5 | 178,000 | 13 |
| 40 N | 0 W | 1 | 33,000 | |
| 40 N | 85 W | 1 | 15,000 | |
| 40 N | 86 W | 4 | 145,000 | |
| 40 N | 95 W | 8 | 295,000 | 9 |
| 41 N | 2 W | 2 | 110,000 | |
| 41 N | 114 W | 1 | 58,000 | |
| 42 N | 115 W | 7 | 45,000 | 14 |
| 42 N | 116 W | 20 | 183,000 | 14 |
| 42 N | 117 W | 3 | 40,000 | 14 |
| 43 N | 69 W | 3 | 133,000 | 8 |
| 43 N | 70 W | 3 | 68,000 | 8 |

* See page 36 for NOTES to this table.

TABLE 5. SUMMARY OF FUEL DUMPS BY LOCATION (Continued)

| <u>Degrees Latitude</u> | <u>Degrees Longitude</u> | <u>Number of Dumps</u> | <u>Total Pounds Dumped</u> | <u>Notes*</u> |
|-----------------------------|------------------------------|----------------------------|--------------------------------|---------------|
| 43 N | 71 W | 1 | 23,000 | 8 |
| 43 N | 73 W | 1 | 38,000 | 8 |
| 43 N | 76 W | 1 | 30,000 | |
| 43 N | 102 W | 4 | 149,000 | |
| 43 N | 103 W | 1 | 20,000 | |
| 43 N | 115 W | 1 | 9,000 | 5, 14 |
| 43 N | 116 W | 2 | 17,000 | 14 |
| 44 N | 73 W | 9 | 215,000 | 8 |
| 44 N | 84 W | 1 | 18,000 | |
| 45 N | 70 W | 1 | 12,000 | 8 |
| 45 N | 82 W | 1 | 17,000 | |
| 45 N | 105 W | 1 | 36,000 | |
| 46 N | 68 W | 3 | 72,000 | 8 |
| 46 N | 85 W | 4 | 214,000 | |
| 46 N | 88 W | 1 | 34,000 | |
| 46 N | 109 W | 1 | 20,000 | |
| 47 N | 97 W | 1 | 25,000 | |
| 47 N | 98 W | 2 | 147,000 | |
| 47 N | 111 W | 1 | 25,000 | |
| 47 N | 114 W | 1 | 30,000 | |
| 48 N | 10 W | 1 | 80,000 | |
| 48 N | 100 W | 1 | 4,000 | |
| 48 N | 116 W | 6 | 347,000 | 15 |

* See page 36 for NOTES to this table.

TABLE 5. SUMMARY OF FUEL DUMPS BY LOCATION (Continued)

| <u>Degrees Latitude</u> | <u>Degrees Longitude</u> | <u>Number of Dumps</u> | <u>Total Pounds Dumped</u> | <u>Notes*</u> |
|-----------------------------|------------------------------|----------------------------|--------------------------------|---------------|
| 53 N | 176 W | 1 | 23,000 | |
| 59 N | 146 W | 1 | 81,000 | |
| 63 N | 147 W | 1 | 60,000 | 16 |
| 64 N | 146 W | 1 | 35,000 | 16 |
| 64 N | 147 W | 5 | 286,000 | 16 |
| 64 N | 149 W | 1 | 80,000 | |
| 65 N | 14 W | 1 | 71,000 | |
| 65 N | 146 W | 4 | 167,000 | 16 |
| 65 N | 147 W | 2 | 106,000 | 4, 16 |
| 75 N | 171 W | 1 | 50,000 | 16 |
| 12 N | 100 E | 1 | 95,000 | |
| 12 N | 101 E | 2 | 48,000 | |
| 13 N | 143 E | 1 | 45,000 | |
| 13 N | 144 E | 2 | 31,000 | |
| 13 N | 146 E | 1 | 30,000 | |
| 14 N | 14 E | 1 | 105,000 | |
| 14 N | 120 E | 1 | 52,000 | |
| 14 N | 144 E | 1 | 76,000 | |
| 15 N | 113 E | 1 | 78,000 | |
| 25 N | 27 E | 1 | 90,000 | |
| 25 N | 127 E | 1 | 39,000 | |
| 26 N | 127 E | 3 | 157,000 | |

* See page 36 for NOTES to this table.

TABLE 5. SUMMARY OF FUEL DUMPS BY LOCATION (Concluded)

| <u>Degrees Latitude</u> | <u>Degrees Longitude</u> | <u>Number of Dumps</u> | <u>Total Pounds Dumped</u> | <u>Notes*</u> |
|-------------------------|--------------------------|------------------------|----------------------------|---------------|
| 27 N | 128 E | 2 | 280,000 | |
| 33 N | 127 E | 1 | 107,000 | |
| 33 N | 173 E | 1 | 20,000 | |
| 36 N | 24 E | 1 | 34,000 | |
| 36 N | 25 E | 1 | 13,000 | |
| 37 N | 24 E | 1 | 30,000 | |
| 39 N | 144 E | 1 | 30,000 | |
| 44 N | 76 E | 1 | 20,000 | |
| 51 N | 174 E | 1 | 12,000 | 17 |
| 52 N | 0 E | 2 | 76,000 | |
| 52 N | 173 E | 3 | 49,000 | 17 |
| 52 N | 174 E | 4 | 103,000 | 17 |
| 53 N | 0 E | 1 | 70,000 | |
| 53 N | 1 E | 1 | 90,000 | |
| 53 N | 172 E | 3 | 56,000 | 17 |
| 53 N | 173 E | 1 | 33,000 | 17 |
| 53 N | 175 E | 1 | 14,000 | 17 |
| 54 N | 172 E | 3 | 65,000 | 17 |
| 54 N | 174 E | 1 | 18,000 | 17 |
| 64 N | 147 E | 1 | 91,000 | |

* See next page for NOTES to this table.

NOTES FOR TABLE 5

1. One additional fuel dump of 7000 pounds near this area.
2. One additional fuel dump of 2000 pounds near this area.
3. One additional fuel dump of 50,000 pounds near this area.
4. One additional fuel dump of 70,000 pounds near this area.
5. One additional fuel dump of 14,000 pounds near this area.
6. Six additional fuel dumps totaling 46,000 pounds near this area.
7. Thirteen additional fuel dumps totaling 96,000 pounds near this area.
8. Part of Major Fuel Dumping Area 1.
9. Major Fuel Dumping Area 2.
10. Major Fuel Dumping Area 3.
11. Part of Major Fuel Dumping Area 4.
12. Part of Major Fuel Dumping Area 5.
13. Part of Major Fuel Dumping Area 6.
14. Part of Major Fuel Dumping Area 7.
15. Part of Major Fuel Dumping Area 8.
16. Part of Major Fuel Dumping Area 9.
17. Part of Major Fuel Dumping Area 10.

Plotting the data in Table 5 on a world map, a widely scattered distribution of occasional fuel dumps is noted, with significant concentrations in certain areas. Most of the fuel dumps and all the major concentrations are over the United States. A further investigation of fuel dumps over the continental United States reveals that virtually every fuel dump occurs near (i.e., in the same grid box as) an Air Force Base, usually a base supporting SAC or TAC aircraft. This is not an especially surprising finding, but it does indicate that Air Force fuel dumping, even in emergencies, is not randomly distributed but tends to occur near bases.

Several areas that experience the greatest number of fuel dumps and/or the largest total quantities of fuel released have been identified in Table 5. They are designated as Major Fuel Dumping Areas 1 to 10. All the fuel dumps in each of these areas were individually noted, and trends or patterns in the fuel dumping were sought. Additionally, the areas were checked for such factors as geography, land use, and the proximity of cities. The major fuel dumping areas, listed in roughly east-to-west order, and a summary of findings are given in Table 6.

TABLE 6. MAJOR DUMPING AREAS, DESCRIPTION OF AREAS,
AND SUMMARY OF FINDINGS

| Major Dumping Area | Description of Area | Summary of Findings |
|--------------------|---|---|
| 1 | 43-47° N, 68-74° W - Plattsburg AFB, NY, and Pease AFB, NH. | SAC accounted for 20 of the 21 fuel dumps, totaling 596,000 pounds. Nine fuel dumps, totaling more than 200,000 pounds, occurred in the single grid box 44-45° N, 73-74° W. Of the 20 SAC fuel dumps, 11 were by FB-111 aircraft, typically dumping from 10,000 to 20,000 pounds at 3,000 to 8,000 feet. The other nine fuel dumps were by KC-135 or RC-135 aircraft, dumping 20,000 to 90,000 pounds at about 20,000 feet. The area included parts of upstate New York, Vermont, New Hampshire, many small towns, Lake Champlain, the Adirondack Mountains, and within approximately 70 miles of Montreal. |
| 2 | 40-41° N, 95-96° W - Offutt AFB, Nebraska. | Eight SAC fuel dumps in this single grid box, totaling 295,000 pounds; all were made by EC-135, KC-135, or RC-135 aircraft. The altitude ranged from 10,000 to 27,000 feet (average 17,000 feet), and the quantities ranged from 10,000 to 60,000 pounds, with four fuel dumps of 40,000 pounds or more. The area covered western Iowa and the eastern Nebraska plains, Omaha, and some small cities. |

TABLE 6. MAJOR DUMPING AREAS, DESCRIPTION OF AREAS,
AND SUMMARY OF FINDINGS (Continued)

| Major Dumping Area | Description of Area | Summary of Findings |
|--------------------|--|---|
| 3 | <p>37-38° N, 97-98° W - McConnell AFB, Kansas.</p> | <p>Six SAC fuel dumps were made in this single grid box, totaling 205,000 pounds. All were made by KC-135 aircraft, typically flying at 22,000 feet and dumping from 20,000 to 55,000 pounds. The area included the Southern Kansas plains, Wichita, and some small cities.</p> |
| 4 | <p>31-36° N, 99-106° W These fuel dumps were actually separated by location and by command into three small subareas near four bases: (1) Dyess AFB and Carswell AFB, Texas: (2) Holloman AFB, New Mexico: (3) Cannon AFB, New Mexico:</p> | <p>Forty-four fuel dumps were made in this region, totaling 656,050 pounds.</p> <p>Seven SAC fuel dumps were made by KC-135 aircraft, totaling 376,000 pounds. The altitudes were around 20,000 feet. Five fuel dumps in the 60,000 to 70,000-pound range were made in Texas near Abilene.</p> <p>Ten fuel dumps were made by AFSC aircraft in trivial quantities.</p> <p>Twenty-seven fuel dumps were made by F-111 aircraft from TAC. First reported fuel dumps were in December 1974. The altitude ranged from 5,000 to 20,000 feet (mostly 10,000 to 12,000 feet); the quantities were all 16,000 pounds or less, with ten fuel dumps of 5,000 pounds or less. The area included the eastern New Mexico plateau, the cities of Clovis and Portales, and the area located about 80 miles from Albuquerque.</p> |

TABLE 6. MAJOR DUMPING AREAS, DESCRIPTION OF AREAS,
AND SUMMARY OF FINDINGS (Continued)

| Major Dumping Area | Description of Area | Summary of Findings |
|--------------------|--|--|
| 5 | 36-38° N, 114-116° W - Nellis AFB, Nevada. | <p>Fourteen fuel dumps were made by F-111 aircraft from TAC, totaling 124,500 pounds. Typical altitude ranged from 10,000 to 13,000 feet. Seven fuel dumps were of about 5,000 pounds each; other fuel dumps ranged from 12,000 to 19,000 pounds. The area included southern Nevada and Las Vegas.</p> |
| 6 | 36-40° N, 119-122° W - Castle AFB and McClellan AFB, California. | <p>Six fuel dumps were made by EC-121 aircraft from ADC, totaling 115,000 pounds. Fourteen fuel dumps were made by SAC KC-135 aircraft, totaling 500,000 pounds. Typical altitudes ranged from 7,000 to 8,000 feet for ADC aircraft and 20,000 to 25,000 feet for SAC aircraft. Quantities ranged from 7,000 to 30,000 pounds for ADC aircraft, and 8,000 to 67,000 pounds for SAC aircraft. The area included central California east of the mountains and Sacramento, Fresno, and other cities within approximately 80 miles of San Francisco.</p> |

TABLE 6. MAJOR DUMPING AREAS, DESCRIPTION OF AREAS,
AND SUMMARY OF FINDINGS (Continued)

| Major Dumping Area | Description of Area | Summary of Findings |
|--------------------|--|--|
| 7 | 42-44° N, 115-118° W - Mountain Home AFB, Idaho. | Thirty-three fuel dumps out of 34 were made by TAC F-111 aircraft, totaling 285,000 pounds. Twenty fuel dumps were made in the single grid box 42-43° N, 116-117° W. Typical altitudes ranged from 10,000 to 15,000 feet. Quantities ranged from 3,000 to 17,000 pounds. The area included southwestern Idaho and Boise. |
| 8 | 48-49° N, 116-117° W - near Fairchild AFB, Washington. | Six fuel dumps were made by KC-135 aircraft from SAC in this single grid box, totaling 347,000 pounds. Altitudes ranged from 20,000 to 28,000 feet. Quantities ranged from 40,000 to 80,000 pounds. The area included northern Idaho and eastern Washington. |
| 9 | 63-66° N, 146-148° W - Eielson AFB, Alaska. | Fourteen of the 15 fuel dumps were made by SAC KC-135 or RC-135 aircraft, totaling 734,000 pounds. Altitudes were almost all between 20,000 and 30,000 feet. Quantities ranged from 20,000 to 96,000 pounds with nine fuel dumps being over 50,000 pounds. The area covered included central Alaska and Fairbanks. |

TABLE 6. MAJOR DUMPING AREAS, DESCRIPTION OF AREAS,
AND SUMMARY OF FINDINGS (Concluded)

| Major Dumping Area | Description of Area | Summary of Findings |
|--------------------|--|---|
| 10 | 51-55° N, 172-176° E - Shemya AFB, Alaska. | Seventeen fuel dumps, all of which were made by SAC RC-135 aircraft with a total quantity of 350,000 pounds. No fuel dumps were reported after January 1975. Altitudes were around 20,000 feet. Quantities ranged from 9,000 to 33,000 pounds. The area included the tip of the Aleutian Islands. |

SECTION IV

DISTRIBUTION OF FUEL DUMPS BY QUANTITY DUMPED AND ALTITUDE

Fuel dumps were segregated according to whether they were by SAC or non-SAC aircraft and were grouped according to the size of the fuel dump in 10,000-pound intervals. The fuel dumps were also grouped by altitude in 1,000-foot ranges. The results are shown in Figures 1 and 2.

The segregation of fuel dumps into SAC and non-SAC aircraft fuel dumps was justified on the grounds that SAC aircraft account for most of the fuel dumps and most of the poundage and SAC flies a wholly different type of aircraft (KC-135 tankers) than the other commands. This segregation is further justified by the results. The quantity and altitude distributions for SAC aircraft fuel dumps are different from those of the remainder of the Air Force aircraft. Non-SAC aircraft fuel dumps peak at small sizes of 10,000 pounds or less and drop to virtually none above 20,000 pounds. SAC aircraft fuel dumps are significant and increase in number from 0 to 20,000 pounds, peak between 20,000 and 30,000 pounds, and remain significant through fuel dump sizes of 100,000 pounds (Figure 1). Almost all non-SAC aircraft fuel dumps occurred below 20,000 feet; a significant number of SAC aircraft fuel dumps occurred at these lower altitudes, but most SAC aircraft fuel dumps occurred between 20,000 and 30,000 feet (Figure 2).

The distribution of SAC aircraft fuel dumps appears to be similar at small sizes and low altitudes to that of non-SAC aircraft fuel dumps and to have an additional component of larger, higher-altitude fuel dumps. Scanning the tabulated data bears out this assumption and adds a further utility to it. Most non-SAC aircraft fuel dumps are by TAC aircraft, and virtually all of these are F-111 type. TAC F-111 aircraft fuel dumps were usually 20,000 pounds or less and occurred at altitudes of 20,000 feet or less. SAC aircraft fuel dumps by its FB-111 aircraft were distributed similarly. The larger, higher-altitude aircraft fuel dumps were from the KC-135 type aircraft which is unique to SAC. Thus, it is possible to group most Air Force aircraft fuel dumps into two classes:

- (1) F-111 class fuel dumps: TAC F-111s and SAC FB-111s; relatively small, low-altitude fuel dumps; 1,000 to 20,000 pounds, 1,000 to 20,000 feet.
- (2) KC-135 class fuel dumps: SAC RC-, KC-, and EC-135s; relatively large, high-altitude fuel dumps; 20,000 to 100,000 pounds, 20,000 to 30,000 feet.

Some EC-, KC-, and RC-135 fuel dumps appear in the F-111 class region but, for the most part, the dumps respect the class boundaries.

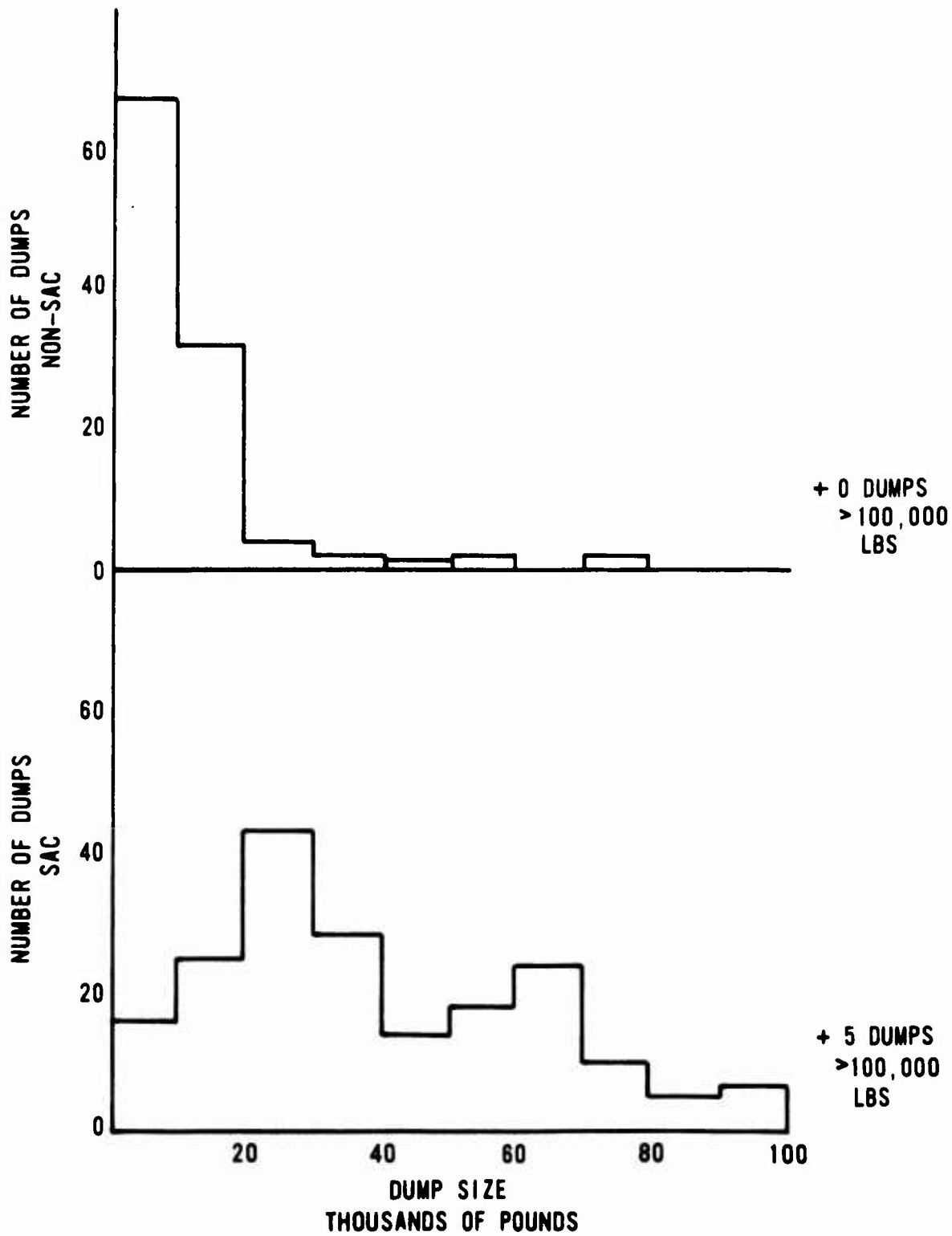


Figure 1. Distribution of Fuel Dumps by Size

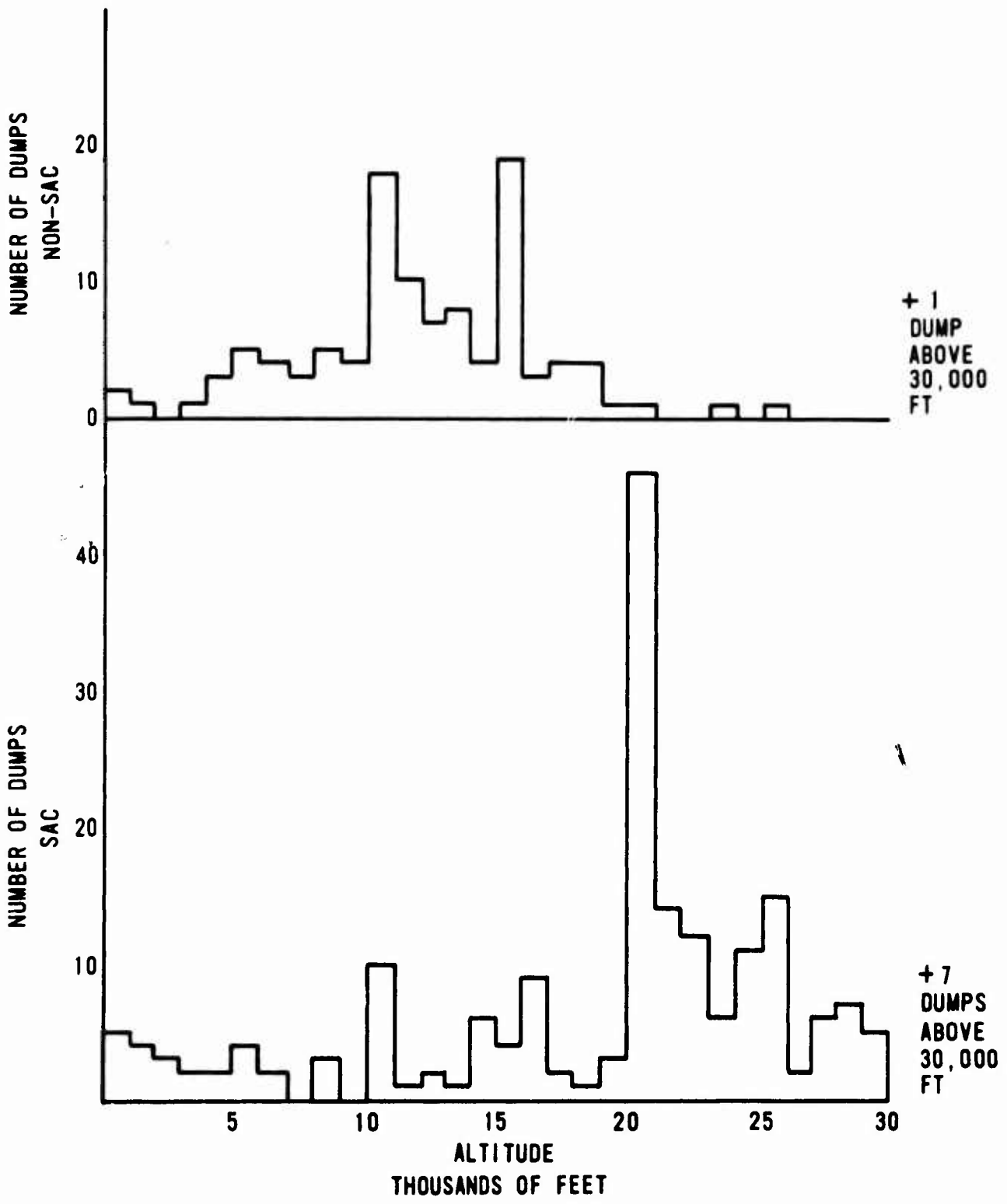


Figure 2. Distribution of Fuel Dumps by Altitude

SECTION V

SUMMARY AND DISCUSSION

The immediately striking feature of the data in Table 1 is the amount of fuel being jettisoned monthly, and the overwhelming role of SAC aircraft in the dumping. TAC has a subsidiary role in Air Force dumping and is the only other command of significance. In terms of number of dumps, SAC accounts for almost 64 percent and TAC almost 25 percent of Air Force totals, in terms of total poundage the contributions are SAC, 87 percent, and TAC 7 percent.

Fuel dump areas and procedures are designed to minimize the impact of authorized fuel dumping into the atmosphere. These areas are coordinated by the major commands with the Air Traffic Control Agency exercising jurisdiction over the location. Every attempt is made to locate these areas off federal airways and so that prevailing winds will not carry fuel spray to urban areas, agricultural regions, or water supply sources. Using dump areas over 20,000 feet above the terrain is preferred to take advantage of the fuel's volatility upon exposure to the higher atmosphere. These areas are normally used for all fuel dumping unless, during an aircraft emergency, the nature of the emergency precludes the use of the designated areas. In these cases, every effort is made to avoid populated areas. If fuel dumping is indeed harmful to the environment, the effects will most likely be felt in the areas of New England, the Midwest, and California designated Major Dumping Areas 1, 2 and 6, respectively, in this report.

Not only were two commands responsible for most Air Force fuel jettisoning, but only two types of aircraft (F-111 and KC-135) were significant sources of fuel dumps. The two types have distinct characteristic fuel dump sizes and altitudes. This division of fuel dumps according to aircraft type will simplify further study of the overall fuel dumping problem.

Further study of fuel dumping does indeed seem warranted, since major gaps remain in the current understanding of the subject. Also, the extent of Air Force fuel dumping indicated by this initial study suggests that resultant environmental impact may not be negligible. Furthermore, it is likely that in the future the Air Force will be required to account for the effects of fuel dumping in preparing environmental impact statements for its proposed operations.

Subsequent research in this project will concentrate on investigations of the physical behavior of jettisoned fuel after it is released (droplet formation and interaction with the aircraft wake, followed by fallout and/or evaporation) and of the photochemistry of the fuel vapor (its role in producing irritating or toxic air pollutants by chemical reaction in the atmosphere). Droplet formation needs to be better understood and, for this reason, actual measurements of jettisoned fuel droplets in an aircraft wake would be of great value. Because of the predominant role of KC-135 type aircraft in Air Force fuel dumping, a KC-135 is the obvious aircraft of choice

to perform fuel dumps for measurement. Arrangements are currently being made with AFSWC and AFCRL to supply a fuel dumping aircraft and a probe aircraft for this work. This effort is considered an important part of this project.

Photochemical investigations are being conducted in the laboratories of the Air Force Civil Engineering Center at Kirtland AFB. The chemical behavior of the fuel and the concurrent and subsequent dispersion of fuel vapor and reaction products depend on the initial conditions of fuel distribution, altitude, and presence of other chemical species in the aircraft exhaust. These conditions, in turn, depend on the fuel dump parameters of aircraft type, airspeed, fuel dump rate, fuel dump size, and altitude, as well as on meteorological conditions. Because Air Force fuel dumps can be divided into two distinct classes with fairly close internal similarity, conclusions of wide applicability should be possible by thoroughly investigating one simulated dump corresponding to a typical member of each class. Thus, the amount of experimental work would not be overwhelmingly great.

Typical members to study might be an F-111 fuel dump of 10,000 pounds at 10,000 feet, and a KC-135 fuel dump of 50,000 pounds at 20,000 feet. (Since there is a potential problem of ground contamination by JP-4 fuel released below a few thousand feet, it might be necessary to treat as a separate case an F-111 fuel dump at about 2,000 feet.) The results could presumably be scaled to give fair accuracy over the range of fuel dump sizes and altitudes in each class, and thus allow the prediction of the environmental impact of most instances of fuel jettisoning by the Air Force.

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