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# PROBABILITIES OF GOOD, MARGINAL, AND POOR FLYING CONDITIONS FOR SPACE SHUTTLE FERRY FLIGHTS

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16. ABSTRACT


Empirical probabilities are provided for good, marginal, and poor flying weather for ferrying the Space Shuttle Orbiter from Edwards AFB, California, to Kennedy Space Center, Florida, and from Edwards AFB to Marshall Space Flight Center, Alabama. Results are given by month for each overall route plus segments of each route. The Edwards AFB to Kennedy Space Center route is divided into three segments: (1) Edwards to Midland, Texas, (2) Midland, Texas, to Shreveport, Louisiana, and (3) Shreveport, Louisiana, to Kennedy Space Center. The Edwards AFB to Marshall Space Flight Center route utilizes only two segments: (1) Edwards AFB to Midland, Texas, and (2) Midland, Texas, to Huntsville, Alabama.

The report describes the criteria for defining a day as good, marginal, or poor and the method of computing the relative frequencies and conditional probabilities for monthly reference periods.


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## FOREWORD

The purpose of this report is to present empirical probabilities of good, marginal, or poor Orbiter ferry weather across the southern United States from Edwards AFB, California, to Kennedy Space Center, Florida, and from Edwards AFB to Marshall Space Flight Center, Alabama.

To develop these probability statements, it was first necessary to establish criteria by which good, marginal, and poor enroute ferry flight weather could be identified from a surface weather map. Current Orbiter ferry guidelines received from NASA/Johnson Space Center indicate that ferry flights are to be conducted under VFR and are to avoid turbulence. The criteria listed on page 1 were selected as indicators of turbulence or thick clouds that would make VFR flight difficult or impossible. An interpretation of each category is:

Good – No indications of turbulence.[1] No thick clouds to hinder VFR flight.

Margin – Some turbulent areas present. Some thick or layered clouds, making VFR flight doubtful.

Poor – Turbulence very likely. Thick clouds present precluding VFR flight.

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[1] CAT indicators were not included in this study.

Several examples of questions that can be answered from the tables provided are given on page 5.

Weather requirements (especially light ground winds at Marshall Space Flight Center) for the Orbiter/Carrier aircraft demate operation were not considered in this study. If several hours of light winds at the terminal were to become a prerequisite for the ferry operation, the "good" probability values in this report would be reduced considerably.


## AUTHORS' ACKNOWLEDGMENT

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## Section I

## INTRODUCTION

Current plans call for the Space Shuttle Orbiter to be ferried on the 747 Carrier Aircraft from Edwards Air Force Base, CA to Kennedy Space Center, FL and to Marshall Space Flight Center, AL. This study provides the empirical probability of having one day of good, marginal and poor flying weather each month across the southern United States conditional upon the prior one, two and three days' flying weather. Results are given by month for each overall route plus segments of each route. The Edwards AFB to KSC route is divided into three segments: Western-Edwards to Midland, TX; Middle-Midland, TX to Shreveport, LA; Eastern-Shreveport, LA to Kennedy Space Center. The Edwards AFB to Marshall Space Flight Center route utilizes only two segments; Western-Edwards to Midland, TX; Eastern-Midland, TX to Huntsville, AL.

Eleven years (1966-76) of the 0700 EST Daily Weather Maps (1) were examined along the proposed route. Each of the three segments was classified as good (1), marginal (2) or poor (3) for aircraft operations using the following criteria:

| | | |
|---|---|---|
| Good (1) | (a) | no fronts |
| | (b) | no gusts or squall lines |
| | (c) | terminal conditions VFR |
| | (d) | no thunderstorms |
| | (e) | no significant precipitation occurring |
| Marginal (2) | (a) | frontal system diffuse or dissipating (frontolysis) |
| | (b) | terminal conditions expected to deteriorate within 6 hours to <VFR |
| | (c) | isolated thunderstorms |

| | | |
|---|---|---|
| | (d) | some widespread middle or high cloud cover |
| | (e) | isolated precipitation areas |
| Poor (3) | (a) | well developed frontal system or frontogenesis |
| | (b) | gustiness or squall lines |
| | (c) | terminal conditions <VFR now |
| | (d) | line of well developed thunderstorms |
| | (e) | widespread middle or low cloud cover |
| | (f) | broad band of precipitation occurring |

The coded data for each segment for each of the 4,018 days were placed on magnetic tape in chronological order. The code numbers 1, 2 and 3 describe the good, marginal and poor weather conditions, while their position on tape determines the route segment being described. For example, the symbolic form is W,M,E; W,M,E; W,M,E; W,M,E; and the actual data might be 111, 111, 111, 123 for any four days. The coded data were inventoried and edited for serial completeness prior to processing.

## Section II

## PROGRAM AND ANALYSIS

The program examines the daily codes and identifies overlapping sequences of two, three and four days. The last day of each sequence is considered to be the post condition, while the other days in the sequence are considered to be the prior condition. All days in each prior condition are, by definition, of the same type. In the example given in the introduction, an analysis of the Western segment would show one sequence of 3 prior good days and 1 post good day. It also would show: two sequences of 2 prior good days and 1 post good day; and three sequences of 1 prior good day and 1 post good day.

The same procedure is followed for each segment. When the entire route is analyzed, all three codes (W,M,E) must be examined each day. The criteria for good is that all positions be coded "1"; for marginal, at least one segment of the route must be a "2", but none can be a "3", while for poor conditions, at least one segment must be a "3". In the above example, the ENTIRE ROUTE analysis would show one sequence of 3 prior good days and 1 post poor day. It also would show: one sequence of 2 prior good days and 1 post good day; one sequence of 2 prior good days and 1 post poor day; two sequences of 1 prior good day and 1 post good day and one sequence of 1 prior good day and 1 post poor day.

## Section III

### Figures and Tables

The figures show the percent frequency of occurrence of at least one and two good, marginal, and poor days over the entire ferry route from Edwards AFB to Kennedy Space Center. For example, of the 341 days in the 11 Januaries 103 or 30.2% were good, 178 or 52.2% were marginal, and 60 or 17.6% were poor. These are the values shown by bar graphs for January in Figure 1. Those in Figure 2 were counted in a similar way - there were 56 occassions (16.4%) when the entire route was classified good on at least two successive days. The marginal or poor classification was assigned if any part of the route fell into that category.

The tables show the frequency (F), conditional empirical probabilities (CP) and the empirical probability of having the indicated types of days followed by a good, marginal, or poor day (%). Total frequencies are shown for each type (TOT F) and a grand total (N) gives the number of observations for each month for the 11-year period.

The other headings are explained as follows:

TYPE: This is the condition of the current day, or days, while the condition of the day following is shown in the frequency columns of the good, marginal and poor fields across the page.

DAYS: This is the number of days defined by type. A "1" is added to the appropriate frequency cell under the proper field.

CP and %: These columns contain the conditional probabilities and percentages, where

CP = F/TOTAL F

% = F/N

The following series of questions and answers illustrate some of the information the mission planner can obtain from the tables. Table 1 Edwards AFB to Kennedy Space Center, Entire Route, January is used in all examples.

Q. What are the chances of having a good day over the entire route?

A. Of the 341 days examined 103 were good. 103/341 = 0.302 or 30.2%.

Q. How many times did 2 successive good days occur? 3 good days? 4 good days?

A. Two successive good days occurred 56 times. Three successive good days occurred 30 times. Four successive good days occurred 13 times.

Q. What is the probability (%) of 2,3,4 successive good days?

A. (56 ÷ 341) x 100 = 16.4%; (30/341) x 100 = 8.8%; (13/341) x 100 = 3.8%.

Q. What is the conditional probability (¢) that tomorrow will be good given that today is good?

A. (56/103) x 100 = 54.4%.

Q. Suppose it is known that the entire route has been good for 2 days. What is the conditional probability (%) that tomorrow will be good? Marginal? Poor?

A.

| | |
|---|---|
| Good | (30/56) x 100 = 53.6% |
| Marginal | (18/56) x 100 = 32.1% |
| Poor | (8/56) x 100 = 14.3% |

Q. On how many days and with what percent frequency did at least one segment of the route have poor weather?

A. 60 days
(60/341) x 100 = 17.6%

## Section IV

## CONCLUSIONS

The tables show that the greatest likelihood of having two, three and four consecutive days of favorable weather along the entire route is during the months of June, July and August, while the least favorable months are April and November. In addition, all three segments show the highest percentages of good conditions during the summer months.

These tables should prove useful in determining the months with the optimum flying weather as well as the likelihood of having 2, 3 or 4 consecutive good days along each segment of the route.

FIGURE 1

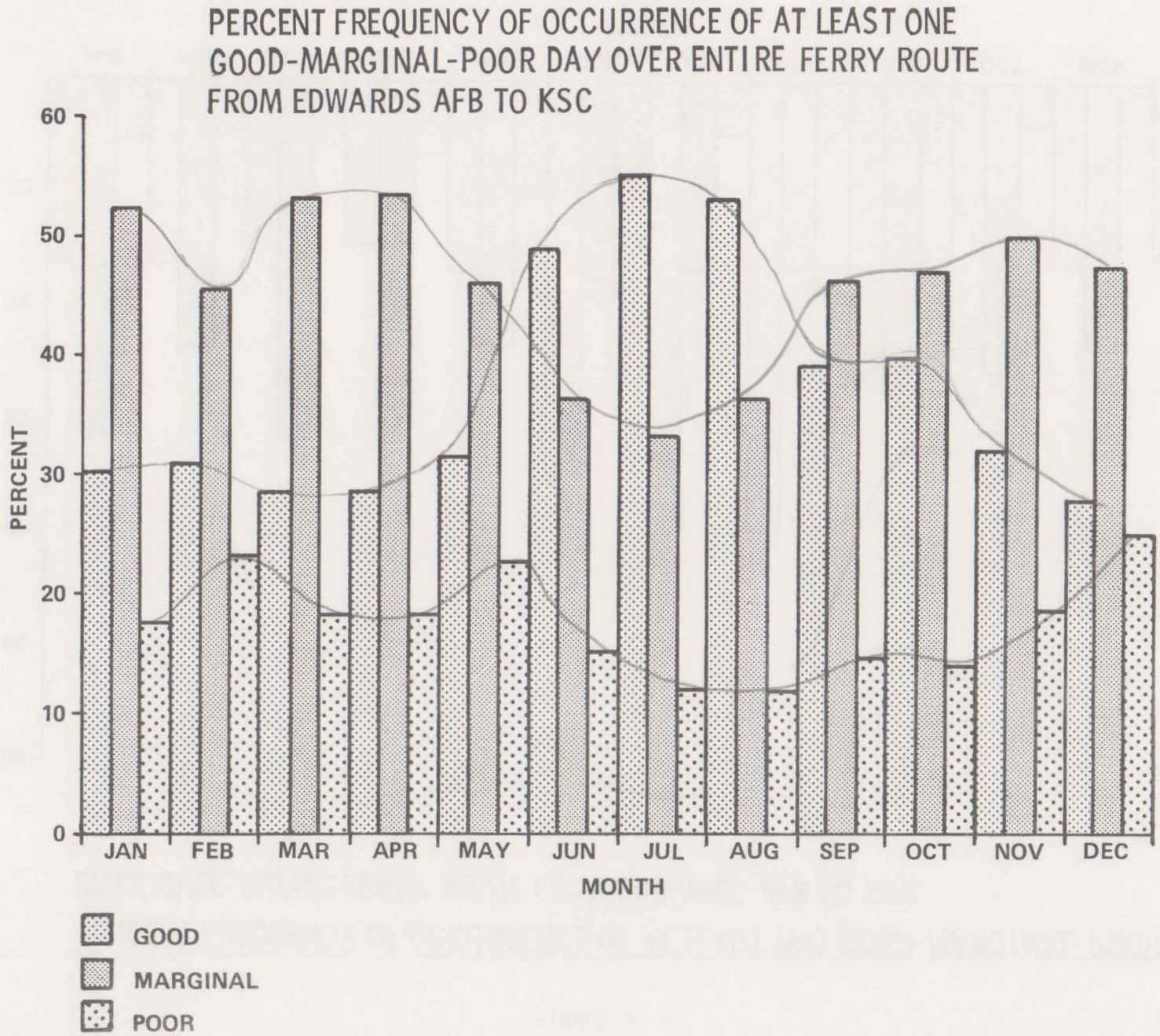
PERCENT FREQUENCY OF OCCURRENCE OF AT LEAST ONE GOOD-MARGINAL-POOR DAY OVER ENTIRE FERRY ROUTE FROM EDWARDS AFB TO KSC
PERCENT
60
50
40
30
20
10
0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
MONTH
GOOD
MARGINAL
POOR

FIGURE 2

PERCENT FREQUENCY OF OCCURRENCE OF AT LEAST TWO GOOD-MARGINAL-POOR DAYS OVER ENTIRE FERRY ROUTE FROM EDWARDS AFB TO KSC

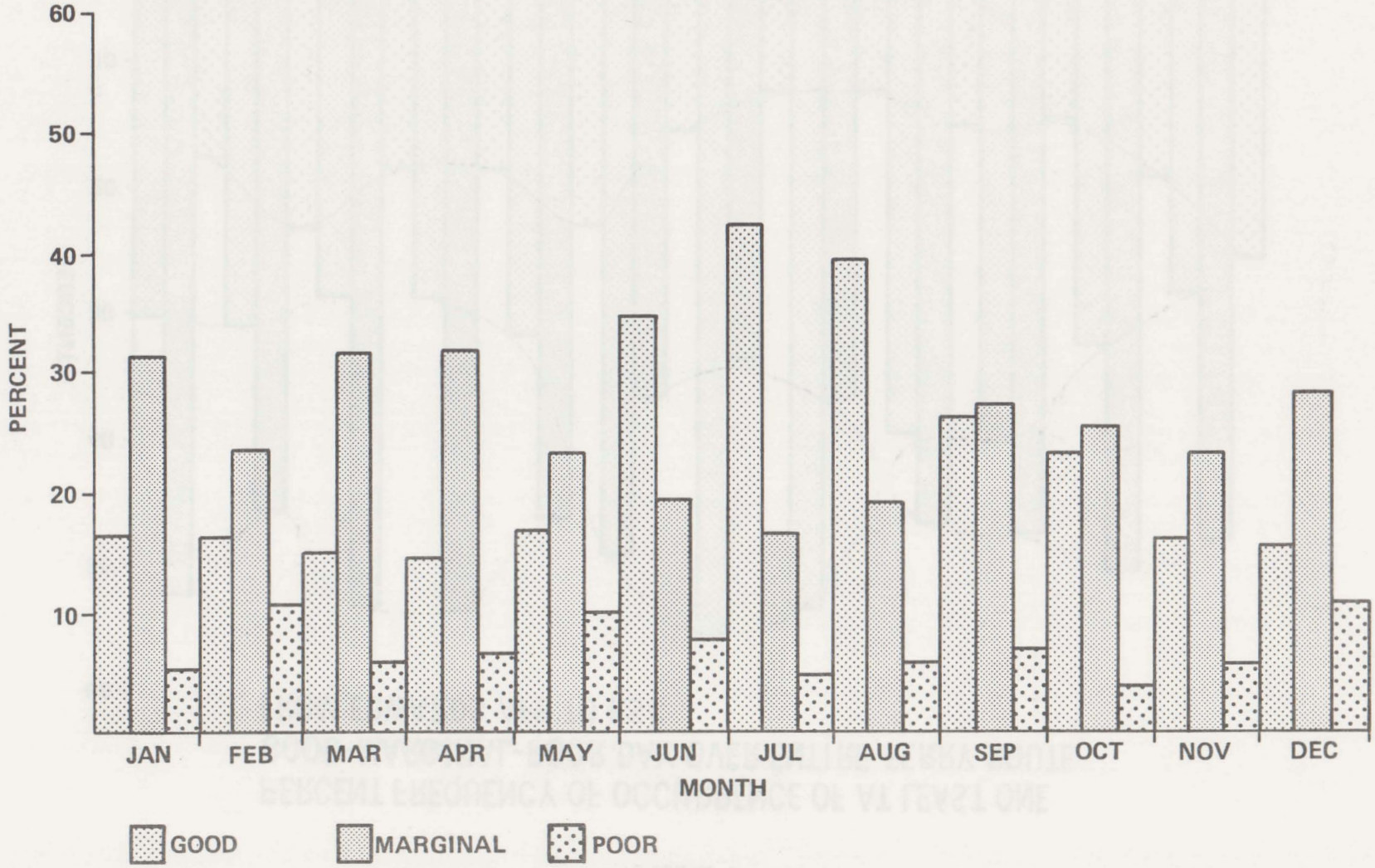

TABLE 1 EDWARDS AFB TO KENNEDY SPACE CENTER
ENTIRE ROUTE

| YR | MO | TYPE | DAYS | GOOD F | GOOD CP | GOOD % | MARGINAL F | MARGINAL CP | MARGINAL % | POOR F | POOR CP | POOR % | TOTAL F | TOTAL % | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 66-76 | 1 | GOOD | 1 | 56 | 54.4 | 16.4 | 37 | 35.9 | 10.9 | 10 | 9.7 | 2.9 | 103 | 30.2 | 341 |
| | | | 2 | 30 | 53.6 | 8.8 | 18 | 32.1 | 5.3 | 8 | 14.3 | 2.3 | 56 | | |
| | | | 3 | 13 | 43.3 | 3.8 | 10 | 33.3 | 2.9 | 7 | 23.3 | 2.1 | 30 | | |
| | | MARG | 1 | 39 | 21.9 | 11.4 | 106 | 59.6 | 31.1 | 33 | 18.5 | 9.7 | 178 | 52.2 | |
| | | | 2 | 18 | 17.8 | 5.3 | 65 | 64.4 | 19.1 | 18 | 17.8 | 5.3 | 101 | | |
| | | | 3 | 10 | 16.1 | 2.9 | 43 | 69.4 | 12.6 | 9 | 14.5 | 2.6 | 62 | | |
| | | POOR | 1 | 6 | 10.0 | 1.8 | 37 | 61.7 | 10.9 | 17 | 28.3 | 5.0 | 60 | 17.6 | |
| | | | 2 | 1 | 5.9 | .3 | 12 | 70.6 | 3.5 | 4 | 23.5 | 1.2 | 17 | | |
| | | | 3 | 1 | 25.0 | .3 | 2 | 50.0 | .6 | 1 | 25.0 | .3 | 4 | | |
| | 2 | GOOD | 1 | 51 | 52.6 | 16.4 | 37 | 38.1 | 11.9 | 9 | 9.3 | 2.9 | 97 | 31.2 | 311 |
| | | | 2 | 20 | 40.8 | 6.4 | 24 | 49.0 | 7.7 | 5 | 10.2 | 1.6 | 49 | | |
| | | | 3 | 6 | 33.3 | 1.9 | 9 | 50.0 | 2.9 | 3 | 16.7 | 1.0 | 18 | | |
| | | MARG | 1 | 41 | 28.9 | 13.2 | 73 | 51.4 | 23.5 | 28 | 19.7 | 9.0 | 142 | 45.7 | |
| | | | 2 | 23 | 32.9 | 7.4 | 31 | 44.3 | 10.0 | 16 | 22.9 | 5.1 | 70 | | |
| | | | 3 | 11 | 36.7 | 3.5 | 10 | 33.3 | 3.2 | 9 | 30.0 | 2.9 | 30 | | |
| | | POOR | 1 | 8 | 11.1 | 2.6 | 31 | 43.1 | 10.0 | 33 | 45.8 | 10.6 | 72 | 23.2 | |
| | | | 2 | 5 | 15.2 | 1.6 | 15 | 45.5 | 4.8 | 13 | 39.4 | 4.2 | 33 | | |
| | | | 3 | 1 | 7.7 | .3 | 6 | 46.2 | 1.9 | 6 | 46.2 | 1.9 | 13 | | |
| | 3 | GOOD | 1 | 51 | 52.0 | 15.0 | 42 | 42.9 | 12.3 | 5 | 5.1 | 1.5 | 98 | 28.7 | 341 |
| | | | 2 | 25 | 51.0 | 7.3 | 21 | 42.9 | 6.2 | 3 | 6.1 | .9 | 49 | | |
| | | | 3 | 12 | 50.0 | 3.5 | 11 | 45.8 | 3.2 | 1 | 4.2 | .3 | 24 | | |
| | | MARG | 1 | 36 | 19.9 | 10.6 | 107 | 59.1 | 31.4 | 38 | 21.0 | 11.1 | 181 | 53.1 | |
| | | | 2 | 18 | 17.5 | 5.3 | 61 | 59.2 | 17.9 | 24 | 23.3 | 7.0 | 103 | | |
| | | | 3 | 12 | 20.3 | 3.5 | 36 | 61.0 | 10.6 | 11 | 18.6 | 3.2 | 59 | | |
| | | POOR | 1 | 10 | 16.1 | 2.9 | 32 | 51.6 | 9.4 | 20 | 32.3 | 5.9 | 62 | 18.2 | |
| | | | 2 | 3 | 15.8 | .9 | 10 | 52.6 | 2.9 | 6 | 31.6 | 1.8 | 19 | | |
| | | | 3 | | | | 2 | 40.0 | .6 | 3 | 60.0 | .9 | 5 | | |
| | 4 | GOOD | 1 | 48 | 51.1 | 14.5 | 41 | 43.6 | 12.4 | 5 | 5.3 | 1.5 | 94 | 28.5 | 330 |
| | | | 2 | 21 | 43.8 | 6.4 | 23 | 47.9 | 7.0 | 4 | 8.3 | 1.2 | 48 | | |
| | | | 3 | 7 | 33.3 | 2.1 | 13 | 61.9 | 3.9 | 1 | 4.8 | .3 | 21 | | |
| | | MARG | 1 | 34 | 19.3 | 10.3 | 105 | 59.7 | 31.8 | 37 | 21.0 | 11.2 | 176 | 53.3 | |
| | | | 2 | 17 | 16.7 | 5.2 | 60 | 58.8 | 18.2 | 25 | 24.5 | 7.6 | 102 | | |
| | | | 3 | 8 | 13.8 | 2.4 | 37 | 63.8 | 11.2 | 13 | 22.4 | 3.9 | 58 | | |
| | | POOR | 1 | 11 | 18.3 | 3.3 | 28 | 46.7 | 8.5 | 21 | 35.0 | 6.4 | 60 | 18.2 | |
| | | | 2 | 5 | 25.0 | 1.5 | 8 | 40.0 | 2.4 | 7 | 35.0 | 2.1 | 20 | | |
| | | | 3 | 1 | 16.7 | .3 | 2 | 33.3 | .6 | 3 | 50.0 | .9 | 6 | | |

TABLE 1 EDWARDS AFB TO KENNEDY SPACE CENTER
ENTIRE ROUTE

| ENTIRE ROUTE | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 5 | GOOD | 1 | 58 | 54.2 | 17.0 | 41 | 38.3 | 12.0 | 8 | 7.5 | 2.3 | 107 | 31.4 | 341 |
| | | | 2 | 33 | 56.9 | 9.7 | 21 | 36.2 | 6.2 | 4 | 6.9 | 1.2 | 58 | | |
| | | | 3 | 17 | 51.5 | 5.0 | 13 | 39.4 | 3.8 | 3 | 9.1 | .9 | 33 | | |
| | | MARG | 1 | 42 | 26.8 | 12.3 | 80 | 51.0 | 23.5 | 35 | 22.3 | 10.3 | 157 | 46.0 | |
| | | | 2 | 20 | 26.0 | 5.9 | 40 | 51.9 | 11.7 | 17 | 22.1 | 5.0 | 77 | | |
| | | | 3 | 12 | 30.8 | 3.5 | 21 | 53.8 | 6.2 | 6 | 15.4 | 1.8 | 39 | | |
| | | POOR | 1 | 6 | 7.8 | 1.8 | 37 | 48.1 | 10.9 | 34 | 44.2 | 10.0 | 77 | 22.6 | |
| | | | 2 | 3 | 9.1 | .9 | 15 | 45.5 | 4.4 | 15 | 45.5 | 4.4 | 33 | | |
| | | | 3 | 3 | 20.0 | .9 | 10 | 66.7 | 2.9 | 2 | 13.3 | .6 | 15 | | |
| | 6 | GOOD | 1 | 114 | 70.8 | 34.5 | 33 | 20.5 | 10.0 | 14 | 8.7 | 4.2 | 161 | 43.8 | 330 |
| | | | 2 | 74 | 68.5 | 22.4 | 29 | 26.9 | 8.8 | 5 | 4.6 | 1.5 | 108 | | |
| | | | 3 | 46 | 66.7 | 13.9 | 19 | 27.5 | 5.8 | 4 | 5.8 | 1.2 | 69 | | |
| | | MARG | 1 | 47 | 39.5 | 14.2 | 65 | 54.6 | 19.7 | 7 | 5.9 | 2.1 | 119 | 36.1 | |
| | | | 2 | 20 | 31.3 | 6.1 | 40 | 62.5 | 12.1 | 4 | 6.3 | 1.2 | 64 | | |
| | | | 3 | 13 | 32.5 | 3.9 | 26 | 65.0 | 7.9 | 1 | 2.5 | .3 | 40 | | |
| | | POOR | 1 | 6 | 12.0 | 1.8 | 18 | 36.0 | 5.5 | 26 | 52.0 | 7.9 | 50 | 15.2 | |
| | | | 2 | 1 | 4.0 | .3 | 12 | 48.0 | 3.6 | 12 | 48.0 | 3.6 | 25 | | |
| | | | 3 | 1 | 8.3 | .3 | 4 | 33.3 | 1.2 | 7 | 58.3 | 2.1 | 12 | | |
| | 7 | GOOD | 1 | 144 | 77.0 | 42.2 | 40 | 21.4 | 11.7 | 3 | 1.6 | .9 | 187 | 54.8 | 341 |
| | | | 2 | 113 | 79.6 | 33.1 | 27 | 19.0 | 7.9 | 2 | 1.4 | .6 | 142 | | |
| | | | 3 | 96 | 86.5 | 28.2 | 14 | 12.6 | 4.1 | 1 | .9 | .3 | 111 | | |
| | | MARG | 1 | 34 | 30.1 | 10.0 | 57 | 50.4 | 16.7 | 22 | 19.5 | 6.5 | 113 | 33.1 | |
| | | | 2 | 12 | 22.6 | 3.5 | 28 | 52.8 | 8.2 | 13 | 24.5 | 3.8 | 53 | | |
| | | | 3 | 5 | 20.0 | 1.5 | 13 | 52.0 | 3.8 | 7 | 28.0 | 2.1 | 25 | | |
| | | POOR | 1 | 5 | 12.2 | 1.5 | 20 | 48.8 | 5.9 | 16 | 39.0 | 4.7 | 41 | 12.0 | |
| | | | 2 | 1 | 6.3 | .3 | 7 | 43.8 | 2.1 | 8 | 50.0 | 2.3 | 16 | | |
| | | | 3 | | | | 3 | 37.5 | .9 | 5 | 62.5 | 1.5 | 8 | | |
| | 8 | GOOD | 1 | 135 | 75.8 | 39.6 | 39 | 21.9 | 11.4 | 4 | 2.2 | 1.2 | 178 | 52.2 | 341 |
| | | | 2 | 102 | 77.9 | 29.9 | 26 | 19.8 | 7.6 | 3 | 2.3 | .9 | 131 | | |
| | | | 3 | 78 | 78.8 | 22.9 | 19 | 19.2 | 5.6 | 2 | 2.0 | .6 | 99 | | |
| | | MARG | 1 | 41 | 33.3 | 12.0 | 66 | 53.7 | 19.4 | 16 | 13.0 | 4.7 | 123 | 36.1 | |
| | | | 2 | 20 | 30.8 | 5.9 | 36 | 55.4 | 10.6 | 9 | 13.8 | 2.6 | 65 | | |
| | | | 3 | 10 | 28.6 | 2.9 | 20 | 57.1 | 5.9 | 5 | 14.3 | 1.5 | 35 | | |
| | | POOR | 1 | 4 | 10.0 | 1.2 | 16 | 40.0 | 4.7 | 20 | 50.0 | 5.9 | 40 | 11.7 | |
| | | | 2 | 2 | 10.0 | .6 | 6 | 30.0 | 1.8 | 12 | 60.0 | 3.5 | 20 | | |
| | | | 3 | 1 | 8.3 | .3 | 4 | 33.3 | 1.2 | 7 | 58.3 | 2.1 | 12 | | |

TABLE 1 EDWARDS AFB TO KENNEDY SPACE CENTER
ENTIRE ROUTE

| ENTIRE ROUTE | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 9 | GOOD | 1 | 86 | 66.7 | 26.1 | 36 | 27.9 | 10.9 | 7 | 5.4 | 2.1 | 129 | 39.1 | 330 |
| | | | 2 | 54 | 66.7 | 16.4 | 26 | 32.1 | 7.9 | 1 | 1.2 | .3 | 81 | | |
| | | | 3 | 34 | 68.0 | 10.3 | 16 | 32.0 | 4.8 | | | | 50 | | |
| | | MARG | 1 | 42 | 27.6 | 12.7 | 90 | 59.2 | 27.3 | 20 | 13.2 | 6.1 | 152 | 46.1 | |
| | | | 2 | 25 | 28.4 | 7.6 | 49 | 55.7 | 14.8 | 14 | 15.9 | 4.2 | 88 | | |
| | | | 3 | 10 | 20.8 | 3.0 | 27 | 56.3 | 8.2 | 11 | 22.9 | 3.3 | 48 | | |
| | | POOR | 1 | 3 | 6.1 | .9 | 23 | 46.9 | 7.0 | 23 | 46.9 | 7.0 | 49 | 14.8 | |
| | | | 2 | 2 | 8.7 | .6 | 10 | 43.5 | 3.0 | 11 | 47.8 | 3.3 | 23 | | |
| | | | 3 | 1 | 9.1 | .3 | 5 | 45.5 | 1.5 | 5 | 45.5 | 1.5 | 11 | | |
| | 10 | GOOD | 1 | 79 | 58.5 | 23.2 | 50 | 37.0 | 14.7 | 6 | 4.4 | 1.8 | 135 | 39.6 | 341 |
| | | | 2 | 46 | 59.0 | 13.5 | 29 | 37.2 | 8.5 | 3 | 3.8 | .9 | 78 | | |
| | | | 3 | 25 | 55.6 | 7.3 | 17 | 37.8 | 5.0 | 3 | 6.7 | .9 | 45 | | |
| | | MARG | 1 | 46 | 28.8 | 13.5 | 87 | 54.4 | 25.5 | 27 | 16.9 | 7.9 | 160 | 46.9 | |
| | | | 2 | 26 | 30.2 | 7.6 | 50 | 58.1 | 14.7 | 10 | 11.6 | 2.9 | 86 | | |
| | | | 3 | 16 | 32.7 | 4.7 | 26 | 53.1 | 7.6 | 7 | 14.3 | 2.1 | 49 | | |
| | | POOR | 1 | 6 | 13.0 | 1.8 | 27 | 58.7 | 7.9 | 13 | 28.3 | 3.8 | 46 | 13.5 | |
| | | | 2 | 1 | 8.3 | .3 | 9 | 75.0 | 2.6 | 2 | 16.7 | .6 | 12 | | |
| | | | 3 | | | | 1 | 100.0 | .3 | | | | 1 | | |
| | 11 | GOOD | 1 | 53 | 50.5 | 16.1 | 44 | 41.9 | 13.3 | 8 | 7.6 | 2.4 | 105 | 31.8 | 330 |
| | | | 2 | 26 | 51.0 | 7.9 | 20 | 39.2 | 6.1 | 5 | 9.8 | 1.5 | 51 | | |
| | | | 3 | 10 | 41.7 | 3.0 | 11 | 45.8 | 3.3 | 3 | 12.5 | .9 | 24 | | |
| | | MARG | 1 | 47 | 28.7 | 14.2 | 84 | 51.2 | 25.5 | 33 | 20.1 | 10.0 | 164 | 49.7 | |
| | | | 2 | 24 | 29.3 | 7.3 | 41 | 50.0 | 12.4 | 17 | 20.7 | 5.2 | 82 | | |
| | | | 3 | 13 | 31.7 | 3.9 | 20 | 48.8 | 6.1 | 8 | 19.5 | 2.4 | 41 | | |
| | | POOR | 1 | 5 | 8.2 | 1.5 | 37 | 60.7 | 11.2 | 19 | 31.1 | 5.8 | 61 | 18.5 | |
| | | | 2 | 3 | 15.8 | .9 | 13 | 68.4 | 3.9 | 3 | 15.8 | .9 | 19 | | |
| | | | 3 | | | | 2 | 66.7 | .6 | 1 | 33.3 | .3 | 3 | | |
| | 12 | GOOD | 1 | 53 | 56.4 | 15.5 | 28 | 29.8 | 8.2 | 13 | 13.8 | 3.8 | 94 | 27.6 | 341 |
| | | | 2 | 27 | 50.9 | 7.9 | 19 | 35.8 | 5.6 | 7 | 13.2 | 2.1 | 53 | | |
| | | | 3 | 14 | 51.9 | 4.1 | 9 | 33.3 | 2.6 | 4 | 14.8 | 1.2 | 27 | | |
| | | MARG | 1 | 28 | 17.4 | 8.2 | 97 | 60.2 | 28.4 | 36 | 22.4 | 10.6 | 161 | 47.2 | |
| | | | 2 | 17 | 18.3 | 5.0 | 56 | 60.2 | 16.4 | 20 | 21.5 | 5.9 | 93 | | |
| | | | 3 | 11 | 20.4 | 3.2 | 35 | 64.8 | 10.3 | 8 | 14.8 | 2.3 | 54 | | |
| | | POOR | 1 | 14 | 16.5 | 4.1 | 34 | 40.0 | 10.0 | 37 | 43.5 | 10.9 | 85 | 24.9 | |
| | | | 2 | 8 | 22.2 | 2.3 | 14 | 38.9 | 4.1 | 14 | 38.9 | 4.1 | 36 | | |
| | | | 3 | 4 | 30.8 | 1.2 | 4 | 30.8 | 1.2 | 5 | 38.5 | 1.5 | 13 | | |

TABLE 2 EDWARDS AFB TO KENNEDY SPACE CENTER
WESTERN SEGMENT-EAFB TO MIDLAND, TX.

| WESTERN | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 1 | GOOD | 1 | 223 | 83.8 | 65.4 | 42 | 15.8 | 12.3 | 1 | .4 | .3 | 266 | 78.0 | 341 |
| | | | 2 | 183 | 83.9 | 53.7 | 34 | 15.6 | 10.0 | 1 | .5 | .3 | 218 | | |
| | | | 3 | 149 | 83.7 | 43.7 | 28 | 15.7 | 8.2 | 1 | .6 | .3 | 178 | | |
| | | MARG | 1 | 42 | 58.3 | 12.3 | 28 | 38.9 | 8.2 | 2 | 2.8 | .6 | 72 | 21.1 | |
| | | | 2 | 15 | 57.7 | 4.4 | 10 | 38.5 | 2.9 | 1 | 3.8 | .3 | 26 | | |
| | | | 3 | 7 | 70.0 | 2.1 | 2 | 20.0 | .6 | 1 | 10.0 | .3 | 10 | | |
| | | POOR | 1 | | | | 3 | 100.0 | .9 | | | | 3 | .9 | |
| | | | 2 | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | |
| | 2 | GOOD | 1 | 170 | 76.6 | 54.7 | 47 | 21.2 | 15.1 | 5 | 2.3 | 1.6 | 222 | 71.4 | 311 |
| | | | 2 | 123 | 76.4 | 39.5 | 34 | 21.1 | 10.9 | 4 | 2.5 | 1.3 | 161 | | |
| | | | 3 | 86 | 73.5 | 27.7 | 28 | 23.9 | 9.0 | 3 | 2.6 | 1.0 | 117 | | |
| | | MARG | 1 | 49 | 62.8 | 15.8 | 26 | 33.3 | 8.4 | 3 | 3.8 | 1.0 | 78 | 25.1 | |
| | | | 2 | 18 | 69.2 | 5.8 | 6 | 23.1 | 1.9 | 2 | 7.7 | .6 | 26 | | |
| | | | 3 | 5 | 83.3 | 1.6 | | | | 1 | 16.7 | .3 | 6 | | |
| | | POOR | 1 | 4 | 36.4 | 1.3 | 4 | 36.4 | 1.3 | 3 | 27.3 | 1.0 | 11 | 3.5 | |
| | | | 2 | 2 | 66.7 | .6 | | | | 1 | 33.3 | .3 | 3 | | |
| | | | 3 | 1 | 100.0 | .3 | | | | | | | 1 | | |
| | 3 | GOOD | 1 | 191 | 77.6 | 56.0 | 53 | 21.5 | 15.5 | 2 | .8 | .6 | 246 | 72.1 | 341 |
| | | | 2 | 140 | 76.1 | 41.1 | 42 | 22.8 | 12.3 | 2 | 1.1 | .6 | 184 | | |
| | | | 3 | 106 | 78.5 | 31.1 | 28 | 20.7 | 8.2 | 1 | .7 | .3 | 135 | | |
| | | MARG | 1 | 51 | 57.3 | 15.0 | 34 | 38.2 | 10.0 | 4 | 4.5 | 1.2 | 89 | 26.1 | |
| | | | 2 | 19 | 55.9 | 5.6 | 12 | 35.3 | 3.5 | 3 | 8.8 | .9 | 34 | | |
| | | | 3 | 8 | 66.7 | 2.3 | 2 | 16.7 | .6 | 2 | 16.7 | .6 | 12 | | |
| | | POOR | 1 | 4 | 66.7 | 1.2 | 2 | 33.3 | .6 | | | | 6 | 1.8 | |
| | | | 2 | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | |
| | 4 | GOOD | 1 | 205 | 82.3 | 62.1 | 44 | 17.7 | 13.3 | | | | 249 | 75.5 | 330 |
| | | | 2 | 161 | 82.1 | 48.8 | 35 | 17.9 | 10.6 | | | | 196 | | |
| | | | 3 | 128 | 83.1 | 38.8 | 26 | 16.9 | 7.9 | | | | 154 | | |
| | | MARG | 1 | 42 | 55.3 | 12.7 | 30 | 39.5 | 9.1 | 4 | 5.3 | 1.2 | 76 | 23.0 | |
| | | | 2 | 18 | 62.1 | 5.5 | 9 | 31.0 | 2.7 | 2 | 6.9 | .6 | 29 | | |
| | | | 3 | 4 | 50.0 | 1.2 | 4 | 50.0 | 1.2 | | | | 8 | | |
| | | POOR | 1 | 3 | 60.0 | .9 | 1 | 20.0 | .3 | 1 | 20.0 | .3 | 5 | 1.5 | |
| | | | 2 | 1 | 100.0 | .3 | | | | | | | 1 | | |
| | | | 3 | | | | | | | | | | | | |

TABLE 2 EDWARDS AFB TO KENNEDY SPACE CENTER
WESTERN SEGMENT-EAFB TO MIDLAND, TX.

| WESTERN | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 5 | GOOD | 1 | 227 | 82.8 | 66.6 | 45 | 16.4 | 13.2 | 2 | .7 | .6 | 274 | 80.4 | 341 |
| | | | 2 | 183 | 82.8 | 53.7 | 36 | 16.3 | 10.6 | 2 | .9 | .6 | 221 | | |
| | | | 3 | 146 | 82.5 | 42.8 | 29 | 16.4 | 8.5 | 2 | 1.1 | .6 | 177 | | |
| | | MARG | 1 | 41 | 66.1 | 12.0 | 18 | 29.0 | 5.3 | 3 | 4.8 | .9 | 62 | 18.2 | |
| | | | 2 | 11 | 64.7 | 3.2 | 5 | 29.4 | 1.5 | 1 | 5.9 | .3 | 17 | | |
| | | | 3 | 5 | 100.0 | 1.5 | | | | | | | 5 | | |
| | | POOR | 1 | 3 | 60.0 | .9 | 1 | 20.0 | .3 | 1 | 20.0 | .3 | 5 | 1.5 | |
| | | | 2 | 1 | 100.0 | .3 | | | | | | | 1 | | |
| | | | 3 | | | | | | | | | | | | |
| | 6 | GOOD | 1 | 248 | 89.2 | 75.2 | 22 | 7.9 | 6.7 | 8 | 2.9 | 2.4 | 278 | 84.2 | 330 |
| | | | 2 | 216 | 90.4 | 65.5 | 20 | 8.4 | 6.1 | 3 | 1.3 | .9 | 239 | | |
| | | | 3 | 189 | 91.3 | 57.3 | 16 | 7.7 | 4.8 | 2 | 1.0 | .6 | 207 | | |
| | | MARG | 1 | 25 | 64.1 | 7.6 | 13 | 33.3 | 3.9 | 1 | 2.6 | .3 | 39 | 11.8 | |
| | | | 2 | 7 | 53.8 | 2.1 | 6 | 46.2 | 1.8 | | | | 13 | | |
| | | | 3 | 5 | 83.3 | 1.5 | 1 | 16.7 | .3 | | | | 6 | | |
| | | POOR | 1 | 9 | 69.2 | 2.7 | 1 | 7.7 | .3 | 3 | 23.1 | .9 | 13 | 3.9 | |
| | | | 2 | 2 | 66.7 | .6 | 1 | 33.3 | .3 | | | | 3 | | |
| | | | 3 | | | | | | | | | | | | |
| | 7 | GOOD | 1 | 282 | 92.8 | 82.7 | 21 | 6.9 | 6.2 | 1 | .3 | .3 | 304 | 89.1 | 341 |
| | | | 2 | 254 | 92.7 | 74.5 | 19 | 6.9 | 5.6 | 1 | .4 | .3 | 274 | | |
| | | | 3 | 232 | 94.3 | 68.0 | 14 | 5.7 | 4.1 | | | | 246 | | |
| | | MARG | 1 | 20 | 58.8 | 5.9 | 13 | 38.2 | 3.8 | 1 | 2.9 | .3 | 34 | 10.0 | |
| | | | 2 | 6 | 46.2 | 1.8 | 6 | 46.2 | 1.8 | 1 | 7.7 | .3 | 13 | | |
| | | | 3 | 4 | 66.7 | 1.2 | 2 | 33.3 | .6 | | | | 6 | | |
| | | POOR | 1 | 1 | 33.3 | .3 | 1 | 33.3 | .3 | 1 | 33.3 | .3 | 3 | .9 | |
| | | | 2 | 1 | 100.0 | .3 | | | | | | | 1 | | |
| | | | 3 | | | | | | | | | | | | |
| | 8 | GOOD | 1 | 285 | 92.5 | 83.6 | 22 | 7.1 | 6.5 | 1 | .3 | .3 | 308 | 90.3 | 341 |
| | | | 2 | 258 | 93.1 | 75.7 | 19 | 6.9 | 5.6 | | | | 277 | | |
| | | | 3 | 233 | 92.8 | 68.3 | 18 | 7.2 | 5.3 | | | | 251 | | |
| | | MARG | 1 | 20 | 69.0 | 5.9 | 7 | 24.1 | 2.1 | 2 | 6.9 | .6 | 29 | 8.5 | |
| | | | 2 | 3 | 50.0 | .9 | 2 | 33.3 | .6 | 1 | 16.7 | .3 | 6 | | |
| | | | 3 | 1 | 50.0 | .3 | 1 | 50.0 | .3 | | | | 2 | | |
| | | POOR | 1 | 1 | 25.0 | .3 | 2 | 50.0 | .6 | 1 | 25.0 | .3 | 4 | 1.2 | |
| | | | 2 | | | | 1 | 100.0 | .3 | | | | 1 | | |
| | | | 3 | | | | | | | | | | | | |

TABLE 2 EDWARDS AFB TO KENNEDY SPACE CENTER
WESTERN SEGMENT-EAFB TO MIDLAND, TX.

| WESTERN | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 9 | GOOD | 1 | 230 | 86.1 | 69.7 | 34 | 12.7 | 10.3 | 3 | 1.1 | .9 | 267 | 80.9 | 330 |
| | | | 2 | 190 | 86.4 | 57.6 | 29 | 13.2 | 8.8 | 1 | .5 | .3 | 220 | | |
| | | | 3 | 156 | 86.7 | 47.3 | 24 | 13.3 | 7.3 | | | | 180 | | |
| | | MARG | 1 | 36 | 61.0 | 10.9 | 22 | 37.3 | 6.7 | 1 | 1.7 | .3 | 59 | 17.9 | |
| | | | 2 | 14 | 63.6 | 4.2 | 8 | 36.4 | 2.4 | | | | 22 | | |
| | | | 3 | 6 | 75.0 | 1.8 | 2 | 25.0 | .6 | | | | 8 | | |
| | | POOR | 1 | 3 | 75.0 | .9 | 1 | 25.0 | .3 | | | | 4 | 1.2 | |
| | | | 2 | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | |
| | 10 | GOOD | 1 | 233 | 84.4 | 68.3 | 41 | 14.9 | 12.0 | 2 | .7 | .6 | 276 | 80.9 | 341 |
| | | | 2 | 189 | 83.3 | 55.4 | 37 | 16.3 | 10.9 | 1 | .4 | .3 | 227 | | |
| | | | 3 | 153 | 82.7 | 44.9 | 31 | 16.8 | 9.1 | 1 | .5 | .3 | 185 | | |
| | | MARG | 1 | 37 | 61.7 | 10.9 | 20 | 33.3 | 5.9 | 3 | 5.0 | .9 | 60 | 17.6 | |
| | | | 2 | 15 | 75.0 | 4.4 | 3 | 15.0 | .9 | 2 | 10.0 | .6 | 20 | | |
| | | | 3 | 3 | 100.0 | .9 | | | | | | | 3 | | |
| | | POOR | 1 | 4 | 80.0 | 1.2 | 1 | 20.0 | .3 | | | | 5 | 1.5 | |
| | | | 2 | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | |
| | 11 | GOOD | 1 | 226 | 86.9 | 68.5 | 33 | 12.7 | 10.0 | 1 | .4 | .3 | 260 | 78.8 | 330 |
| | | | 2 | 190 | 86.8 | 57.6 | 29 | 13.2 | 8.8 | | | | 219 | | |
| | | | 3 | 162 | 88.5 | 49.1 | 21 | 11.5 | 6.4 | | | | 183 | | |
| | | MARG | 1 | 31 | 49.2 | 9.4 | 26 | 41.3 | 7.9 | 6 | 9.5 | 1.8 | 63 | 19.1 | |
| | | | 2 | 12 | 46.2 | 3.6 | 14 | 53.8 | 4.2 | | | | 26 | | |
| | | | 3 | 5 | 35.7 | 1.5 | 9 | 64.3 | 2.7 | | | | 14 | | |
| | | POOR | 1 | 4 | 57.1 | 1.2 | 3 | 42.9 | .9 | | | | 7 | 2.1 | |
| | | | 2 | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | |
| | 12 | GOOD | 1 | 231 | 85.2 | 67.7 | 36 | 13.3 | 10.6 | 4 | 1.5 | 1.2 | 271 | 79.5 | 341 |
| | | | 2 | 191 | 85.3 | 56.0 | 30 | 13.4 | 8.8 | 3 | 1.3 | .9 | 224 | | |
| | | | 3 | 154 | 83.7 | 45.2 | 28 | 15.2 | 8.2 | 2 | 1.1 | .6 | 184 | | |
| | | MARG | 1 | 36 | 61.0 | 10.6 | 20 | 33.9 | 5.9 | 3 | 5.1 | .9 | 59 | 17.3 | |
| | | | 2 | 11 | 57.9 | 3.2 | 8 | 42.1 | 2.3 | | | | 19 | | |
| | | | 3 | 4 | 50.0 | 1.2 | 4 | 50.0 | 1.2 | | | | 8 | | |
| | | POOR | 1 | 4 | 40.0 | 1.2 | 3 | 30.0 | .9 | 3 | 30.0 | .9 | 10 | 2.9 | |
| | | | 2 | | | | 2 | 66.7 | .6 | 1 | 33.3 | .3 | 3 | | |
| | | | 3 | | | | 1 | 100.0 | .3 | | | | 1 | | |

TABLE 3 EDWARDS AFB TO KENNEDY SPACE CENTER
MIDDLE SEGMENT-MIDLAND, TX TO SHREVEPORT, LA.

| MIDDLE | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 1 | GOOD | 1 | 151 | 72.6 | 44.3 | 51 | 24.5 | 15.0 | 6 | 2.9 | 1.8 | 208 | 61.0 | 341 |
| | | | 2 | 109 | 73.2 | 32.0 | 35 | 23.5 | 10.3 | 5 | 3.4 | 1.5 | 149 | | |
| | | | 3 | 77 | 72.0 | 22.6 | 26 | 24.3 | 7.6 | 4 | 3.7 | 1.2 | 107 | | |
| | | MARG | 1 | 49 | 42.6 | 14.4 | 56 | 48.7 | 16.4 | 10 | 8.7 | 2.9 | 115 | 33.7 | |
| | | | 2 | 23 | 43.4 | 6.7 | 27 | 50.9 | 7.9 | 3 | 5.7 | .9 | 53 | | |
| | | | 3 | 11 | 44.0 | 3.2 | 11 | 44.0 | 3.2 | 3 | 12.0 | .9 | 25 | | |
| | | POOR | 1 | 5 | 27.8 | 1.5 | 10 | 55.6 | 2.9 | 3 | 16.7 | .9 | 18 | 5.3 | |
| | | | 2 | 1 | 33.3 | .3 | 2 | 66.7 | .6 | | | | 3 | | |
| | | | 3 | | | | | | | | | | | | |
| | 2 | GOOD | 1 | 152 | 75.2 | 48.9 | 44 | 21.8 | 14.1 | 6 | 3.0 | 1.9 | 202 | 65.0 | 311 |
| | | | 2 | 106 | 71.6 | 34.1 | 38 | 25.7 | 12.2 | 4 | 2.7 | 1.3 | 148 | | |
| | | | 3 | 71 | 68.9 | 22.8 | 28 | 27.2 | 9.0 | 4 | 3.9 | 1.3 | 103 | | |
| | | MARG | 1 | 45 | 48.4 | 14.5 | 40 | 43.0 | 12.9 | 8 | 8.6 | 2.6 | 93 | 29.9 | |
| | | | 2 | 28 | 71.8 | 9.0 | 8 | 20.5 | 2.6 | 3 | 7.7 | 1.0 | 39 | | |
| | | | 3 | 5 | 62.5 | 1.6 | 3 | 37.5 | 1.0 | | | | 8 | | |
| | | POOR | 1 | 8 | 50.0 | 2.6 | 7 | 43.8 | 2.3 | 1 | 6.3 | .3 | 16 | 5.1 | |
| | | | 2 | 1 | 100.0 | .3 | | | | | | | 1 | | |
| | | | 3 | | | | | | | | | | | | |
| | 3 | GOOD | 1 | 147 | 67.4 | 43.1 | 63 | 28.9 | 18.5 | 8 | 3.7 | 2.3 | 218 | 63.9 | 341 |
| | | | 2 | 84 | 59.6 | 24.6 | 51 | 36.2 | 15.0 | 6 | 4.3 | 1.8 | 141 | | |
| | | | 3 | 48 | 60.0 | 14.1 | 28 | 35.0 | 8.2 | 4 | 5.0 | 1.2 | 80 | | |
| | | MARG | 1 | 61 | 56.5 | 17.9 | 41 | 38.0 | 12.0 | 6 | 5.6 | 1.8 | 108 | 31.7 | |
| | | | 2 | 20 | 50.0 | 5.9 | 16 | 40.0 | 4.7 | 4 | 10.0 | 1.2 | 40 | | |
| | | | 3 | 8 | 50.0 | 2.3 | 7 | 43.8 | 2.1 | 1 | 6.3 | .3 | 16 | | |
| | | POOR | 1 | 9 | 60.0 | 2.6 | 5 | 33.3 | 1.5 | 1 | 6.7 | .3 | 15 | 4.4 | |
| | | | 2 | 1 | 100.0 | .3 | | | | | | | 1 | | |
| | | | 3 | | | | | | | | | | | | |
| | 4 | GOOD | 1 | 143 | 73.7 | 43.3 | 45 | 23.2 | 13.6 | 6 | 3.1 | 1.8 | 194 | 58.8 | 330 |
| | | | 2 | 99 | 70.7 | 30.0 | 35 | 25.0 | 10.6 | 6 | 4.3 | 1.8 | 140 | | |
| | | | 3 | 64 | 66.0 | 19.4 | 28 | 28.9 | 8.5 | 5 | 5.2 | 1.5 | 97 | | |
| | | MARG | 1 | 37 | 34.6 | 11.2 | 53 | 49.5 | 16.1 | 17 | 15.9 | 5.2 | 107 | 32.4 | |
| | | | 2 | 16 | 32.7 | 4.8 | 26 | 53.1 | 7.9 | 7 | 14.3 | 2.1 | 49 | | |
| | | | 3 | 6 | 25.0 | 1.8 | 13 | 54.2 | 3.9 | 5 | 20.8 | 1.5 | 24 | | |
| | | POOR | 1 | 11 | 37.9 | 3.3 | 10 | 34.5 | 3.0 | 8 | 27.6 | 2.4 | 29 | 8.8 | |
| | | | 2 | 4 | 57.1 | 1.2 | | | | 3 | 42.9 | .9 | 7 | | |
| | | | 3 | 1 | 50.0 | .3 | | | | 1 | 50.0 | .3 | 2 | | |

TABLE 3 EDWARDS AFB TO KENNEDY SPACE CENTER
MIDDLE SEGMENT-MIDLAND, TX TO SHREVEPORT, LA.

| MIDDLE | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 5 | GOOD | 1 | 152 | 73.8 | 44.6 | 42 | 20.4 | 12.3 | 12 | 5.8 | 3.5 | 206 | 60.4 | 341 |
| | | | 2 | 107 | 71.8 | 31.4 | 33 | 22.1 | 9.7 | 9 | 6.0 | 2.6 | 149 | | |
| | | | 3 | 74 | 70.5 | 21.7 | 26 | 24.8 | 7.6 | 5 | 4.8 | 1.5 | 105 | | |
| | | MARG | 1 | 42 | 43.8 | 12.3 | 39 | 40.6 | 11.4 | 15 | 15.6 | 4.4 | 96 | 28.2 | |
| | | | 2 | 15 | 40.5 | 4.4 | 15 | 40.5 | 4.4 | 7 | 18.9 | 2.1 | 37 | | |
| | | | 3 | 7 | 50.0 | 2.1 | 5 | 35.7 | 1.5 | 2 | 14.3 | .6 | 14 | | |
| | | POOR | 1 | 12 | 30.8 | 3.5 | 14 | 35.9 | 4.1 | 13 | 33.3 | 3.8 | 39 | 11.4 | |
| | | | 2 | 4 | 33.3 | 1.2 | 5 | 41.7 | 1.5 | 3 | 25.0 | .9 | 12 | | |
| | | | 3 | 2 | 66.7 | .6 | 1 | 33.3 | .3 | | | | 3 | | |
| | 6 | GOOD | 1 | 203 | 83.5 | 61.5 | 35 | 14.4 | 10.6 | 5 | 2.1 | 1.5 | 243 | 73.6 | 330 |
| | | | 2 | 164 | 83.2 | 49.7 | 29 | 14.7 | 8.6 | 4 | 2.0 | 1.2 | 197 | | |
| | | | 3 | 133 | 83.6 | 40.3 | 24 | 15.1 | 7.3 | 2 | 1.3 | .6 | 159 | | |
| | | MARG | 1 | 37 | 56.9 | 11.2 | 22 | 33.8 | 6.7 | 6 | 9.2 | 1.8 | 65 | 19.7 | |
| | | | 2 | 14 | 66.7 | 4.2 | 6 | 28.6 | 1.8 | 1 | 4.8 | .3 | 21 | | |
| | | | 3 | 4 | 80.0 | 1.2 | 1 | 20.0 | .3 | | | | 5 | | |
| | | POOR | 1 | 7 | 31.8 | 2.1 | 7 | 31.8 | 2.1 | 8 | 36.4 | 2.4 | 22 | 6.7 | |
| | | | 2 | 3 | 37.5 | .9 | 2 | 25.0 | .6 | 3 | 37.5 | .9 | 8 | | |
| | | | 3 | 1 | 33.3 | .3 | 1 | 33.3 | .3 | 1 | 33.3 | .3 | 3 | | |
| | 7 | GOOD | 1 | 240 | 88.2 | 70.4 | 29 | 10.7 | 8.5 | 3 | 1.1 | .9 | 272 | 79.8 | 341 |
| | | | 2 | 209 | 90.1 | 61.3 | 22 | 9.5 | 6.5 | 1 | .4 | .3 | 232 | | |
| | | | 3 | 184 | 90.2 | 54.0 | 19 | 9.3 | 5.6 | 1 | .5 | .3 | 204 | | |
| | | MARG | 1 | 31 | 53.4 | 9.1 | 22 | 37.9 | 6.5 | 5 | 8.6 | 1.5 | 58 | 17.0 | |
| | | | 2 | 13 | 61.9 | 3.8 | 6 | 28.6 | 1.8 | 2 | 9.5 | .6 | 21 | | |
| | | | 3 | 5 | 83.3 | 1.5 | 1 | 16.7 | .3 | | | | 6 | | |
| | | POOR | 1 | 3 | 27.3 | .9 | 5 | 45.5 | 1.5 | 3 | 27.3 | .9 | 11 | 3.2 | |
| | | | 2 | 2 | 66.7 | .6 | | | | 1 | 33.3 | .3 | 3 | | |
| | | | 3 | 1 | 100.0 | .3 | | | | | | | 1 | | |
| | 8 | GOOD | 1 | 229 | 85.4 | 67.2 | 33 | 12.3 | 9.7 | 6 | 2.2 | 1.8 | 268 | 78.6 | 341 |
| | | | 2 | 192 | 86.1 | 56.3 | 25 | 11.2 | 7.3 | 6 | 2.7 | 1.8 | 223 | | |
| | | | 3 | 162 | 86.6 | 47.5 | 20 | 10.7 | 5.9 | 5 | 2.7 | 1.5 | 187 | | |
| | | MARG | 1 | 35 | 55.6 | 10.3 | 26 | 41.3 | 7.6 | 2 | 3.2 | .6 | 63 | 18.5 | |
| | | | 2 | 14 | 53.8 | 4.1 | 10 | 38.5 | 2.9 | 2 | 7.7 | .6 | 26 | | |
| | | | 3 | 3 | 30.0 | .9 | 5 | 50.0 | 1.5 | 2 | 20.0 | .6 | 10 | | |
| | | POOR | 1 | 2 | 20.0 | .6 | 5 | 50.0 | 1.5 | 3 | 30.0 | .9 | 10 | 2.9 | |
| | | | 2 | | | | 2 | 66.7 | .6 | 1 | 33.3 | .3 | 3 | | |
| | | | 3 | | | | 1 | 100.0 | .3 | | | | 1 | | |

TABLE 3 EDWARDS AFB TO KENNEDY SPACE CENTER
MIDDLE SEGMENT-MIDLAND, TX TO SHREVEPORT, LA.

| MIDDLE | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 9 | GOOD | 1 | 166 | 76.5 | 50.3 | 42 | 19.4 | 12.7 | 9 | 4.1 | 2.7 | 217 | 65.8 | 330 |
| | | | 2 | 119 | 75.8 | 36.1 | 30 | 19.1 | 9.1 | 8 | 5.1 | 2.4 | 157 | | |
| | | | 3 | 82 | 73.9 | 24.8 | 23 | 20.7 | 7.0 | 6 | 5.4 | 1.8 | 111 | | |
| | | MARG | 1 | 45 | 50.0 | 13.6 | 38 | 42.2 | 11.5 | 7 | 7.8 | 2.1 | 90 | 27.3 | |
| | | | 2 | 21 | 55.3 | 6.4 | 16 | 42.1 | 4.8 | 1 | 2.6 | .3 | 38 | | |
| | | | 3 | 8 | 50.0 | 2.4 | 7 | 43.8 | 2.1 | 1 | 6.3 | .3 | 16 | | |
| | | POOR | 1 | 8 | 34.8 | 2.4 | 9 | 39.1 | 2.7 | 6 | 26.1 | 1.8 | 23 | 7.0 | |
| | | | 2 | 2 | 33.3 | .6 | 2 | 33.3 | .6 | 2 | 33.3 | .6 | 6 | | |
| | | | 3 | 1 | 50.0 | .3 | 1 | 50.0 | .3 | | | | 2 | | |
| | 10 | GOOD | 1 | 190 | 76.3 | 55.7 | 52 | 20.9 | 15.2 | 7 | 2.8 | 2.1 | 249 | 73.0 | 341 |
| | | | 2 | 140 | 74.9 | 41.1 | 41 | 21.9 | 12.0 | 6 | 3.2 | 1.8 | 187 | | |
| | | | 3 | 103 | 74.6 | 30.2 | 30 | 21.7 | 8.8 | 5 | 3.6 | 1.5 | 138 | | |
| | | MARG | 1 | 48 | 64.0 | 14.1 | 20 | 26.7 | 5.9 | 7 | 9.3 | 2.1 | 75 | 22.0 | |
| | | | 2 | 13 | 65.0 | 3.8 | 4 | 20.0 | 1.2 | 3 | 15.0 | .9 | 20 | | |
| | | | 3 | 3 | 75.0 | .9 | | | | 1 | 25.0 | .3 | 4 | | |
| | | POOR | 1 | 8 | 47.1 | 2.3 | 6 | 35.3 | 1.8 | 3 | 17.6 | .9 | 17 | 5.0 | |
| | | | 2 | 2 | 66.7 | .6 | 1 | 33.3 | .3 | | | | 3 | | |
| | | | 3 | | | | | | | | | | | | |
| | 11 | GOOD | 1 | 159 | 71.9 | 46.2 | 52 | 23.5 | 15.8 | 10 | 4.5 | 3.0 | 221 | 67.0 | 330 |
| | | | 2 | 113 | 73.4 | 34.2 | 33 | 21.4 | 10.0 | 8 | 5.2 | 2.4 | 154 | | |
| | | | 3 | 80 | 73.4 | 24.2 | 23 | 21.1 | 7.0 | 6 | 5.5 | 1.8 | 109 | | |
| | | MARG | 1 | 51 | 58.6 | 15.5 | 26 | 29.9 | 7.9 | 10 | 11.5 | 3.0 | 87 | 26.4 | |
| | | | 2 | 18 | 69.2 | 5.5 | 8 | 30.8 | 2.4 | | | | 26 | | |
| | | | 3 | 4 | 50.0 | 1.2 | 4 | 50.0 | 1.2 | | | | 8 | | |
| | | POOR | 1 | 10 | 45.5 | 3.0 | 9 | 40.9 | 2.7 | 3 | 13.6 | .9 | 22 | 6.7 | |
| | | | 2 | 2 | 66.7 | .6 | 1 | 33.3 | .3 | | | | 3 | | |
| | | | 3 | | | | | | | | | | | | |
| | 12 | GOOD | 1 | 167 | 74.6 | 49.0 | 44 | 19.6 | 12.9 | 13 | 5.8 | 3.8 | 224 | 65.7 | 341 |
| | | | 2 | 124 | 76.5 | 36.4 | 28 | 17.3 | 8.2 | 10 | 6.2 | 2.9 | 162 | | |
| | | | 3 | 92 | 75.4 | 27.0 | 21 | 17.2 | 6.2 | 9 | 7.4 | 2.6 | 122 | | |
| | | MARG | 1 | 47 | 52.2 | 13.8 | 36 | 40.0 | 10.6 | 7 | 7.8 | 2.1 | 90 | 26.4 | |
| | | | 2 | 22 | 62.9 | 6.5 | 11 | 31.4 | 3.2 | 2 | 5.7 | .6 | 35 | | |
| | | | 3 | 8 | 72.7 | 2.3 | 3 | 27.3 | .9 | | | | 11 | | |
| | | POOR | 1 | 13 | 50.0 | 3.8 | 8 | 30.8 | 2.3 | 5 | 19.2 | 1.5 | 26 | 7.6 | |
| | | | 2 | 2 | 40.0 | .6 | 1 | 20.0 | .3 | 2 | 40.0 | .6 | 5 | | |
| | | | 3 | 1 | 50.0 | .3 | | | | 1 | 50.0 | .3 | 2 | | |

TABLE 4 EDWARDS AFB TO KENNEDY SPACE CENTER
EASTERN SEGMENT-SHREVEPORT, LA TO KSC.

| EASTERN | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 1 | GOOD | 1 | 112 | 64.0 | 32.8 | 47 | 26.9 | 13.8 | 16 | 9.1 | 4.7 | 175 | 51.3 | 341 |
| | | | 2 | 72 | 66.1 | 21.1 | 27 | 24.8 | 7.9 | 10 | 9.2 | 2.9 | 109 | | |
| | | | 3 | 44 | 63.8 | 12.9 | 18 | 26.1 | 5.3 | 7 | 10.1 | 2.1 | 69 | | |
| | | MARG | 1 | 52 | 42.3 | 15.2 | 56 | 45.5 | 16.4 | 15 | 12.2 | 4.4 | 123 | 36.1 | |
| | | | 2 | 20 | 37.0 | 5.9 | 28 | 51.9 | 8.2 | 6 | 11.1 | 1.8 | 54 | | |
| | | | 3 | 9 | 33.3 | 2.6 | 16 | 59.3 | 4.7 | 2 | 7.4 | .6 | 27 | | |
| | | POOR | 1 | 11 | 25.6 | 3.2 | 21 | 48.8 | 6.2 | 11 | 25.6 | 3.2 | 43 | 12.6 | |
| | | | 2 | 2 | 18.2 | .6 | 6 | 54.5 | 1.8 | 3 | 27.3 | .9 | 11 | | |
| | | | 3 | 1 | 33.3 | .3 | 1 | 33.3 | .3 | 1 | 33.3 | .3 | 3 | | |
| | 2 | GOOD | 1 | 112 | 67.1 | 36.0 | 34 | 20.4 | 10.9 | 21 | 12.6 | 6.8 | 167 | 53.7 | 311 |
| | | | 2 | 64 | 60.4 | 20.6 | 25 | 23.6 | 8.0 | 17 | 16.0 | 5.5 | 106 | | |
| | | | 3 | 37 | 62.7 | 11.9 | 9 | 15.3 | 2.9 | 13 | 22.0 | 4.2 | 59 | | |
| | | MARG | 1 | 44 | 50.6 | 14.1 | 31 | 35.6 | 10.0 | 12 | 13.8 | 3.9 | 87 | 28.0 | |
| | | | 2 | 18 | 60.0 | 5.8 | 8 | 26.7 | 2.6 | 4 | 13.3 | 1.3 | 30 | | |
| | | | 3 | 6 | 75.0 | 1.9 | 1 | 12.5 | .3 | 1 | 12.5 | .3 | 8 | | |
| | | POOR | 1 | 13 | 22.8 | 4.2 | 21 | 36.8 | 6.8 | 23 | 40.4 | 7.4 | 57 | 18.3 | |
| | | | 2 | 5 | 21.7 | 1.6 | 7 | 30.4 | 2.3 | 11 | 47.8 | 3.5 | 23 | | |
| | | | 3 | 4 | 36.4 | 1.3 | 2 | 18.2 | .6 | 5 | 45.5 | 1.6 | 11 | | |
| | 3 | GOOD | 1 | 133 | 69.6 | 39.0 | 41 | 21.5 | 12.0 | 17 | 8.9 | 5.0 | 191 | 56.0 | 341 |
| | | | 2 | 84 | 65.1 | 24.6 | 29 | 22.5 | 8.5 | 16 | 12.4 | 4.7 | 129 | | |
| | | | 3 | 53 | 66.3 | 15.5 | 20 | 25.0 | 5.9 | 7 | 8.8 | 2.1 | 80 | | |
| | | MARG | 1 | 42 | 41.2 | 12.3 | 41 | 40.2 | 12.0 | 19 | 18.6 | 5.6 | 102 | 29.9 | |
| | | | 2 | 13 | 32.5 | 3.8 | 17 | 42.5 | 5.0 | 10 | 25.0 | 2.9 | 40 | | |
| | | | 3 | 5 | 31.3 | 1.5 | 5 | 31.3 | 1.5 | 6 | 37.5 | 1.8 | 16 | | |
| | | POOR | 1 | 13 | 27.1 | 3.8 | 22 | 45.8 | 6.5 | 13 | 27.1 | 3.8 | 48 | 14.1 | |
| | | | 2 | 5 | 41.7 | 1.5 | 4 | 33.3 | 1.2 | 3 | 25.0 | .9 | 12 | | |
| | | | 3 | | | | | | | 2 | 100.0 | .6 | 2 | | |
| | 4 | GOOD | 1 | 147 | 71.7 | 44.5 | 38 | 18.5 | 11.5 | 20 | 9.8 | 6.1 | 205 | 62.1 | 330 |
| | | | 2 | 103 | 71.5 | 31.2 | 28 | 19.4 | 8.5 | 13 | 9.0 | 3.9 | 144 | | |
| | | | 3 | 72 | 70.6 | 21.8 | 21 | 20.6 | 6.4 | 9 | 8.8 | 2.7 | 102 | | |
| | | MARG | 1 | 47 | 51.1 | 14.2 | 36 | 39.1 | 10.9 | 9 | 9.8 | 2.7 | 92 | 27.9 | |
| | | | 2 | 19 | 54.3 | 5.8 | 14 | 40.0 | 4.2 | 2 | 5.7 | .6 | 35 | | |
| | | | 3 | 7 | 53.8 | 2.1 | 5 | 38.5 | 1.5 | 1 | 7.7 | .3 | 13 | | |
| | | POOR | 1 | 13 | 39.4 | 3.9 | 14 | 42.4 | 4.2 | 6 | 18.2 | 1.8 | 33 | 10.0 | |
| | | | 2 | 3 | 50.0 | .9 | 3 | 50.0 | .9 | | | | 6 | | |
| | | | 3 | | | | | | | | | | | | |

TABLE 4 EDWARDS AFB TO KENNEDY SPACE CENTER
EASTERN SEGMENT-SHREVEPORT, LA TO KSC.

| EASTERN | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 5 | GOOD | 1 | 142 | 73.2 | 41.6 | 37 | 19.1 | 10.9 | 15 | 7.7 | 4.4 | 194 | 56.9 | 341 |
| | | | 2 | 100 | 73.5 | 29.3 | 26 | 19.1 | 7.6 | 10 | 7.4 | 2.9 | 136 | | |
| | | | 3 | 66 | 69.5 | 19.4 | 20 | 21.1 | 5.9 | 9 | 9.5 | 2.6 | 95 | | |
| | | MARG | 1 | 44 | 43.6 | 12.9 | 44 | 43.6 | 12.9 | 13 | 12.9 | 3.8 | 101 | 29.6 | |
| | | | 2 | 19 | 44.2 | 5.6 | 19 | 44.2 | 5.6 | 5 | 11.6 | 1.5 | 43 | | |
| | | | 3 | 9 | 47.4 | 2.6 | 8 | 42.1 | 2.3 | 2 | 10.5 | .6 | 19 | | |
| | | POOR | 1 | 9 | 19.6 | 2.6 | 21 | 45.7 | 6.2 | 16 | 34.8 | 4.7 | 46 | 13.5 | |
| | | | 2 | 5 | 31.3 | 1.5 | 8 | 50.0 | 2.3 | 3 | 18.8 | .9 | 16 | | |
| | | | 3 | 1 | 33.3 | .3 | 2 | 66.7 | .6 | | | | 3 | | |
| | 6 | GOOD | 1 | 186 | 81.9 | 56.4 | 32 | 14.1 | 9.7 | 9 | 4.0 | 2.7 | 227 | 68.8 | 330 |
| | | | 2 | 148 | 82.7 | 44.8 | 25 | 14.0 | 7.6 | 6 | 3.4 | 1.8 | 179 | | |
| | | | 3 | 113 | 80.1 | 34.2 | 22 | 15.6 | 6.7 | 6 | 4.3 | 1.8 | 141 | | |
| | | MARG | 1 | 39 | 50.6 | 11.8 | 34 | 44.2 | 10.3 | 4 | 5.2 | 1.2 | 77 | 23.3 | |
| | | | 2 | 15 | 45.5 | 4.5 | 17 | 51.5 | 5.2 | 1 | 3.0 | .3 | 33 | | |
| | | | 3 | 9 | 52.9 | 2.7 | 8 | 47.1 | 2.4 | | | | 17 | | |
| | | POOR | 1 | 3 | 11.5 | .9 | 10 | 38.5 | 3.0 | 13 | 50.0 | 3.9 | 26 | 7.9 | |
| | | | 2 | 2 | 15.4 | .6 | 5 | 38.5 | 1.5 | 6 | 46.2 | 1.8 | 13 | | |
| | | | 3 | 1 | 16.7 | .3 | 2 | 33.3 | .6 | 3 | 50.0 | .9 | 6 | | |
| | 7 | GOOD | 1 | 181 | 80.8 | 53.1 | 37 | 16.5 | 10.9 | 6 | 2.7 | 1.8 | 224 | 65.7 | 341 |
| | | | 2 | 149 | 83.7 | 43.7 | 27 | 15.2 | 7.9 | 2 | 1.1 | .6 | 178 | | |
| | | | 3 | 126 | 86.3 | 37.0 | 19 | 13.0 | 5.6 | 1 | .7 | .3 | 146 | | |
| | | MARG | 1 | 31 | 38.3 | 9.1 | 31 | 38.3 | 9.1 | 19 | 23.5 | 5.6 | 81 | 23.8 | |
| | | | 2 | 9 | 32.1 | 2.6 | 12 | 42.9 | 3.5 | 7 | 25.0 | 2.1 | 28 | | |
| | | | 3 | 2 | 20.0 | .6 | 3 | 30.0 | .9 | 5 | 50.0 | 1.5 | 10 | | |
| | | POOR | 1 | 8 | 22.2 | 2.3 | 17 | 47.2 | 5.0 | 11 | 30.6 | 3.2 | 36 | 10.6 | |
| | | | 2 | 2 | 18.2 | .6 | 6 | 54.5 | 1.8 | 3 | 27.3 | .9 | 11 | | |
| | | | 3 | 1 | 33.3 | .3 | | | | 2 | 66.7 | .6 | 3 | | |
| | 8 | GOOD | 1 | 180 | 82.6 | 52.8 | 34 | 15.6 | 10.0 | 4 | 1.8 | 1.2 | 218 | 63.9 | 341 |
| | | | 2 | 149 | 85.6 | 43.7 | 23 | 13.2 | 6.7 | 2 | 1.1 | .6 | 174 | | |
| | | | 3 | 127 | 88.2 | 37.2 | 16 | 11.1 | 4.7 | 1 | .7 | .3 | 144 | | |
| | | MARG | 1 | 37 | 39.8 | 10.9 | 45 | 48.4 | 13.2 | 11 | 11.8 | 3.2 | 93 | 27.3 | |
| | | | 2 | 12 | 28.6 | 3.5 | 23 | 54.8 | 6.7 | 7 | 16.7 | 2.1 | 42 | | |
| | | | 3 | 6 | 30.0 | 1.8 | 11 | 55.0 | 3.2 | 3 | 15.0 | .9 | 20 | | |
| | | POOR | 1 | 4 | 13.3 | 1.2 | 12 | 40.0 | 3.5 | 14 | 46.7 | 4.1 | 30 | 8.8 | |
| | | | 2 | 2 | 14.3 | .6 | 5 | 35.7 | 1.5 | 7 | 50.0 | 2.1 | 14 | | |
| | | | 3 | 1 | 14.3 | .3 | 3 | 42.9 | .9 | 3 | 42.9 | .9 | 7 | | |

TABLE 4 EDWARDS AFB TO KENNEDY SPACE CENTER
EASTERN SEGMENT-SHREVEPORT, LA TO KSC.

| EASTERN | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 9 | GOOD | 1 | 159 | 78.3 | 48.2 | 36 | 17.7 | 10.9 | 8 | 3.9 | 2.4 | 203 | 61.5 | 330 |
| | | | 2 | 122 | 79.2 | 37.0 | 28 | 18.2 | 8.5 | 4 | 2.6 | 1.2 | 154 | | |
| | | | 3 | 91 | 77.1 | 27.6 | 24 | 20.3 | 7.3 | 3 | 2.5 | .9 | 118 | | |
| | | MARG | 1 | 38 | 40.0 | 11.5 | 46 | 48.4 | 13.9 | 11 | 11.6 | 3.3 | 95 | 28.8 | |
| | | | 2 | 18 | 40.9 | 5.5 | 18 | 40.9 | 5.5 | 8 | 18.2 | 2.4 | 44 | | |
| | | | 3 | 5 | 29.4 | 1.5 | 8 | 47.1 | 2.4 | 4 | 23.5 | 1.2 | 17 | | |
| | | POOR | 1 | 6 | 18.8 | 1.8 | 11 | 34.4 | 3.3 | 15 | 46.9 | 4.5 | 32 | 9.7 | |
| | | | 2 | 3 | 20.0 | .9 | 6 | 40.0 | 1.8 | 6 | 40.0 | 1.8 | 15 | | |
| | | | 3 | | | | 3 | 50.0 | .9 | 3 | 50.0 | .9 | 6 | | |
| | 10 | GOOD | 1 | 151 | 74.0 | 44.3 | 45 | 22.1 | 13.2 | 8 | 3.9 | 2.3 | 204 | 59.8 | 341 |
| | | | 2 | 103 | 71.0 | 30.2 | 35 | 24.1 | 10.3 | 7 | 4.8 | 2.1 | 145 | | |
| | | | 3 | 69 | 71.1 | 20.2 | 24 | 24.7 | 7.0 | 4 | 4.1 | 1.2 | 97 | | |
| | | MARG | 1 | 47 | 42.7 | 13.8 | 50 | 45.5 | 14.7 | 13 | 11.8 | 3.8 | 110 | 32.3 | |
| | | | 2 | 23 | 46.0 | 6.7 | 25 | 50.0 | 7.3 | 2 | 4.0 | .6 | 50 | | |
| | | | 3 | 10 | 40.0 | 2.9 | 15 | 60.0 | 4.4 | | | | 25 | | |
| | | POOR | 1 | 6 | 22.2 | 1.8 | 15 | 55.6 | 4.4 | 6 | 22.2 | 1.8 | 27 | 7.9 | |
| | | | 2 | | | | 4 | 80.0 | 1.2 | 1 | 20.0 | .3 | 5 | | |
| | | | 3 | | | | 1 | 100.0 | .3 | | | | 1 | | |
| | 11 | GOOD | 1 | 120 | 65.6 | 36.4 | 49 | 26.8 | 14.8 | 14 | 7.7 | 4.2 | 183 | 55.5 | 330 |
| | | | 2 | 72 | 63.2 | 21.8 | 32 | 28.1 | 9.7 | 10 | 8.8 | 3.0 | 114 | | |
| | | | 3 | 46 | 67.6 | 13.9 | 17 | 25.0 | 5.2 | 5 | 7.4 | 1.5 | 68 | | |
| | | MARG | 1 | 55 | 50.9 | 16.7 | 36 | 33.3 | 10.9 | 17 | 15.7 | 5.2 | 108 | 32.7 | |
| | | | 2 | 14 | 40.0 | 4.2 | 13 | 37.1 | 3.9 | 8 | 22.9 | 2.4 | 35 | | |
| | | | 3 | 4 | 30.8 | 1.2 | 5 | 38.5 | 1.5 | 4 | 30.8 | 1.2 | 13 | | |
| | | POOR | 1 | 8 | 20.5 | 2.4 | 24 | 61.5 | 7.3 | 7 | 17.9 | 2.1 | 39 | 11.8 | |
| | | | 2 | 2 | 28.6 | .6 | 4 | 57.1 | 1.2 | 1 | 14.3 | .3 | 7 | | |
| | | | 3 | | | | 1 | 100.0 | .3 | | | | 1 | | |
| | 12 | GOOD | 1 | 99 | 61.5 | 29.0 | 38 | 23.6 | 11.1 | 24 | 14.9 | 7.0 | 161 | 47.2 | 341 |
| | | | 2 | 54 | 54.5 | 15.8 | 28 | 28.3 | 8.2 | 17 | 17.2 | 5.0 | 99 | | |
| | | | 3 | 28 | 51.9 | 8.2 | 17 | 31.5 | 5.0 | 9 | 16.7 | 2.6 | 54 | | |
| | | MARG | 1 | 42 | 36.5 | 12.3 | 53 | 46.1 | 15.5 | 20 | 17.4 | 5.9 | 115 | 33.7 | |
| | | | 2 | 20 | 40.0 | 5.9 | 22 | 44.0 | 6.5 | 8 | 16.0 | 2.3 | 50 | | |
| | | | 3 | 6 | 30.0 | 1.8 | 13 | 65.0 | 3.8 | 1 | 5.0 | .3 | 20 | | |
| | | POOR | 1 | 18 | 28.1 | 5.3 | 25 | 39.1 | 7.3 | 21 | 32.8 | 6.2 | 64 | 18.8 | |
| | | | 2 | 8 | 40.0 | 2.3 | 7 | 35.0 | 2.1 | 5 | 25.0 | 1.5 | 20 | | |
| | | | 3 | | | | 3 | 75.0 | .9 | 1 | 25.0 | .3 | 4 | | |

TABLE 5 EDWARDS AFB TO MARSHALL SPACE FLIGHT CENTER
ENTIRE ROUTE

| ENTIRE ROUTE | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 1 | GOOD | 1 | 47 | 48.0 | 13.8 | 41 | 41.8 | 12.0 | 10 | 10.2 | 2.9 | 98 | 28.7 | 341 |
| | | | 2 | 19 | 41.3 | 5.6 | 20 | 43.5 | 5.9 | 7 | 15.2 | 2.1 | 46 | | |
| | | | 3 | 7 | 36.8 | 2.1 | 8 | 42.1 | 2.3 | 4 | 21.1 | 1.2 | 19 | | |
| | | MARG | 1 | 34 | 25.6 | 10.0 | 48 | 36.1 | 14.1 | 51 | 38.3 | 15.0 | 133 | 39.0 | |
| | | | 2 | 13 | 28.3 | 3.8 | 18 | 39.1 | 5.3 | 15 | 32.6 | 4.4 | 46 | | |
| | | | 3 | 4 | 22.2 | 1.2 | 7 | 38.9 | 2.1 | 7 | 38.9 | 2.1 | 18 | | |
| | | POOR | 1 | 17 | 15.5 | 5.0 | 42 | 38.2 | 12.3 | 51 | 46.4 | 15.0 | 110 | 32.3 | |
| | | | 2 | 8 | 16.3 | 2.3 | 18 | 36.7 | 5.3 | 23 | 46.9 | 6.7 | 49 | | |
| | | | 3 | 4 | 18.2 | 1.2 | 10 | 45.5 | 2.9 | 8 | 36.4 | 2.3 | 22 | | |
| | 2 | GOOD | 1 | 47 | 46.5 | 15.1 | 35 | 34.7 | 11.3 | 19 | 18.8 | 6.1 | 101 | 32.5 | 311 |
| | | | 2 | 18 | 39.1 | 5.8 | 18 | 39.1 | 5.8 | 10 | 21.7 | 3.2 | 46 | | |
| | | | 3 | 6 | 35.3 | 1.9 | 8 | 47.1 | 2.6 | 3 | 17.6 | 1.0 | 17 | | |
| | | MARG | 1 | 45 | 34.9 | 14.5 | 60 | 46.5 | 19.3 | 24 | 18.6 | 7.7 | 129 | 41.5 | |
| | | | 2 | 23 | 39.0 | 7.4 | 24 | 40.7 | 7.7 | 12 | 20.3 | 3.9 | 59 | | |
| | | | 3 | 13 | 56.5 | 4.2 | 8 | 34.8 | 2.6 | 2 | 8.7 | .6 | 23 | | |
| | | POOR | 1 | 12 | 14.8 | 3.9 | 33 | 40.7 | 10.6 | 36 | 44.4 | 11.6 | 81 | 26.0 | |
| | | | 2 | 9 | 25.0 | 2.9 | 18 | 50.0 | 5.8 | 9 | 25.0 | 2.9 | 36 | | |
| | | | 3 | 2 | 22.2 | .6 | 4 | 44.4 | 1.3 | 3 | 33.3 | 1.0 | 9 | | |
| | 3 | GOOD | 1 | 42 | 45.7 | 12.3 | 36 | 39.1 | 10.6 | 14 | 15.2 | 4.1 | 92 | 27.0 | 341 |
| | | | 2 | 15 | 38.5 | 4.4 | 18 | 46.2 | 5.3 | 6 | 15.4 | 1.8 | 39 | | |
| | | | 3 | 4 | 30.8 | 1.2 | 9 | 69.2 | 2.6 | | | | 13 | | |
| | | MARG | 1 | 36 | 26.3 | 10.6 | 65 | 47.4 | 19.1 | 36 | 26.3 | 10.6 | 137 | 40.2 | |
| | | | 2 | 17 | 27.0 | 5.0 | 27 | 42.9 | 7.9 | 19 | 30.2 | 5.6 | 63 | | |
| | | | 3 | 7 | 26.9 | 2.1 | 11 | 42.3 | 3.2 | 8 | 30.8 | 2.3 | 26 | | |
| | | POOR | 1 | 15 | 13.4 | 4.4 | 35 | 31.3 | 10.3 | 62 | 55.4 | 18.2 | 112 | 32.8 | |
| | | | 2 | 9 | 14.8 | 2.6 | 19 | 31.1 | 5.6 | 33 | 54.1 | 9.7 | 61 | | |
| | | | 3 | 5 | 15.6 | 1.5 | 11 | 34.4 | 3.2 | 16 | 50.0 | 4.7 | 32 | | |
| | 4 | GOOD | 1 | 49 | 52.1 | 14.8 | 35 | 37.2 | 10.6 | 10 | 10.6 | 3.0 | 94 | 28.5 | 330 |
| | | | 2 | 23 | 48.9 | 7.0 | 19 | 40.4 | 5.8 | 5 | 10.6 | 1.5 | 47 | | |
| | | | 3 | 10 | 45.5 | 3.0 | 10 | 45.5 | 3.0 | 2 | 9.1 | .6 | 22 | | |
| | | MARG | 1 | 27 | 22.1 | 8.2 | 54 | 44.3 | 16.4 | 41 | 33.6 | 12.4 | 122 | 37.0 | |
| | | | 2 | 8 | 14.8 | 2.4 | 24 | 44.4 | 7.3 | 22 | 40.7 | 6.7 | 54 | | |
| | | | 3 | 4 | 16.7 | 1.2 | 8 | 33.3 | 2.4 | 12 | 50.0 | 3.6 | 24 | | |
| | | POOR | 1 | 15 | 13.2 | 4.5 | 31 | 27.2 | 9.4 | 68 | 59.6 | 20.6 | 114 | 34.5 | |
| | | | 2 | 10 | 16.1 | 3.0 | 17 | 27.4 | 5.2 | 35 | 56.5 | 10.6 | 62 | | |
| | | | 3 | 5 | 15.6 | 1.5 | 8 | 25.0 | 2.4 | 19 | 59.4 | 5.8 | 32 | | |

TABLE 5 EDWARDS AFB TO MARSHALL SPACE FLIGHT CENTER
ENTIRE ROUTE

| ENTIRE ROUTE | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 5 | GOOD | 1 | 53 | 53.0 | 15.5 | 36 | 36.0 | 10.6 | 11 | 11.0 | 3.2 | 100 | 29.3 | 341 |
| | | | 2 | 27 | 52.9 | 7.9 | 17 | 33.3 | 5.0 | 7 | 13.7 | 2.1 | 51 | | |
| | | | 3 | 12 | 44.4 | 3.5 | 10 | 37.0 | 2.9 | 5 | 18.5 | 1.5 | 27 | | |
| | | MARG | 1 | 34 | 26.4 | 10.0 | 58 | 45.0 | 17.0 | 37 | 28.7 | 10.9 | 129 | 37.8 | |
| | | | 2 | 14 | 24.6 | 4.1 | 25 | 43.9 | 7.3 | 18 | 31.6 | 5.3 | 57 | | |
| | | | 3 | 7 | 29.2 | 2.1 | 7 | 29.2 | 2.1 | 10 | 41.7 | 2.9 | 24 | | |
| | | POOR | 1 | 13 | 11.6 | 3.8 | 38 | 33.9 | 11.1 | 61 | 54.5 | 17.9 | 112 | 32.8 | |
| | | | 2 | 9 | 15.3 | 2.6 | 20 | 33.9 | 5.9 | 30 | 50.8 | 8.8 | 59 | | |
| | | | 3 | 5 | 17.2 | 1.5 | 9 | 31.0 | 2.6 | 15 | 51.7 | 4.4 | 29 | | |
| | 6 | GOOD | 1 | 118 | 74.2 | 35.8 | 26 | 16.4 | 7.9 | 15 | 9.4 | 4.5 | 159 | 48.2 | 330 |
| | | | 2 | 86 | 77.5 | 26.1 | 16 | 14.4 | 4.8 | 9 | 8.1 | 2.7 | 111 | | |
| | | | 3 | 59 | 73.8 | 17.9 | 15 | 18.8 | 4.5 | 6 | 7.5 | 1.8 | 80 | | |
| | | MARG | 1 | 36 | 37.1 | 10.9 | 36 | 37.1 | 10.9 | 25 | 25.8 | 7.6 | 97 | 29.4 | |
| | | | 2 | 15 | 41.7 | 4.5 | 15 | 41.7 | 4.5 | 6 | 16.7 | 1.8 | 36 | | |
| | | | 3 | 5 | 33.3 | 1.5 | 7 | 46.7 | 2.1 | 3 | 20.0 | .9 | 15 | | |
| | | POOR | 1 | 11 | 14.9 | 3.3 | 33 | 44.6 | 10.0 | 30 | 40.5 | 9.1 | 74 | 22.4 | |
| | | | 2 | 4 | 13.8 | 1.2 | 10 | 34.5 | 3.0 | 15 | 51.7 | 4.5 | 29 | | |
| | | | 3 | 3 | 20.0 | .9 | 5 | 33.3 | 1.5 | 7 | 46.7 | 2.1 | 15 | | |
| | 7 | GOOD | 1 | 103 | 64.0 | 30.2 | 49 | 30.4 | 14.4 | 9 | 5.6 | 2.6 | 161 | 47.2 | 341 |
| | | | 2 | 65 | 63.7 | 19.1 | 31 | 30.4 | 9.1 | 6 | 5.9 | 1.8 | 102 | | |
| | | | 3 | 42 | 65.6 | 12.3 | 19 | 29.7 | 5.6 | 3 | 4.7 | .9 | 64 | | |
| | | MARG | 1 | 47 | 35.9 | 13.8 | 63 | 48.1 | 18.5 | 21 | 16.0 | 6.2 | 131 | 38.4 | |
| | | | 2 | 25 | 41.7 | 7.3 | 27 | 45.0 | 7.9 | 8 | 13.3 | 2.3 | 60 | | |
| | | | 3 | 9 | 34.6 | 2.6 | 12 | 46.2 | 3.5 | 5 | 19.2 | 1.5 | 26 | | |
| | | POOR | 1 | 6 | 12.2 | 1.8 | 22 | 44.9 | 6.5 | 21 | 42.9 | 6.2 | 49 | 14.4 | |
| | | | 2 | 3 | 15.0 | .9 | 10 | 50.0 | 2.9 | 7 | 35.0 | 2.1 | 20 | | |
| | | | 3 | | | | 2 | 28.6 | .6 | 5 | 71.4 | 1.5 | 7 | | |
| | 8 | GOOD | 1 | 111 | 66.5 | 32.6 | 44 | 26.3 | 12.9 | 12 | 7.2 | 3.5 | 167 | 49.0 | 341 |
| | | | 2 | 72 | 65.5 | 21.1 | 31 | 28.2 | 9.1 | 7 | 6.4 | 2.1 | 110 | | |
| | | | 3 | 43 | 59.7 | 12.6 | 24 | 33.3 | 7.0 | 5 | 6.9 | 1.5 | 72 | | |
| | | MARG | 1 | 49 | 39.8 | 14.4 | 58 | 47.2 | 17.0 | 16 | 13.0 | 4.7 | 123 | 36.1 | |
| | | | 2 | 24 | 43.6 | 7.0 | 23 | 41.8 | 6.7 | 8 | 14.5 | 2.3 | 55 | | |
| | | | 3 | 10 | 43.5 | 2.9 | 10 | 43.5 | 2.9 | 3 | 13.0 | .9 | 23 | | |
| | | POOR | 1 | 5 | 9.8 | 1.5 | 26 | 51.0 | 7.6 | 20 | 39.2 | 5.9 | 51 | 15.0 | |
| | | | 2 | 1 | 5.0 | .3 | 7 | 35.0 | 2.1 | 12 | 60.0 | 3.5 | 20 | | |
| | | | 3 | 1 | 8.3 | .3 | 4 | 33.3 | 1.2 | 7 | 58.3 | 2.1 | 12 | | |

TABLE 5 EDWARDS AFB TO MARSHALL SPACE FLIGHT CENTER
ENTIRE ROUTE

| ENTIRE ROUTE | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 9 | GOOD | 1 | 90 | 69.2 | 27.3 | 30 | 23.1 | 9.1 | 10 | 7.7 | 3.0 | 130 | 39.4 | 330 |
| | | | 2 | 55 | 64.7 | 16.7 | 20 | 23.5 | 6.1 | 10 | 11.8 | 3.0 | 85 | | |
| | | | 3 | 31 | 62.0 | 9.4 | 12 | 24.0 | 3.6 | 7 | 14.0 | 2.1 | 50 | | |
| | | MARG | 1 | 40 | 31.5 | 12.1 | 52 | 40.9 | 15.8 | 35 | 27.6 | 10.6 | 127 | 38.5 | |
| | | | 2 | 13 | 25.0 | 3.9 | 27 | 51.9 | 8.2 | 12 | 23.1 | 3.6 | 52 | | |
| | | | 3 | 10 | 37.0 | 3.0 | 11 | 40.7 | 3.3 | 6 | 22.2 | 1.8 | 27 | | |
| | | POOR | 1 | 6 | 8.2 | 1.8 | 37 | 50.7 | 11.2 | 30 | 41.1 | 9.1 | 73 | 22.1 | |
| | | | 2 | 4 | 13.3 | 1.2 | 13 | 43.3 | 3.9 | 13 | 43.3 | 3.9 | 30 | | |
| | | | 3 | 2 | 15.4 | .6 | 6 | 46.2 | 1.8 | 5 | 38.5 | 1.5 | 13 | | |
| | 10 | GOOD | 1 | 92 | 62.2 | 27.0 | 45 | 30.4 | 13.2 | 11 | 7.4 | 3.2 | 148 | 43.4 | 341 |
| | | | 2 | 55 | 59.8 | 16.1 | 30 | 32.6 | 8.8 | 7 | 7.6 | 2.1 | 92 | | |
| | | | 3 | 33 | 60.0 | 9.7 | 17 | 30.9 | 5.0 | 5 | 9.1 | 1.5 | 55 | | |
| | | MARG | 1 | 41 | 34.7 | 12.0 | 45 | 38.1 | 13.2 | 32 | 27.1 | 9.4 | 118 | 34.6 | |
| | | | 2 | 15 | 34.1 | 4.4 | 13 | 29.5 | 3.8 | 16 | 36.4 | 4.7 | 44 | | |
| | | | 3 | 3 | 23.1 | .9 | 5 | 38.5 | 1.5 | 5 | 38.5 | 1.5 | 13 | | |
| | | POOR | 1 | 11 | 14.7 | 3.2 | 30 | 40.0 | 8.8 | 34 | 45.3 | 10.0 | 75 | 22.0 | |
| | | | 2 | 4 | 12.9 | 1.2 | 12 | 38.7 | 3.5 | 15 | 48.4 | 4.4 | 31 | | |
| | | | 3 | 2 | 15.4 | .6 | 5 | 38.5 | 1.5 | 6 | 46.2 | 1.8 | 13 | | |
| | 11 | GOOD | 1 | 67 | 55.4 | 20.3 | 45 | 37.2 | 13.6 | 9 | 7.4 | 2.7 | 121 | 36.7 | 330 |
| | | | 2 | 36 | 56.3 | 10.9 | 26 | 40.6 | 7.9 | 2 | 3.1 | .6 | 64 | | |
| | | | 3 | 18 | 52.9 | 5.5 | 15 | 44.1 | 4.5 | 1 | 2.9 | .3 | 34 | | |
| | | MARG | 1 | 37 | 28.5 | 11.2 | 57 | 43.8 | 17.3 | 36 | 27.7 | 10.9 | 130 | 39.4 | |
| | | | 2 | 14 | 25.0 | 4.2 | 22 | 39.3 | 6.7 | 20 | 35.7 | 6.1 | 56 | | |
| | | | 3 | 3 | 13.6 | .9 | 7 | 31.8 | 2.1 | 12 | 54.5 | 3.6 | 22 | | |
| | | POOR | 1 | 17 | 21.5 | 5.2 | 30 | 38.0 | 9.1 | 32 | 40.5 | 9.7 | 79 | 23.9 | |
| | | | 2 | 6 | 19.4 | 1.8 | 17 | 54.8 | 5.2 | 8 | 25.8 | 2.4 | 31 | | |
| | | | 3 | | | | 7 | 87.5 | 2.1 | 1 | 12.5 | .3 | 8 | | |
| | 12 | GOOD | 1 | 50 | 50.0 | 14.7 | 36 | 36.0 | 10.6 | 14 | 14.0 | 4.1 | 100 | 29.3 | 341 |
| | | | 2 | 22 | 44.9 | 6.5 | 20 | 40.8 | 5.9 | 7 | 14.3 | 2.1 | 49 | | |
| | | | 3 | 9 | 40.9 | 2.6 | 10 | 45.5 | 2.9 | 3 | 13.6 | .9 | 22 | | |
| | | MARG | 1 | 37 | 26.6 | 10.9 | 64 | 46.0 | 18.8 | 38 | 27.3 | 11.1 | 139 | 40.8 | |
| | | | 2 | 13 | 21.3 | 3.8 | 29 | 47.5 | 8.5 | 19 | 31.1 | 5.6 | 61 | | |
| | | | 3 | 6 | 21.4 | 1.8 | 13 | 46.4 | 3.8 | 9 | 32.1 | 2.6 | 28 | | |
| | | POOR | 1 | 11 | 10.9 | 3.2 | 40 | 39.6 | 11.7 | 50 | 49.5 | 14.7 | 101 | 29.6 | |
| | | | 2 | 5 | 10.4 | 1.5 | 21 | 43.8 | 6.2 | 22 | 45.8 | 6.5 | 48 | | |
| | | | 3 | 2 | 9.5 | .6 | 8 | 38.1 | 2.3 | 11 | 52.4 | 3.2 | 21 | | |

TABLE 6 EDWARDS AFB TO MARSHALL SPACE FLIGHT CENTER
WESTERN SEGMENT-EAFB TO MIDLAND, TX.

| WESTERN | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 1 | GOOD | 1 | 223 | 83.8 | 65.4 | 42 | 15.8 | 12.3 | 1 | .4 | .3 | 266 | 78.0 | 341 |
| | | | 2 | 183 | 83.9 | 53.7 | 34 | 15.6 | 10.0 | 1 | .5 | .3 | 218 | | |
| | | | 3 | 149 | 83.7 | 43.7 | 28 | 15.7 | 8.2 | 1 | .6 | .3 | 178 | | |
| | | MARG | 1 | 42 | 58.3 | 12.3 | 28 | 38.9 | 8.2 | 2 | 2.8 | .6 | 72 | 21.1 | |
| | | | 2 | 15 | 57.7 | 4.4 | 10 | 38.5 | 2.9 | 1 | 3.8 | .3 | 26 | | |
| | | | 3 | 7 | 70.0 | 2.1 | 2 | 20.0 | .6 | 1 | 10.0 | .3 | 10 | | |
| | | POOR | 1 | | | | 3 | 100.0 | .9 | | | | 3 | .9 | |
| | | | 2 | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | |
| | 2 | GOOD | 1 | 170 | 76.6 | 54.7 | 47 | 21.2 | 15.1 | 5 | 2.3 | 1.6 | 222 | 71.4 | 311 |
| | | | 2 | 123 | 76.4 | 39.5 | 34 | 21.1 | 10.9 | 4 | 2.5 | 1.3 | 161 | | |
| | | | 3 | 86 | 73.5 | 27.7 | 28 | 23.9 | 9.0 | 3 | 2.6 | 1.0 | 117 | | |
| | | MARG | 1 | 49 | 62.8 | 15.8 | 26 | 33.3 | 8.4 | 3 | 3.8 | 1.0 | 78 | 25.1 | |
| | | | 2 | 18 | 69.2 | 5.8 | 6 | 23.1 | 1.9 | 2 | 7.7 | .6 | 26 | | |
| | | | 3 | 5 | 83.3 | 1.6 | | | | 1 | 16.7 | .3 | 6 | | |
| | | POOR | 1 | 4 | 36.4 | 1.3 | 4 | 36.4 | 1.3 | 3 | 27.3 | 1.0 | 11 | 3.5 | |
| | | | 2 | 2 | 66.7 | .6 | | | | 1 | 33.3 | .3 | 3 | | |
| | | | 3 | 1 | 100.0 | .3 | | | | | | | 1 | | |
| | 3 | GOOD | 1 | 191 | 77.6 | 56.0 | 53 | 21.5 | 15.5 | 2 | .8 | .6 | 246 | 72.1 | 341 |
| | | | 2 | 140 | 76.1 | 41.1 | 42 | 22.8 | 12.3 | 2 | 1.1 | .6 | 184 | | |
| | | | 3 | 106 | 78.5 | 31.1 | 28 | 20.7 | 8.2 | 1 | .7 | .3 | 135 | | |
| | | MARG | 1 | 51 | 57.3 | 15.0 | 34 | 38.2 | 10.0 | 4 | 4.5 | 1.2 | 89 | 26.1 | |
| | | | 2 | 19 | 55.9 | 5.6 | 12 | 35.3 | 3.5 | 3 | 8.8 | .9 | 34 | | |
| | | | 3 | 8 | 66.7 | 2.3 | 2 | 16.7 | .6 | 2 | 16.7 | .6 | 12 | | |
| | | POOR | 1 | 4 | 66.7 | 1.2 | 2 | 33.3 | .6 | | | | 6 | 1.8 | |
| | | | 2 | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | |
| | 4 | GOOD | 1 | 205 | 82.3 | 62.1 | 44 | 17.7 | 13.3 | | | | 249 | 75.5 | 330 |
| | | | 2 | 161 | 82.1 | 48.8 | 35 | 17.9 | 10.6 | | | | 196 | | |
| | | | 3 | 128 | 83.1 | 38.8 | 26 | 16.9 | 7.9 | | | | 154 | | |
| | | MARG | 1 | 42 | 55.3 | 12.7 | 30 | 39.5 | 9.1 | 4 | 5.3 | 1.2 | 76 | 23.0 | |
| | | | 2 | 18 | 62.1 | 5.5 | 9 | 31.0 | 2.7 | 2 | 6.9 | .6 | 29 | | |
| | | | 3 | 4 | 50.0 | 1.2 | 4 | 50.0 | 1.2 | | | | 8 | | |
| | | POOR | 1 | 3 | 60.0 | .9 | 1 | 20.0 | .3 | 1 | 20.0 | .3 | 5 | 1.5 | |
| | | | 2 | 1 | 100.0 | .3 | | | | | | | 1 | | |
| | | | 3 | | | | | | | | | | | | |

TABLE 6 EDWARDS AFB TO MARSHALL SPACE FLIGHT CENTER
WESTERN SEGMENT-EAFB TO MIDLAND, TX.

| WESTERN | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 5 | GOOD | 1 | 227 | 82.8 | 66.6 | 45 | 16.4 | 13.2 | 2 | .7 | .6 | 274 | 80.4 | 341 |
| | | | 2 | 183 | 82.8 | 53.7 | 36 | 16.3 | 10.6 | 2 | .9 | .6 | 221 | | |
| | | | 3 | 146 | 82.5 | 42.8 | 29 | 16.4 | 8.5 | 2 | 1.1 | .6 | 177 | | |
| | | MARG | 1 | 41 | 66.1 | 12.0 | 18 | 29.0 | 5.3 | 3 | 4.8 | .9 | 62 | 18.2 | |
| | | | 2 | 11 | 64.7 | 3.2 | 5 | 29.4 | 1.5 | 1 | 5.9 | .3 | 17 | | |
| | | | 3 | 5 | 100.0 | 1.5 | | | | | | | 5 | | |
| | | POOR | 1 | 3 | 60.0 | .9 | 1 | 20.0 | .3 | 1 | 20.0 | .3 | 5 | 1.5 | |
| | | | 2 | 1 | 100.0 | .3 | | | | | | | 1 | | |
| | | | 3 | | | | | | | | | | | | |
| | 6 | GOOD | 1 | 248 | 89.2 | 75.2 | 22 | 7.9 | 6.7 | 8 | 2.9 | 2.4 | 278 | 84.2 | 330 |
| | | | 2 | 216 | 90.4 | 65.5 | 20 | 8.4 | 6.1 | 3 | 1.3 | .9 | 239 | | |
| | | | 3 | 189 | 91.3 | 57.3 | 16 | 7.7 | 4.8 | 2 | 1.0 | .6 | 207 | | |
| | | MARG | 1 | 25 | 64.1 | 7.6 | 13 | 33.3 | 3.9 | 1 | 2.6 | .3 | 39 | 11.8 | |
| | | | 2 | 7 | 53.8 | 2.1 | 6 | 46.2 | 1.8 | | | | 13 | | |
| | | | 3 | 5 | 83.3 | 1.5 | 1 | 16.7 | .3 | | | | 6 | | |
| | | POOR | 1 | 9 | 69.2 | 2.7 | 1 | 7.7 | .3 | 3 | 23.1 | .9 | 13 | 3.9 | |
| | | | 2 | 2 | 66.7 | .6 | 1 | 33.3 | .3 | | | | 3 | | |
| | | | 3 | | | | | | | | | | | | |
| | 7 | GOOD | 1 | 282 | 92.8 | 82.7 | 21 | 6.9 | 6.2 | 1 | .3 | .3 | 304 | 89.1 | 341 |
| | | | 2 | 254 | 92.7 | 74.5 | 19 | 6.9 | 5.6 | 1 | .4 | .3 | 274 | | |
| | | | 3 | 232 | 94.3 | 68.0 | 14 | 5.7 | 4.1 | | | | 246 | | |
| | | MARG | 1 | 20 | 58.8 | 5.9 | 13 | 38.2 | 3.8 | 1 | 2.9 | .3 | 34 | 10.0 | |
| | | | 2 | 6 | 46.2 | 1.8 | 6 | 46.2 | 1.8 | 1 | 7.7 | .3 | 13 | | |
| | | | 3 | 4 | 66.7 | 1.2 | 2 | 33.3 | .6 | | | | 6 | | |
| | | POOR | 1 | 1 | 33.3 | .3 | 1 | 33.3 | .3 | 1 | 33.3 | .3 | 3 | .9 | |
| | | | 2 | 1 | 100.0 | .3 | | | | | | | 1 | | |
| | | | 3 | | | | | | | | | | | | |
| | 8 | GOOD | 1 | 285 | 92.5 | 83.6 | 22 | 7.1 | 6.5 | 1 | .3 | .3 | 308 | 90.3 | 341 |
| | | | 2 | 258 | 93.1 | 75.7 | 19 | 6.9 | 5.6 | | | | 277 | | |
| | | | 3 | 233 | 92.8 | 68.3 | 18 | 7.2 | 5.3 | | | | 251 | | |
| | | MARG | 1 | 20 | 69.0 | 5.9 | 7 | 24.1 | 2.1 | 2 | 6.9 | .6 | 29 | 8.5 | |
| | | | 2 | 3 | 50.0 | .9 | 2 | 33.3 | .6 | 1 | 16.7 | .3 | 6 | | |
| | | | 3 | 1 | 50.0 | .3 | 1 | 50.0 | .3 | | | | 2 | | |
| | | POOR | 1 | 1 | 25.0 | .3 | 2 | 50.0 | .6 | 1 | 25.0 | .3 | 4 | 1.2 | |
| | | | 2 | | | | 1 | 100.0 | .3 | | | | 1 | | |
| | | | 3 | | | | | | | | | | | | |

TABLE 6 EDWARDS AFB TO MARSHALL SPACE FLIGHT CENTER
WESTERN SEGMENT-EAFB TO MIDLAND, TX.

| WESTERN | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 9 | GOOD | 1 | 230 | 86.1 | 69.7 | 34 | 12.7 | 10.3 | 3 | 1.1 | .9 | 267 | 80.9 | 330 |
| | | | 2 | 190 | 86.4 | 57.6 | 29 | 13.2 | 8.8 | 1 | .5 | .3 | 220 | | |
| | | | 3 | 156 | 86.7 | 47.3 | 24 | 13.3 | 7.3 | | | | 180 | | |
| | | MARG | 1 | 36 | 61.0 | 10.9 | 22 | 37.3 | 6.7 | 1 | 1.7 | .3 | 59 | 17.9 | |
| | | | 2 | 14 | 63.6 | 4.2 | 8 | 36.4 | 2.4 | | | | 22 | | |
| | | | 3 | 6 | 75.0 | 1.8 | 2 | 25.0 | .6 | | | | 8 | | |
| | | POOR | 1 | 3 | 75.0 | .9 | 1 | 25.0 | .3 | | | | 4 | 1.2 | |
| | | | 2 | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | |
| | 10 | GOOD | 1 | 233 | 84.4 | 68.3 | 41 | 14.9 | 12.0 | 2 | .7 | .6 | 276 | 80.9 | 341 |
| | | | 2 | 189 | 83.3 | 55.4 | 37 | 16.3 | 10.9 | 1 | .4 | .3 | 227 | | |
| | | | 3 | 153 | 82.7 | 44.9 | 31 | 16.8 | 9.1 | 1 | .5 | .3 | 185 | | |
| | | MARG | 1 | 37 | 61.7 | 10.9 | 20 | 33.3 | 5.9 | 3 | 5.0 | .9 | 60 | 17.6 | |
| | | | 2 | 15 | 75.0 | 4.4 | 3 | 15.0 | .9 | 2 | 10.0 | .6 | 20 | | |
| | | | 3 | 3 | 100.0 | .9 | | | | | | | 3 | | |
| | | POOR | 1 | 4 | 80.0 | 1.2 | 1 | 20.0 | .3 | | | | 5 | 1.5 | |
| | | | 2 | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | |
| | 11 | GOOD | 1 | 226 | 86.9 | 68.5 | 33 | 12.7 | 10.0 | 1 | .4 | .3 | 260 | 78.8 | 330 |
| | | | 2 | 190 | 86.8 | 57.6 | 29 | 13.2 | 8.8 | | | | 219 | | |
| | | | 3 | 162 | 88.5 | 49.1 | 21 | 11.5 | 6.4 | | | | 183 | | |
| | | MARG | 1 | 31 | 49.2 | 9.4 | 26 | 41.3 | 7.9 | 6 | 9.5 | 1.8 | 63 | 19.1 | |
| | | | 2 | 12 | 46.2 | 3.6 | 14 | 53.8 | 4.2 | | | | 26 | | |
| | | | 3 | 5 | 35.7 | 1.5 | 9 | 64.3 | 2.7 | | | | 14 | | |
| | | POOR | 1 | 4 | 57.1 | 1.2 | 3 | 42.9 | .9 | | | | 7 | 2.1 | |
| | | | 2 | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | |
| | 12 | GOOD | 1 | 231 | 85.2 | 67.7 | 36 | 13.3 | 10.6 | 4 | 1.5 | 1.2 | 271 | 79.5 | 341 |
| | | | 2 | 191 | 85.3 | 56.0 | 30 | 13.4 | 8.8 | 3 | 1.3 | .9 | 224 | | |
| | | | 3 | 154 | 83.7 | 45.2 | 28 | 15.2 | 8.2 | 2 | 1.1 | .6 | 184 | | |
| | | MARG | 1 | 36 | 61.0 | 10.6 | 20 | 33.9 | 5.9 | 3 | 5.1 | .9 | 59 | 17.3 | |
| | | | 2 | 11 | 57.9 | 3.2 | 8 | 42.1 | 2.3 | | | | 19 | | |
| | | | 3 | 4 | 50.0 | 1.2 | 4 | 50.0 | 1.2 | | | | 8 | | |
| | | POOR | 1 | 4 | 40.0 | 1.2 | 3 | 30.0 | .9 | 3 | 30.0 | .9 | 10 | 2.9 | |
| | | | 2 | | | | 2 | 66.7 | .6 | 1 | 33.3 | .3 | 3 | | |
| | | | 3 | | | | 1 | 100.0 | .3 | | | | 1 | | |

TABLE 7 EDWARDS AFB TO MARSHALL SPACE FLIGHT CENTER
EASTERN SEGMENT-MIDLAND, TX TO MSFC.

| EASTERN | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 1 | GOOD | 1 | 65 | 53.7 | 19.1 | 39 | 32.2 | 11.4 | 17 | 14.0 | 5.0 | 121 | 35.5 | 341 |
| | | | 2 | 27 | 42.9 | 7.9 | 23 | 36.5 | 6.7 | 13 | 20.6 | 3.8 | 63 | | |
| | | | 3 | 13 | 50.0 | 3.8 | 9 | 34.6 | 2.6 | 4 | 15.4 | 1.2 | 26 | | |
| | | MARG | 1 | 37 | 33.0 | 10.9 | 32 | 28.6 | 9.4 | 43 | 38.4 | 12.6 | 112 | 32.8 | |
| | | | 2 | 11 | 35.5 | 3.2 | 9 | 29.0 | 2.6 | 11 | 35.5 | 3.2 | 31 | | |
| | | | 3 | 3 | 33.3 | .9 | 1 | 11.1 | .3 | 5 | 55.6 | 1.5 | 9 | | |
| | | POOR | 1 | 20 | 18.5 | 5.9 | 38 | 35.2 | 11.1 | 50 | 46.3 | 14.7 | 108 | 31.7 | |
| | | | 2 | 10 | 20.8 | 2.9 | 16 | 33.3 | 4.7 | 22 | 45.8 | 6.5 | 48 | | |
| | | | 3 | 4 | 19.0 | 1.2 | 9 | 42.9 | 2.6 | 8 | 38.1 | 2.3 | 21 | | |
| | 2 | GOOD | 1 | 67 | 52.3 | 21.5 | 38 | 29.7 | 12.2 | 23 | 18.0 | 7.4 | 128 | 41.2 | 311 |
| | | | 2 | 29 | 43.9 | 9.3 | 22 | 33.3 | 7.1 | 15 | 22.7 | 4.8 | 66 | | |
| | | | 3 | 11 | 39.3 | 3.5 | 12 | 42.9 | 3.9 | 5 | 17.9 | 1.6 | 28 | | |
| | | MARG | 1 | 48 | 45.3 | 15.4 | 40 | 37.7 | 12.9 | 18 | 17.0 | 5.8 | 106 | 34.1 | |
| | | | 2 | 18 | 45.0 | 5.8 | 17 | 42.5 | 5.5 | 5 | 12.5 | 1.6 | 40 | | |
| | | | 3 | 10 | 58.8 | 3.2 | 6 | 35.3 | 1.9 | 1 | 5.9 | .3 | 17 | | |
| | | POOR | 1 | 16 | 20.8 | 5.1 | 27 | 35.1 | 8.7 | 34 | 44.2 | 10.9 | 77 | 24.8 | |
| | | | 2 | 9 | 26.5 | 2.9 | 16 | 47.1 | 5.1 | 9 | 26.5 | 2.9 | 34 | | |
| | | | 3 | 3 | 33.3 | 1.0 | 3 | 33.3 | 1.0 | 3 | 33.3 | 1.0 | 9 | | |
| | 3 | GOOD | 1 | 64 | 50.8 | 18.8 | 41 | 32.5 | 12.0 | 21 | 16.7 | 6.2 | 126 | 37.0 | 341 |
| | | | 2 | 25 | 41.0 | 7.3 | 24 | 39.3 | 7.0 | 12 | 19.7 | 3.5 | 61 | | |
| | | | 3 | 11 | 47.8 | 3.2 | 10 | 43.5 | 2.9 | 2 | 8.7 | .6 | 23 | | |
| | | MARG | 1 | 44 | 41.5 | 12.9 | 33 | 31.1 | 9.7 | 29 | 27.4 | 8.5 | 106 | 31.1 | |
| | | | 2 | 16 | 50.0 | 4.7 | 6 | 18.8 | 1.8 | 10 | 31.3 | 2.9 | 32 | | |
| | | | 3 | 4 | 66.7 | 1.2 | | | | 2 | 33.3 | .6 | 6 | | |
| | | POOR | 1 | 18 | 16.5 | 5.3 | 32 | 29.4 | 9.4 | 59 | 54.1 | 17.3 | 109 | 32.0 | |
| | | | 2 | 10 | 17.2 | 2.9 | 18 | 31.0 | 5.3 | 30 | 51.7 | 8.8 | 58 | | |
| | | | 3 | 6 | 20.0 | 1.8 | 9 | 30.0 | 2.6 | 15 | 50.0 | 4.4 | 30 | | |
| | 4 | GOOD | 1 | 69 | 59.5 | 20.9 | 32 | 27.6 | 9.7 | 15 | 12.9 | 4.5 | 116 | 35.2 | 330 |
| | | | 2 | 32 | 47.8 | 9.7 | 25 | 37.3 | 7.6 | 10 | 14.9 | 3.0 | 67 | | |
| | | | 3 | 16 | 51.6 | 4.8 | 11 | 35.5 | 3.3 | 4 | 12.9 | 1.2 | 31 | | |
| | | MARG | 1 | 26 | 26.0 | 7.9 | 38 | 38.0 | 11.5 | 36 | 36.0 | 10.9 | 100 | 30.3 | |
| | | | 2 | 8 | 21.1 | 2.4 | 14 | 36.8 | 4.2 | 16 | 42.1 | 4.8 | 38 | | |
| | | | 3 | 3 | 21.4 | .9 | 5 | 35.7 | 1.5 | 6 | 42.9 | 1.8 | 14 | | |
| | | POOR | 1 | 18 | 15.8 | 5.5 | 28 | 24.6 | 8.5 | 68 | 59.6 | 20.6 | 114 | 34.5 | |
| | | | 2 | 11 | 17.7 | 3.3 | 16 | 25.8 | 4.8 | 35 | 56.5 | 10.6 | 62 | | |
| | | | 3 | 5 | 15.6 | 1.5 | 8 | 25.0 | 2.4 | 19 | 59.4 | 5.8 | 32 | | |

TABLE 7 EDWARDS AFB TO MARSHALL SPACE FLIGHT CENTER

EASTERN SEGMENT-MIDLAND, TX TO MSFC.

| EASTERN | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 5 | GOOD | 1 | 71 | 61.2 | 20.8 | 33 | 28.4 | 9.7 | 12 | 10.3 | 3.5 | 116 | 34.0 | 341 |
| | | | 2 | 43 | 62.3 | 12.6 | 18 | 26.1 | 5.3 | 8 | 11.6 | 2.3 | 69 | | |
| | | | 3 | 25 | 58.1 | 7.3 | 13 | 30.2 | 3.8 | 5 | 11.6 | 1.5 | 43 | | |
| | | MARG | 1 | 31 | 27.4 | 9.1 | 46 | 40.7 | 13.5 | 36 | 31.9 | 10.6 | 113 | 33.1 | |
| | | | 2 | 12 | 26.7 | 3.5 | 17 | 37.8 | 5.0 | 16 | 35.6 | 4.7 | 45 | | |
| | | | 3 | 5 | 31.3 | 1.5 | 3 | 18.8 | .9 | 8 | 50.0 | 2.3 | 16 | | |
| | | POOR | 1 | 14 | 12.5 | 4.1 | 37 | 33.0 | 10.9 | 61 | 54.5 | 17.9 | 112 | 32.8 | |
| | | | 2 | 10 | 16.9 | 2.9 | 19 | 32.2 | 5.6 | 30 | 50.8 | 8.8 | 59 | | |
| | | | 3 | 5 | 17.2 | 1.5 | 9 | 31.0 | 2.6 | 15 | 51.7 | 4.4 | 29 | | |
| | 6 | GOOD | 1 | 127 | 75.6 | 38.5 | 26 | 15.5 | 7.9 | 15 | 8.9 | 4.5 | 168 | 50.9 | 330 |
| | | | 2 | 94 | 78.3 | 28.5 | 17 | 14.2 | 5.2 | 9 | 7.5 | 2.7 | 120 | | |
| | | | 3 | 66 | 75.0 | 20.0 | 15 | 17.0 | 4.5 | 7 | 8.0 | 2.1 | 88 | | |
| | | MARG | 1 | 34 | 37.0 | 10.3 | 35 | 38.0 | 10.6 | 23 | 25.0 | 7.0 | 92 | 27.9 | |
| | | | 2 | 17 | 48.6 | 5.2 | 12 | 34.3 | 3.6 | 6 | 17.1 | 1.8 | 35 | | |
| | | | 3 | 5 | 41.7 | 1.5 | 4 | 33.3 | 1.2 | 3 | 25.0 | .9 | 12 | | |
| | | POOR | 1 | 13 | 18.6 | 3.9 | 29 | 41.4 | 8.8 | 28 | 40.0 | 8.5 | 70 | 21.2 | |
| | | | 2 | 4 | 14.8 | 1.2 | 9 | 33.3 | 2.7 | 14 | 51.9 | 4.2 | 27 | | |
| | | | 3 | 2 | 14.3 | .6 | 5 | 35.7 | 1.5 | 7 | 50.0 | 2.1 | 14 | | |
| | 7 | GOOD | 1 | 123 | 69.9 | 36.1 | 42 | 23.9 | 12.3 | 11 | 6.3 | 3.2 | 176 | 51.6 | 341 |
| | | | 2 | 84 | 69.4 | 24.6 | 29 | 24.0 | 8.5 | 8 | 6.6 | 2.3 | 121 | | |
| | | | 3 | 57 | 69.5 | 16.7 | 20 | 24.4 | 5.9 | 5 | 6.1 | 1.5 | 82 | | |
| | | MARG | 1 | 41 | 35.0 | 12.0 | 57 | 48.7 | 16.7 | 19 | 16.2 | 5.6 | 117 | 34.3 | |
| | | | 2 | 23 | 42.6 | 6.7 | 24 | 44.4 | 7.0 | 7 | 13.0 | 2.1 | 54 | | |
| | | | 3 | 8 | 34.8 | 2.3 | 10 | 43.5 | 2.9 | 5 | 21.7 | 1.5 | 23 | | |
| | | POOR | 1 | 7 | 14.6 | 2.1 | 21 | 43.8 | 6.2 | 20 | 41.7 | 5.9 | 48 | 14.1 | |
| | | | 2 | 2 | 10.5 | .6 | 10 | 52.6 | 2.9 | 7 | 36.8 | 2.1 | 19 | | |
| | | | 3 | | | | 2 | 28.6 | .6 | 5 | 71.4 | 1.5 | 7 | | |
| | 8 | GOOD | 1 | 125 | 70.2 | 36.7 | 41 | 23.0 | 12.0 | 12 | 6.7 | 3.5 | 178 | 52.2 | 341 |
| | | | 2 | 86 | 69.9 | 25.2 | 29 | 23.6 | 8.5 | 8 | 6.5 | 2.3 | 123 | | |
| | | | 3 | 57 | 67.1 | 16.7 | 22 | 25.9 | 6.5 | 6 | 7.1 | 1.8 | 85 | | |
| | | MARG | 1 | 47 | 40.9 | 13.8 | 53 | 46.1 | 15.5 | 15 | 13.0 | 4.4 | 115 | 33.7 | |
| | | | 2 | 22 | 44.0 | 6.5 | 21 | 42.0 | 6.2 | 7 | 14.0 | 2.1 | 50 | | |
| | | | 3 | 9 | 42.9 | 2.6 | 9 | 42.9 | 2.6 | 3 | 14.3 | .9 | 21 | | |
| | | POOR | 1 | 6 | 12.5 | 1.8 | 24 | 50.0 | 7.0 | 18 | 37.5 | 5.3 | 48 | 14.1 | |
| | | | 2 | 1 | 5.6 | .3 | 5 | 27.8 | 1.5 | 12 | 66.7 | 3.5 | 18 | | |
| | | | 3 | 1 | 8.3 | .3 | 4 | 33.3 | 1.2 | 7 | 58.3 | 2.1 | 12 | | |

TABLE 7 EDWARDS AFB TO MARSHALL SPACE FLIGHT CENTER

EASTERN SEGMENT-MIDLAND, TX TO MSFC.

| EASTERN | | | | GOOD | | | MARGINAL | | | POOR | | | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | MO | TYPE | DAYS | F | CP | % | F | CP | % | F | CP | % | F | % | N |
| 66-76 | 9 | GOOD | 1 | 97 | 69.3 | 29.4 | 32 | 22.9 | 9.7 | 11 | 7.9 | 3.3 | 140 | 42.4 | 330 |
| | | | 2 | 59 | 64.1 | 17.9 | 22 | 23.9 | 6.7 | 11 | 12.0 | 3.3 | 92 | | |
| | | | 3 | 35 | 64.8 | 10.6 | 11 | 20.4 | 3.3 | 8 | 14.8 | 2.4 | 54 | | |
| | | MARG | 1 | 40 | 34.2 | 12.1 | 43 | 36.8 | 13.0 | 34 | 29.1 | 10.3 | 117 | 35.5 | |
| | | | 2 | 12 | 27.9 | 3.6 | 20 | 46.5 | 6.1 | 11 | 25.6 | 3.3 | 43 | | |
| | | | 3 | 9 | 45.0 | 2.7 | 6 | 30.0 | 1.8 | 5 | 25.0 | 1.5 | 20 | | |
| | | POOR | 1 | 7 | 9.6 | 2.1 | 36 | 49.3 | 10.9 | 30 | 41.1 | 9.1 | 73 | 22.1 | |
| | | | 2 | 4 | 13.3 | 1.2 | 13 | 43.3 | 3.9 | 13 | 43.3 | 3.9 | 30 | | |
| | | | 3 | 2 | 15.4 | .6 | 6 | 46.2 | 1.8 | 5 | 38.5 | 1.5 | 13 | | |
| | 10 | GOOD | 1 | 116 | 67.4 | 34.0 | 39 | 22.7 | 11.4 | 17 | 9.9 | 5.0 | 172 | 50.4 | 341 |
| | | | 2 | 74 | 64.3 | 21.7 | 29 | 25.2 | 8.5 | 12 | 10.4 | 3.5 | 115 | | |
| | | | 3 | 49 | 67.1 | 14.4 | 16 | 21.9 | 4.7 | 8 | 11.0 | 2.3 | 73 | | |
| | | MARG | 1 | 40 | 41.7 | 11.7 | 32 | 33.3 | 9.4 | 24 | 25.0 | 7.0 | 96 | 28.2 | |
| | | | 2 | 13 | 41.9 | 3.8 | 7 | 22.6 | 2.1 | 11 | 35.5 | 3.2 | 31 | | |
| | | | 3 | 3 | 42.9 | .9 | 1 | 14.3 | .3 | 3 | 42.9 | .9 | 7 | | |
| | | POOR | 1 | 12 | 16.4 | 3.5 | 27 | 37.0 | 7.9 | 34 | 46.6 | 10.0 | 73 | 21.4 | |
| | | | 2 | 4 | 12.9 | 1.2 | 12 | 38.7 | 3.5 | 15 | 48.4 | 4.4 | 31 | | |
| | | | 3 | 2 | 15.4 | .6 | 5 | 38.5 | 1.5 | 6 | 46.2 | 1.8 | 13 | | |
| | 11 | GOOD | 1 | 86 | 60.1 | 26.1 | 42 | 29.4 | 12.7 | 15 | 10.5 | 4.5 | 143 | 43.3 | 330 |
| | | | 2 | 51 | 61.4 | 15.5 | 25 | 30.1 | 7.6 | 7 | 8.4 | 2.1 | 83 | | |
| | | | 3 | 29 | 59.2 | 8.8 | 16 | 32.7 | 4.8 | 4 | 8.2 | 1.2 | 49 | | |
| | | MARG | 1 | 37 | 33.0 | 11.2 | 46 | 41.1 | 13.9 | 29 | 25.9 | 8.8 | 112 | 33.9 | |
| | | | 2 | 17 | 37.8 | 5.2 | 15 | 33.3 | 4.5 | 13 | 28.9 | 3.9 | 45 | | |
| | | | 3 | 4 | 26.7 | 1.2 | 5 | 33.3 | 1.5 | 6 | 40.0 | 1.8 | 15 | | |
| | | POOR | 1 | 20 | 26.7 | 6.1 | 26 | 34.7 | 7.9 | 29 | 38.7 | 8.8 | 75 | 22.7 | |
| | | | 2 | 8 | 28.6 | 2.4 | 14 | 50.0 | 4.2 | 6 | 21.4 | 1.8 | 28 | | |
| | | | 3 | 1 | 16.7 | .3 | 4 | 66.7 | 1.2 | 1 | 16.7 | .3 | 6 | | |
| | 12 | GOOD | 1 | 66 | 56.4 | 19.4 | 35 | 29.9 | 10.3 | 16 | 13.7 | 4.7 | 117 | 34.3 | 341 |
| | | | 2 | 35 | 53.8 | 10.3 | 22 | 33.8 | 6.5 | 8 | 12.3 | 2.3 | 65 | | |
| | | | 3 | 17 | 48.6 | 5.0 | 13 | 37.1 | 3.8 | 5 | 14.3 | 1.5 | 35 | | |
| | | MARG | 1 | 37 | 29.6 | 10.9 | 52 | 41.6 | 15.2 | 36 | 28.8 | 10.6 | 125 | 36.7 | |
| | | | 2 | 11 | 22.4 | 3.2 | 24 | 49.0 | 7.0 | 14 | 28.6 | 4.1 | 49 | | |
| | | | 3 | 6 | 26.1 | 1.8 | 10 | 43.5 | 2.9 | 7 | 30.4 | 2.1 | 23 | | |
| | | POOR | 1 | 12 | 12.2 | 3.5 | 39 | 39.8 | 11.4 | 47 | 48.0 | 13.8 | 98 | 28.7 | |
| | | | 2 | 5 | 11.1 | 1.5 | 20 | 44.4 | 5.9 | 20 | 44.4 | 5.9 | 45 | | |
| | | | 3 | 1 | 5.3 | .3 | 8 | 42.1 | 2.3 | 10 | 52.6 | 2.9 | 19 | | |

## Section V

## REFERENCES

1. Daily Weather Maps, Weekly Series, U. S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data Service, Silver Spring, MD.

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