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T-38 STRUCTURAL FLIGHT LOADS DATA
FOR JUNE 1970 THROUGH DECEMBER 1971

Larry E. Clay, et al

Technology, Incorporated

Prepared for:

Aeronautical Systems Division

April 1973

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FOR JUNE 1970 THROUGH DECEMBER 1971**

LARRY E. CLAY

RONALD L. ROCKAFELLOW

Technology Incorporated

TECHNICAL REPORT ASD-TR-72-54

APRIL 1973

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DEPUTY FOR ENGINEERING
AERONAUTICAL SYSTEMS DIVISION
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13. ABSTRACT In a fifth part of a continuing T-38 Service Loads Recording Program (SLRP) to cover the period from 1 June 1970 through 31 December 1971, 4265 hours of VGH data were recorded by A/A24U-10 magnetic tape recording systems installed in twenty-eight T-38 aircraft: 22 fleet and 6 lead-the-force T-38's operating from Williams, Reese, and Moody Air Force Bases. As in previous reports, the data presentation includes curves showing normal load factor (n_z) exceedances above each n_z level per thousand flight hours. Only one n_z exceeded 7.8 (design limit is 7.33), and the comparison of the exceedance curves for the current and previous programs substantiated that the T-38 n_z spectrum had remained unchanged during the T-38 SLRP. Unique to the current program was the introduction of four mission type data groupings which indicated that training missions had the most severe n_z spectrum and that navigation and general-purpose mission had the least severe n_z spectrum. The data also indicated that the aircraft generally performed maneuvers at gross weights above the 9600-pound design weight. Histograms showing the percentage of time in each of five mission segments revealed that more than 50 percent of the time was spent in cruise and only 12 percent in maneuvers.			

14 KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
T-38 jet trainer VGH data flight loads operational data aircraft structures A/A24U-10 recorder						

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SECTION I

INTRODUCTION

This report documents 4265 hours of Vgh data recorded on twenty-eight T-38 aircraft during a continuing T-38 Service Loads Recording Program (SLRP). The instrumented T-38's operated from Williams, Reese, and Moody Air Force Bases. All data were delivered to the contractor's data processing center during the period 1 June 1970 through 31 December 1971.

The T-38, shown in Figure 1, is a supersonic jet trainer used for advanced student training and pilot-upgrading missions.

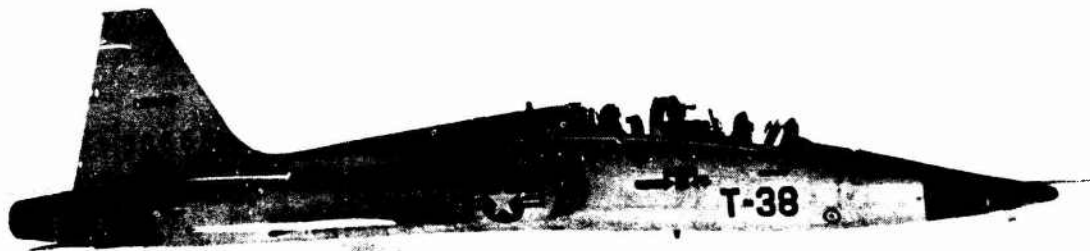


Figure 1. View of T-38 Aircraft

As part of the Aircraft Structural Integrity Program (ASIP), the T-38 SLRP is designed to provide current operational flight data for structural fatigue analyses. Accordingly, under a previous contract, twenty-two fleet and six lead-the-force (LTF) T-38 aircraft were equipped with Vgh magnetic tape recording systems to record airspeed, vertical acceleration, and altitude during flight. In addition, the takeoff and landing fuel weights and the number of pilots per aircraft were written on supplemental data forms to permit the calculation of weight during flight.

In four previous contracts for the T-38 SLRP, reported in References 1 through 4, 7619 and 1588 hours of fleet and LTF T-38 data, respectively, were processed and documented.

During the current phase of the T-38 SLRP, Air Force personnel serviced and maintained the recording equipment, replaced expended magazines, filled out the supplemental data forms, and shipped the data to Technology Incorporated's data processing center. The Company retrieved, processed, analyzed, and documented the data.

After briefly describing the data recording equipment, summarizing the data collection, and explaining the data processing, this report presents the final data and lists conclusions and recommendations.

SECTION II

DISCUSSION

A. Recording System

The T-38 SLRP employs the A/A24U-10 Recording Set (also called the DASR), a digital magnetic tape recorder, as the recording device. The system includes a computer-recorder, an hermetically sealed tape magazine, and a servo-accelerometer which is mounted at the aircraft's center of gravity. Two pressure transducers within the computer-recorder sense static and differential pressure from the aircraft's pitot-static system. The computer converts the differential and static pressures to the corresponding preset intervals of indicated airspeed and pressure altitude before recording them.

The computer-recorder continuously monitors the vertical acceleration and detects and tallies peaks in counters with preset acceleration levels according to the following criteria:

An acceleration peak is any maximum or minimum level preceded and followed by values each at least two recorder levels closer to the 1.0g level-flight reference, where a level is the line separating two adjacent intervals.

In addition, the computer-recorder stores the elapsed time from a 10-minute digital clock and the current indicated airspeed and pressure altitude codes. The contents of all acceleration counters, the elapsed time, and the airspeed and altitude interval codes are transferred to the tape whenever any one of the following four events occurs: (1) the airspeed interval changes, (2) the altitude interval changes, (3) an acceleration counter reaches capacity, or (4) the 10-minute clock completes its cycle. After each data transfer, the acceleration counters are reset to zero and any new airspeed and altitude interval codes are stored. The clock counter is reset only after it completes the 10-minute cycle.

B. Instrumentation and Data Collection

The recording systems in the twenty-eight T-38 aircraft were installed during previous programs as reported in References 1 and 2. During the current phase of the T-38 SLRP, Air Force personnel serviced and maintained the recording equipment. Figure 2 shows the approximate locations of the major recording system components in the T-38 aircraft.

Air Force personnel also performed the data collection task by replacing the tape magazines, completing the supplemental

data forms, and shipping the expended magazines and corresponding supplemental data forms to the data processing facility.

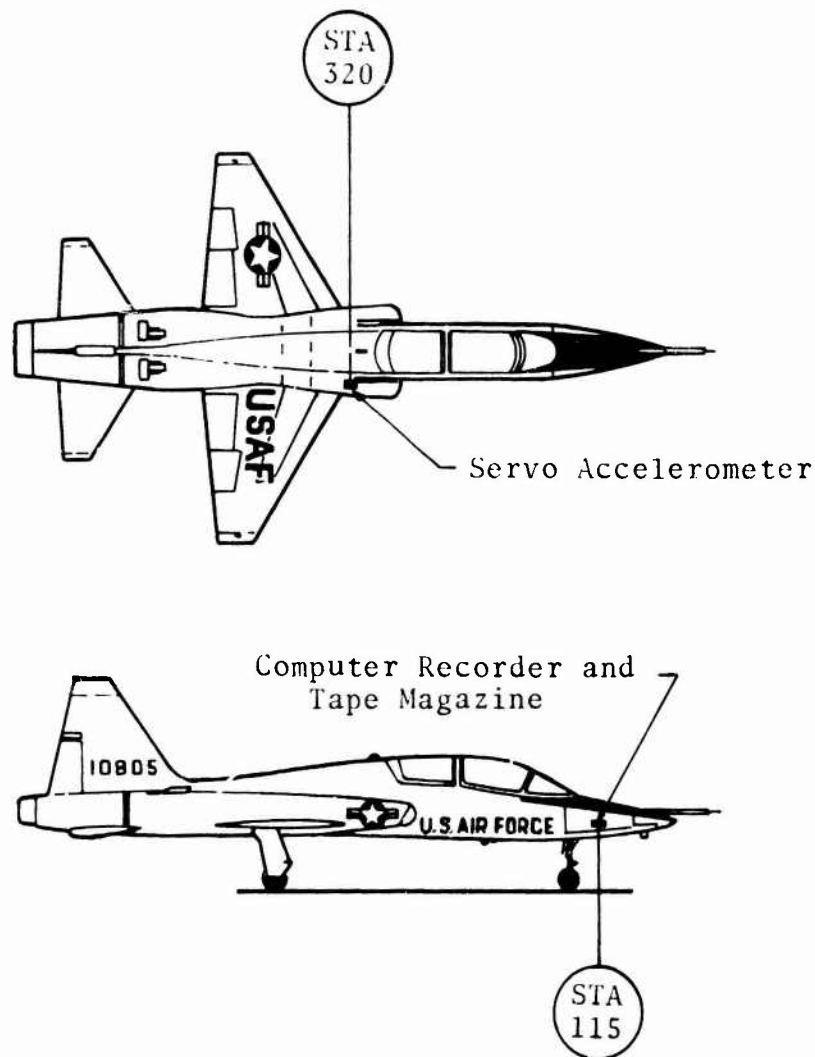


Figure 2. Approximate Installation Positions of Major Recording Systems Components in F-38 Aircraft

A summary of the recorded data received at the data processing facility is listed in Table I. For each instrumented aircraft, this table gives the base, the recorder serial number, the number of magazines received with valid and invalid data, the number of hours represented by valid data, and the airframe hours between the first and last recorded flights.

The data collection rate for the six LTF aircraft decreased so substantially during the current program that only a few magazines were received from these aircraft after January 1971.

TABLE I

Summary of T-38 Data Collection
1 June 1970 through 31 December 1972

Air Base	A/C Ser. No.	Recorder Ser. No.	Air Frame Time(hr) ¹			No. Magazines Rec'd			Valid Data(hrs)	
			Initial	Final	Diff.	Total	Valid ²	Malf.		
T-38 Regular										
Williams	63-8184	437	3484.0	4489.5	1005.5	26	21	5	202.3	
	63-8191	410,95	3911.0	4942.0	1031.0	23	11	12	100.6	
	63-8219	521	3518.0	4283.5	765.5	14	6	8	29.4	
	64-3180	394	3255.0	3977.0	722.0	22	18	4	263.0	
	64-3262	419	2838.0	3687.8	849.8	31	20	11	142.4	
	64-3263	285	3091.0	4054.5	963.5	20	17	3	233.9	
	64-3266	403,83	3174.0	4197.2	1023.2	30	26	4	126.0	
	64-3278	69	3067.0	4127.1	1060.1	29	24	5	285.6	
	64-3279	479	2924.0	4026.5	1102.5	28	27	1	227.4	
	64-3290	506,504	2992.0	3811.1	819.1	28	25	3	159.2	
	64-3301	412	2935.0	3939.1	1004.1	28	25	3	210.6	
Reese	62-3644	498	4054.0	4835.6	781.6	24	24	--	225.9	
	62-3645	154	359.0	4289.7	398.7	21	9	12	95.9	
	62-3646	162	4106.0	4739.0	633.0	23	22	1	218.8	
	62-3650	156	3826.0	4632.7	805.8	16	14	2	128.8	
	62-3651	160	3971.7	4865.3	893.6	32	31	1	216.6	
	62-3652	159	4044.0	4907.0	863.0	19	6	13	67.7	
	62-3653	164	3999.0	4795.0	796.0	26	25	1	254.7	
	62-3654	161	3994.0	4378.8	384.8	21	21	--	190.0	
	62-3655	146	3852.0	4751.4	899.4	38	37	1	337.5	
	62-3656	166	3952.0	4839.2	887.2	21	1	20	7.1	
	62-3657	157	3899.0	4619.0	720.0	22	20	2	179.2	
	Total					18709.4	542	430	112	3902.6
	T-38 LIF									
	Williams	61-0881	147,247	4765.0	5184.5	419.5	17	12	5	127.6
		61-0897	387,373	5346.0	5919.0	573.0	11	1	10	16.1
Reese	61-0816	UNK ³	UNK	UNK	--	1	--	1	--	
	61-0945	440	4296.3	4570.4	274.1	3	3	--	31.2	
Moody	63-8158	100	3650.2	4086.7	436.5	22	18	4	187.3	
	63-8178	3708,18	4067.0	4619.4	552.4	14	--	14	--	
Total					2255.5	68	34	34	362.2	

¹Extends from first to last recorded flight received.

²Magazines with at least one flight with valid data.

³Unknown - complete supplemental data not received.

C. Data Processing

1. Data Definitions

The intervals for airspeed, altitude, and normal acceleration were defined by the recorder, and 1000-pound intervals were used in processing and presenting the gross weight data.

The mission type and mission segment definitions are listed in Table II.

TABLE II
MISSION TYPE AND MISSION SEGMENT DEFINITIONS

T-38 Mission Types	
<u>Mission Type</u>	<u>Definition</u>
Training	Flights with aerobatics and touch-and-go landings with a student pilot aboard.
Formation	Formation flights with a student pilot aboard.
Nav & General	Instruments and Navigation and other cross-country flights with a student pilot aboard.
Administrative	Test flights and other flights with no student pilot aboard.
T-38 Mission Segments	
<u>Mission Segment</u>	<u>Definition</u>
Initial Ascent	First climb to a cruise altitude.
Cruise	Straight-and-level flight segments with no significant changes in airspeed, altitude, or acceleration.
Maneuver	Flight segments with airspeed and altitude changes and frequent or large acceleration peaks.
Final Descent	Last major descent before a full-stop landing.
Practice Landing	Flight segments between practice landings.

The equivalent normal load factor (n_{ze}) was calculated from the n_z distributions in each gross weight range. The equivalent normal load factor is defined as

$$n_{ze} = n_z (W_i / W_D)$$

where

n_z = normal load factor
 W_i = instantaneous gross weight
 W_D = design gross weight = 9,600 pounds.

The n_z peaks recorded by the A/A24U-10 are known only as occurrences in intervals such as 1.4g to 1.8g and 1.8g to 2.2g. Although these intervals suffice to represent load factor spectra, they are too broad to permit calculating n_{ze} exactly. Reference 1 describes the method to distribute the n_z peaks across the width of each n_z interval.

The aircraft weight for any instant during each recorded flight was calculated by using a constant fuel consumption rate based on the engine start and shutdown fuel information for the given flight. An initial burnoff of 400 pounds was assumed to account for the start-up, taxi, and takeoff before the start of the ascent.

As described in Reference 1, the method for calculating the equivalent airspeed (V_e) is similar to that for n_{ze} .

2. Data Processing Operations

The data processing consisted basically of three major operations: (1) data retrieval, (2) reporting on data and equipment, and (3) final processing.

First, the data on the tape magazines were retrieved by the MXU-386/E flight data reproducer which transcribed the data onto a computer-compatible tape. The magazines were then erased, identified as being either serviceable or repairable, and shipped to the supply depot at Tinker AFB, Oklahoma.

Next, a preprocessing run on the data tape produced a preliminary printout to permit checking the data validity and the equipment operation. This printout, along with the history of each recording set and tape magazine, enabled personnel to prepare weekly reports. These reports detailed the status of the data and equipment, isolated any malfunctions in the equipment, and suggested remedial action for base personnel. Copies of these reports were sent to ASD at WPAFB, the repair center at OCAMA, and base personnel at Williams, Reese, and Moody Air Force Bases.

The preliminary data printout was also used to isolate and match data flights to the supplemental data forms supplied by the base. The form to log the supplemental information was changed in May of 1970 from AFTO Form 131 to Technology Incorporated DP Form 1304. The new form was introduced to simplify the logging and to classify the mission types in more meaningful categories, as listed in Table II. These categories were used in processing the data for this report.

After the supplemental data and the mission segment boundaries were entered manually and all ground data was deleted, the valid VGH data was computer-processed. The processed data was then checked for validity on a flight-by-flight basis. Once the data was determined to be correct, it was accepted onto a master file where the Regular and Lead-the-Force data were kept on separate tapes. This file was used to generate the various data tables presented in this report.

D. Data Presentation

Because of the amount of data, the discussion of the data results is included in this section, but the corresponding data figures and tables are included in Appendices A through D. The times in the computer tabulations have been rounded to the nearest 0.1 hour. Times below 0.05 hour (3 minutes) are represented by 0.0. Zero times are represented by a blank. Tables containing no peaks and less than 3 minutes of time have been omitted.

1. Composite Data (see Appendix A)

The data from the 6 LTF T-38's and that from the 22 fleet T-38's, designated "T-38 LTF" and "T-38 Regular," respectively, were treated separately. Figure 3 presents n_z exceedance (n_z peaks per thousand flight hours above each n_z level) curves for the two sets of data. For comparison with the current data, this figure also includes exceedance curves for four previous T-38 SLRP programs (see References 1 through 4). As apparent, all curves are generally the same.

For the current T-38 Regular and T-38 LTF, Figure 4 presents a tabulation and plot of n_z peak frequencies in n_z versus indicated airspeed intervals. As taken from Reference 5, the design V-n envelope serving as a reference in the plot is for the 8000-pound gross weight and sea-level condition. As apparent, only one n_z peak over 7.8 was recorded (the design limit is 7.33). Most of the symbols above the curved part of the envelope represent n_z 's whose corresponding airspeed intervals were too low because of the recorder peak detection logic which registers the peak in the airspeed interval at the end of the n_z activity instead of at the peak (see Reference 1).

The mean exceedance curves and the upper 90 percent tolerance limit on these curves are plotted in Figure 5 for the T-38 Regular and T-38 LTF data. Assuming that the exceedances of the individual aircraft have a Gaussian distribution, 90 percent of the fleet and LTF T-38's would have exceedance values below their respective tolerance limit curves.

For the composite data, Figure 6 compares incremental equivalent normal load factor (n_{ze}) and incremental normal load factor (n_z) curves. The two curves agree closely in the negative n_z region, but the Δn_{ze} curve is slightly higher in the positive n_z region which indicates that the aircraft generally performed maneuvers at gross weights above the 9600-pound design weight.

Table III and Figure 7 present the positive and negative Δn_z peaks for both the T-38 Regular and the T-38 LTF data broken down by air base. The Δn_z spectra for all the bases are almost equal.

2. Mission Type Data (see Appendix B)

The four mission types are compared in Figure 8 which shows both positive n_z and negative Δn_z exceedance curves for each type in both the T-38 Regular and the T-38 LTF data. As seen here, the Training mission data has the most severe positive n_z spectrum, and the Administrative mission data which includes test flight data has the most severe negative Δn_z spectrum. For the T-38 Regular data, the Nav & General mission has the least severe n_z spectra. For the T-38 LTF data, however, the Nav & General and the Formation mission curves are generally

equal and less severe than the curves for the other two mission types.

For each mission type, Table IV lists n_z peaks in n_{ze} intervals versus aircraft serial number (tail number).

3. Mission Segment Data (see Appendix C)

The five mission segments are compared in Figure 9 which shows both positive n_z and negative Δn_z exceedance curves for each segment in both the T-38 Regular and the T-38 LTF data. Of the positive and the negative curves for both the T-38 Regular and the T-38 LTF data, those for the Maneuver mission segment spectrum are by far the most severe. For each mission segment, Table V lists the n_z peak frequencies in n_z intervals.

For each mission type, Figure 10 depicts in histogram form the percentage of total mission time in each mission segment. More than 50 percent of the composite flight time was spent in the cruise mission segment. The most severe mission segment, Maneuver, accounted for only 12 percent of the composite flight time.

For each of the four mission segments, a figure was prepared to present (1) positive and negative Δn_z exceedances for each mission type and the composite of all missions, (2) the percentage of total mission segment time in each equivalent airspeed interval for each mission type and the composite of all missions, (3) the percentage of total mission segment time in each pressure altitude interval for each mission type and the composite of all missions, and (4) the percentage of total mission segment time in each aircraft gross weight interval for each mission type and the composite of all missions. Figures 11, 12, 13, 14, and 15 present the above data for the Initial Ascent, Cruise, Maneuver, Final Descent, and Practice Landing mission segments, respectively.

Also for each mission segment, Table VI lists the n_{ze} frequencies in a breakdown by mission type.

4. Additional Data Tabulations (see Appendix D)

Tables VII through X include additional T-38 data which could not be included in the above categories. As mentioned above, time entries of 0.0 hours in these tables indicate times greater than zero but less than 3 minutes.

With a breakdown by mission type, Table VII distributes the frequencies of n_z peaks in n_z versus gross weight intervals for each mission segment.

For all mission types in the T-38 Regular data and for the Training and the Nav & General missions in the T-38 LTF data,

Table VIII presents n_z peak frequencies in n_z versus equivalent airspeed intervals with a progressive breakdown by mission type, gross weight, and altitude. In the other two mission types of the T-38 LTF flights, the data was insufficient to be meaningful in this type of tabulation.

With a breakdown by altitude, Table IX lists the frequencies of n_z peaks in n_{ze} versus equivalent airspeed intervals, and Table X lists the same data broken down further by mission type.

The average flight duration and the average number of touch-and-go landings per flight were 66 minutes and 1.25 for the Regular T-38's and 65 minutes and 0.98 for the LTF T-38's. In the composite data, as shown in Table XI, the average number of touch-and-go landings per flight were 2, 1, 0.30, and 0.35 for the Training, Formation, Nav & General, and Administrative missions, respectively. The comparison of the current data and the 1963-64 T-38 data (Reference 4) shows that the average number of touch-and-go landings per flight in the current data remained about the same in the Formation missions, decreased 25 and 60 percent in the Training and the Administrative missions, respectively, and increased 50 percent in the Nav & General missions.

SECTION III

SUMMARY AND CONCLUSIONS

1. The n_z spectrum for the current T-38 SLRP phase has not changed from those recorded during the previous phases.
2. There is no significant difference between the n_z spectra recorded at Williams, Reese, and Moody Air Force Bases.
3. Only one n_z peak exceeded 7.8g during the current T-38 SLRP phase.
4. The new mission type data groupings, introduced in June 1970, permit a more rational presentation of the data. During the current T-38 SLRP phase, the Training and the Nav & General missions had the most and the least severe n_z spectra, respectively.

SECTION IV

RECOMMENDATIONS

1. The A/A24U-10 Recording Set should be redesigned so that each acceleration peak can be associated with the airspeed and altitude intervals at the peak.
2. The T-38 flight loads program should incorporate a better field test set (one that tests the data from the tape magazine to ascertain that the recorder is writing valid data on the tape) to detect malfunctioning recording systems before recording a full magazine of invalid data.
3. If feasible, a cockpit mission-type selector switch and a fuel-quantity sensor should be incorporated in the recording system and their signals should be recorded in the spare word position of the A/A24-10 Recording Set to eliminate the need for supplemental data in the T-38 SLRP.

APPENDIX A
COMPOSITE DATA

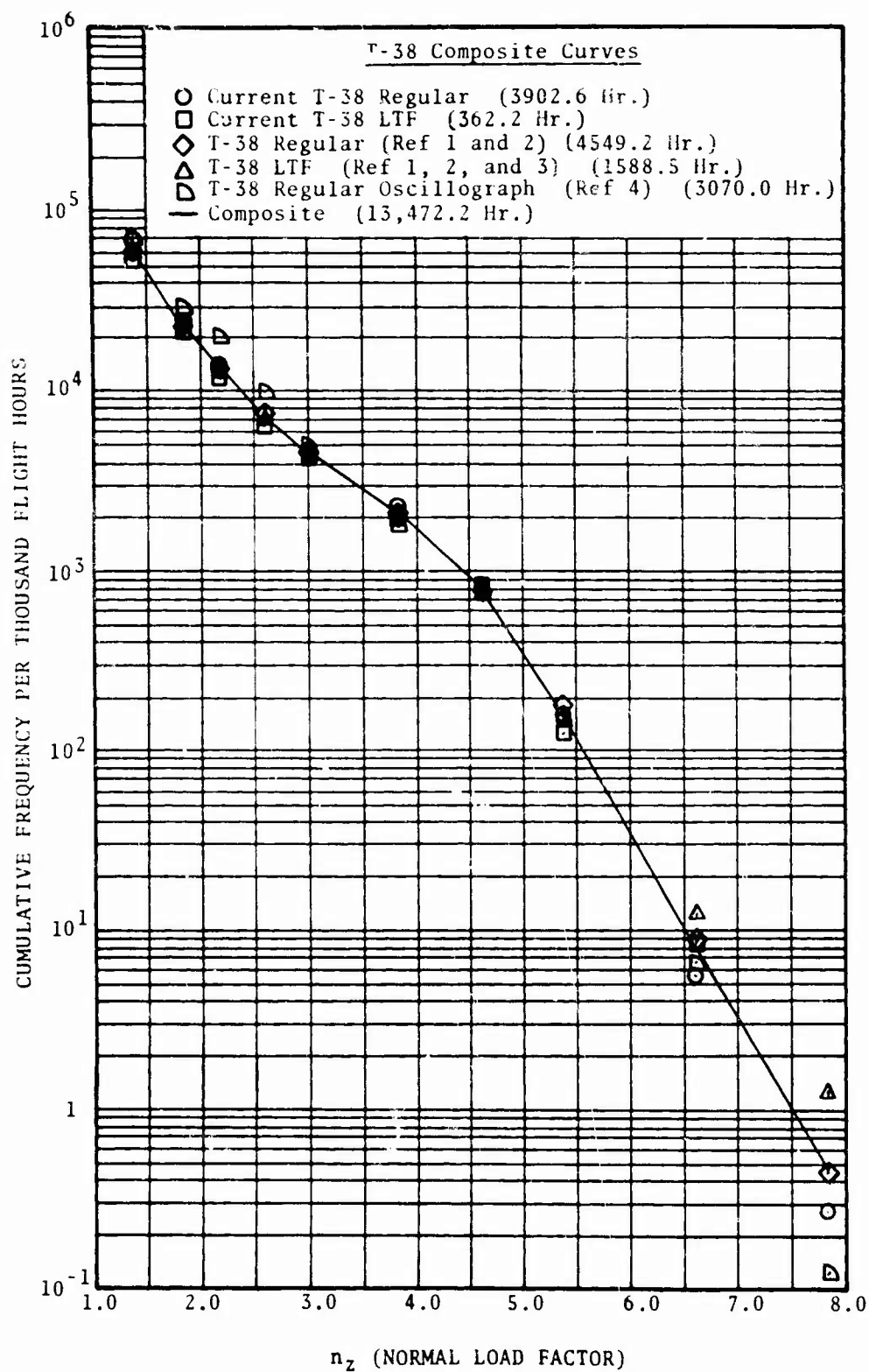
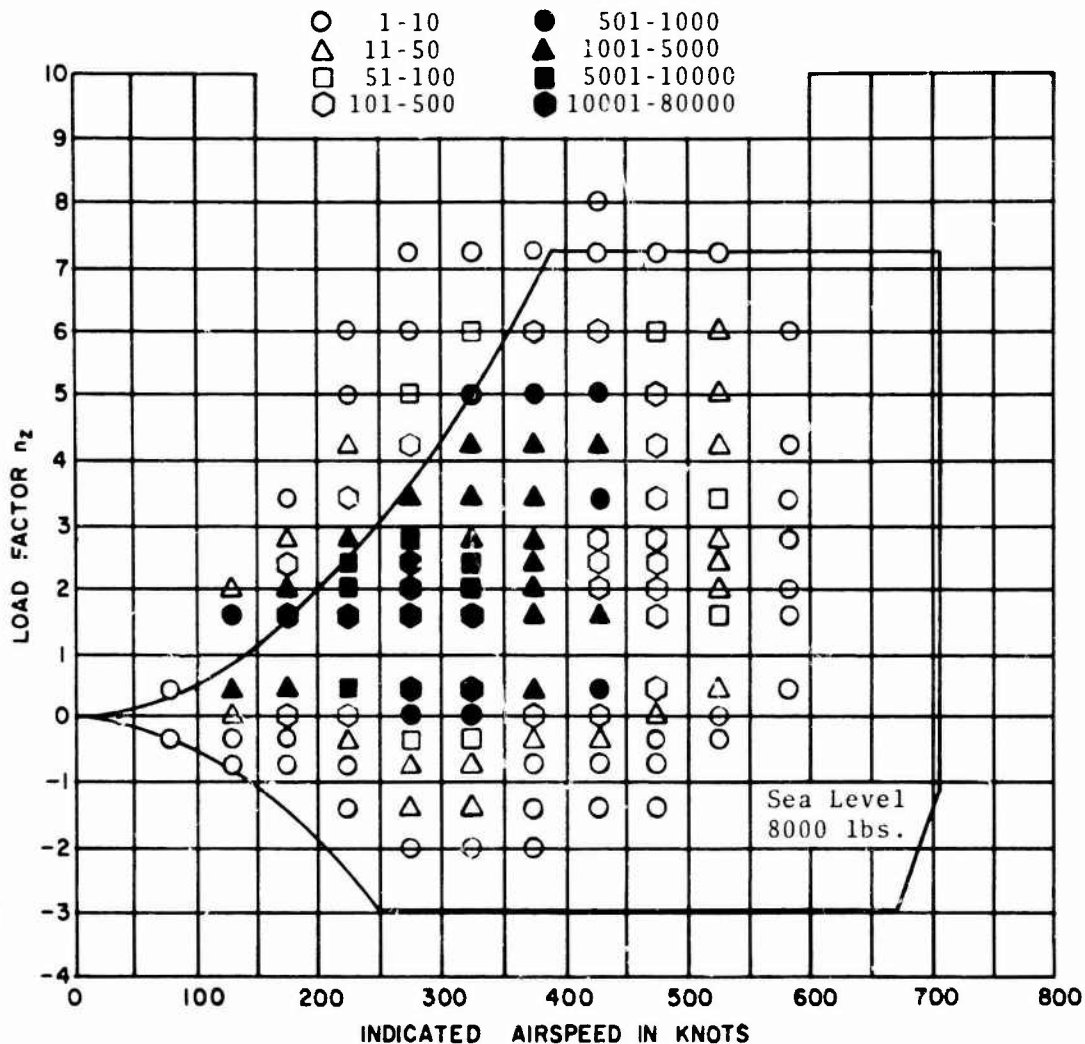


Figure 3. Composite n_z Exceedance Curves for Current and Past T-38 Data

AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS						7											0.2
100			1	2	31	2219	739	14									11.8
150			1	3	210	3460	17796	3850	942	19	1						263.8
200		3	6	11	335	8986	28190	6213	9311	1559	413	21	3	2			670.9
250	1	26	20	55	895	31478	75408	18597	12073	5066	2172	491	86	5	1		1640.4
300	2	28	28	71	607	13185	42611	9724	5383	2638	2810	1763	964	160	1		1094.2
350	2	8	4	26	206	2244	4686	1482	1128	1178	2124	1631	640	211	5		167.8
400		2	5	12	103	724	1046	402	352	375	699	1114	654	145	7	1	37.7
450		1	1	4	39	360	411	186	144	160	383	353	230	99	4		14.0
500				1	4	41	57	33	15	25	59	46	30	13	2		2.0
550						2	3	3		1	2	3		1			0.0
625																	
700																	
TOTAL	5	68	66	187	2430	62706	170953	40904	25448	11021	8863	5422	2592	576	20	1	3402.6

T-38 Regular: n_z Peak Frequencies
(3902.6 Hrs.)

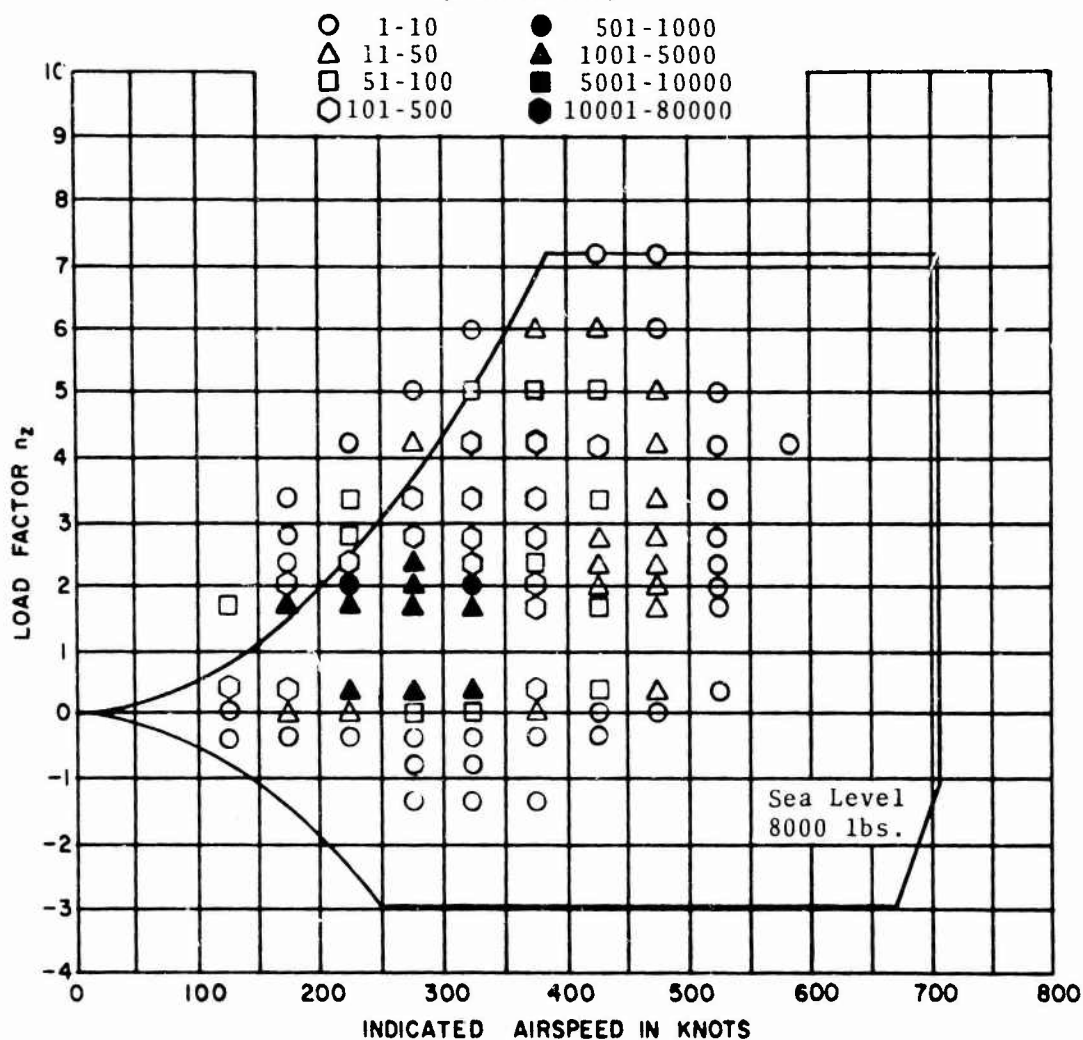


a. T-38 Regular

Figure 4. Plot and Tabulation of n_z Peaks in n_z versus Indicated Airspeed Intervals

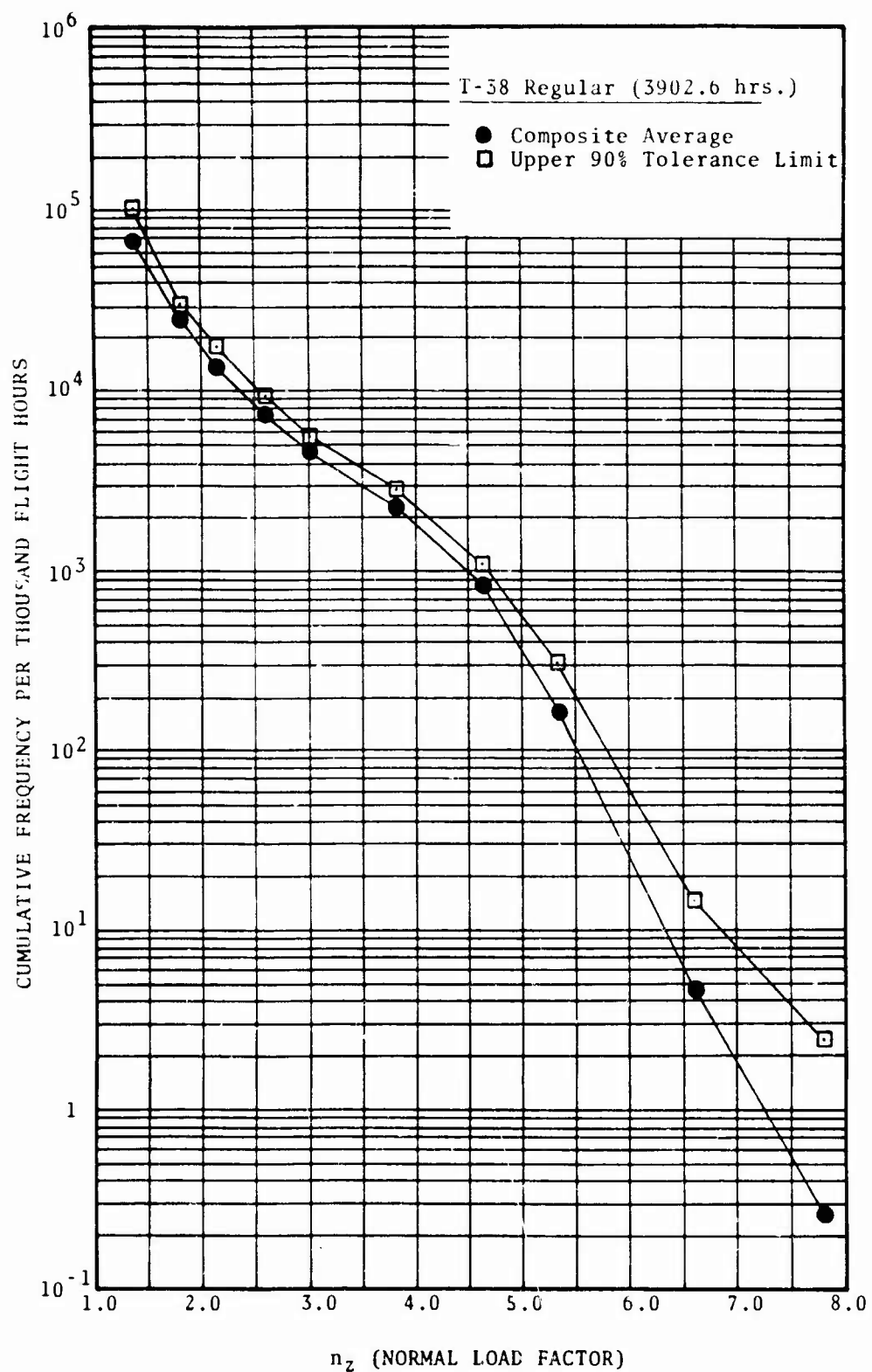
AIRSPED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	0.0
100				2	4	243	66										0.9
150				4	25	410	1665	232	10	1	1						28.3
200				2	33	1027	1797	550	376	85	53	1					63.2
250			2	3	9	3108	4954	1640	1034	362	189	38	9				162.0
300		2	2	6	61	1261	2797	740	463	228	245	131	99	2			88.5
350		2		4	21	207	328	130	99	105	177	115	58	15			15.1
400				2	8	68	78	38	33	27	83	102	68	21	1		3.0
450					4	42	21	18	18	19	35	24	17	7	2		1.3
500						4	4	1	1	3	8	5	3				0.2
550												1					
625																	
700																	
TOTAL		6	5	29	246	6370	11710	3349	2034	830	791	417	254	45	3		362.2

T-38 LTF: n_z Peak Frequencies
(362.2 Hrs.)



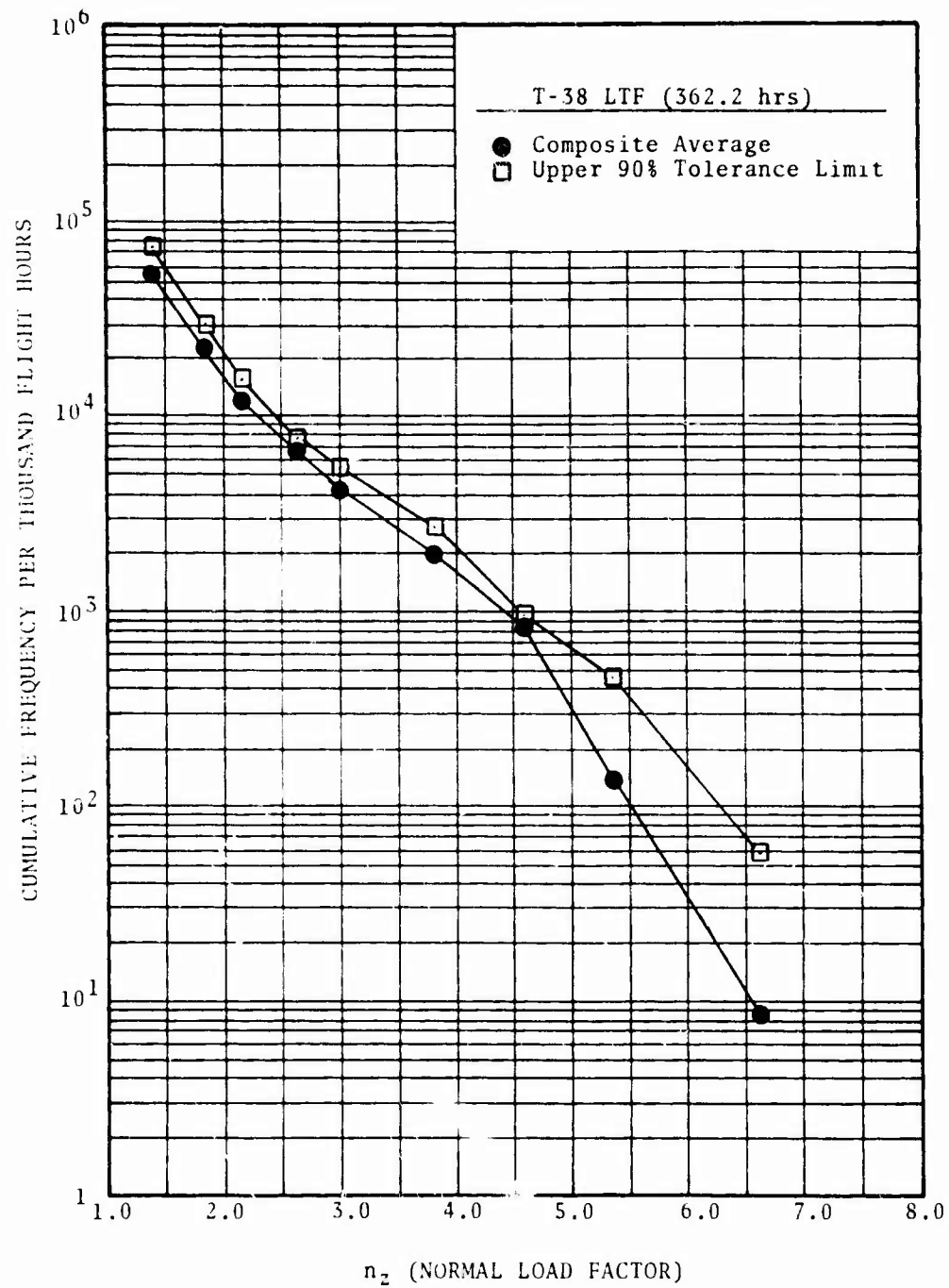
b. T-38 LTF

Figure 4. (Concluded)



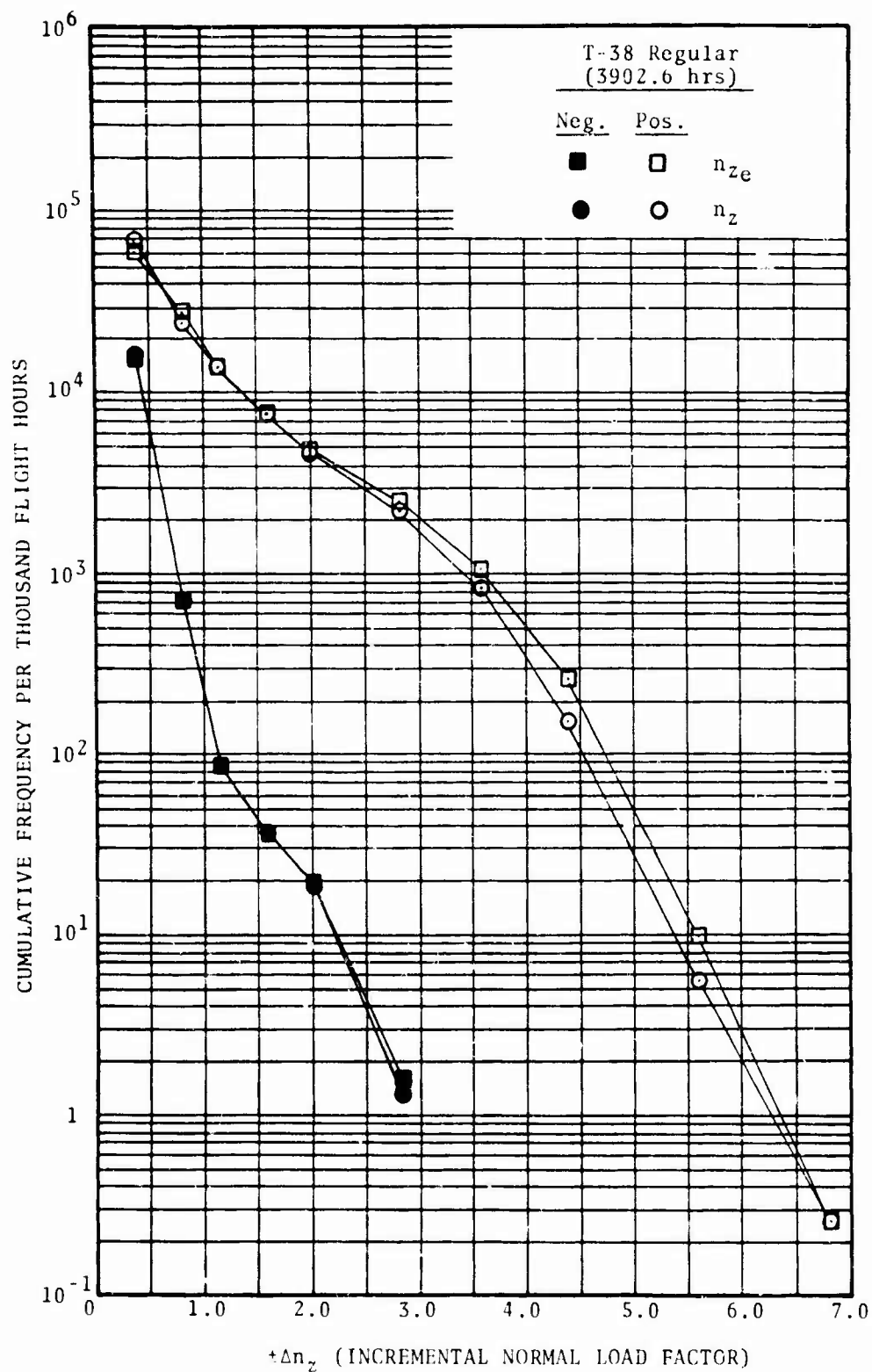
a. T-38 Regular

Figure 5. Mean n_z Exceedance Curve and 90% Tolerance Limit



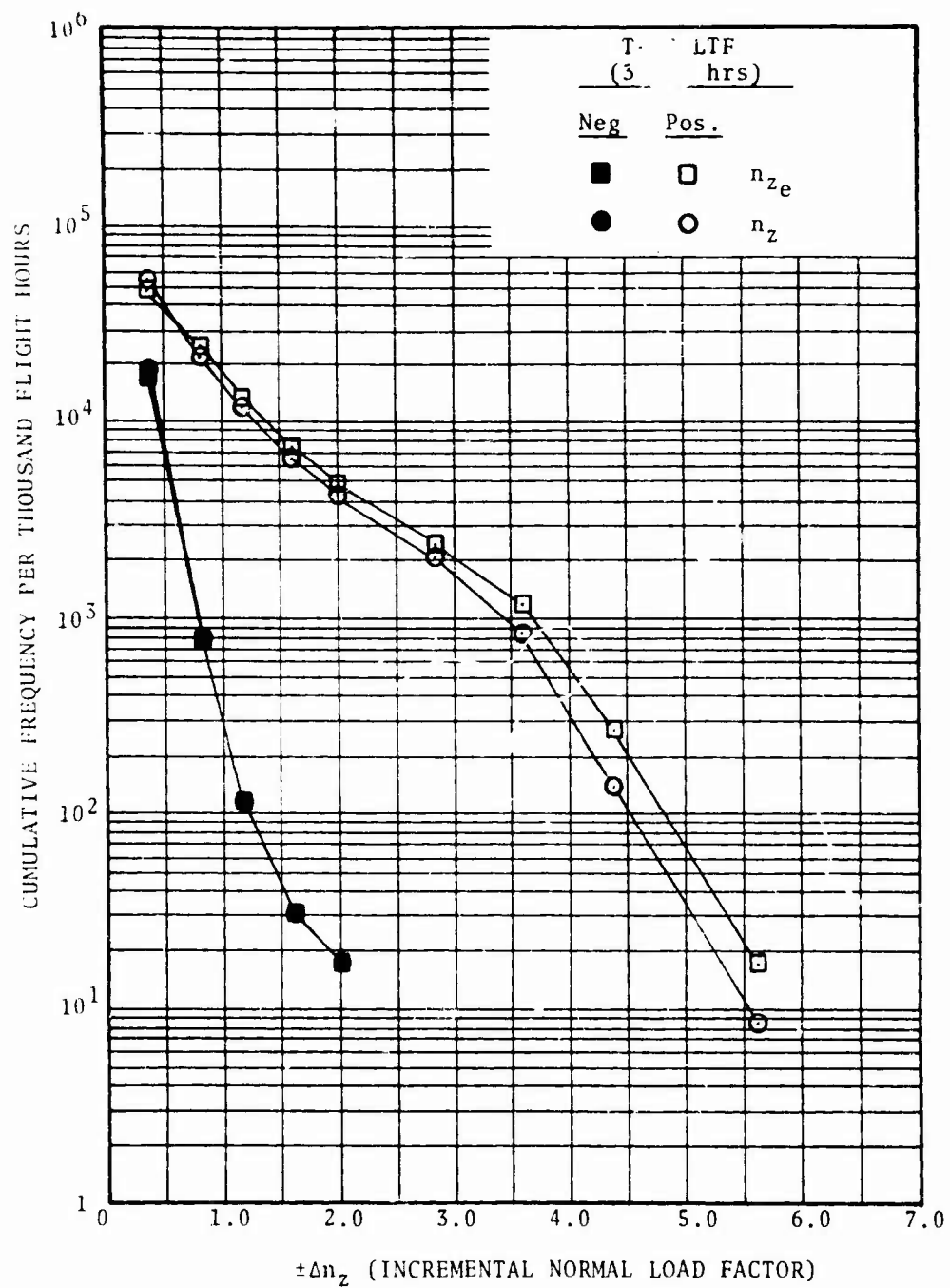
b. T-38 LTF

Figure 5. (Concluded)



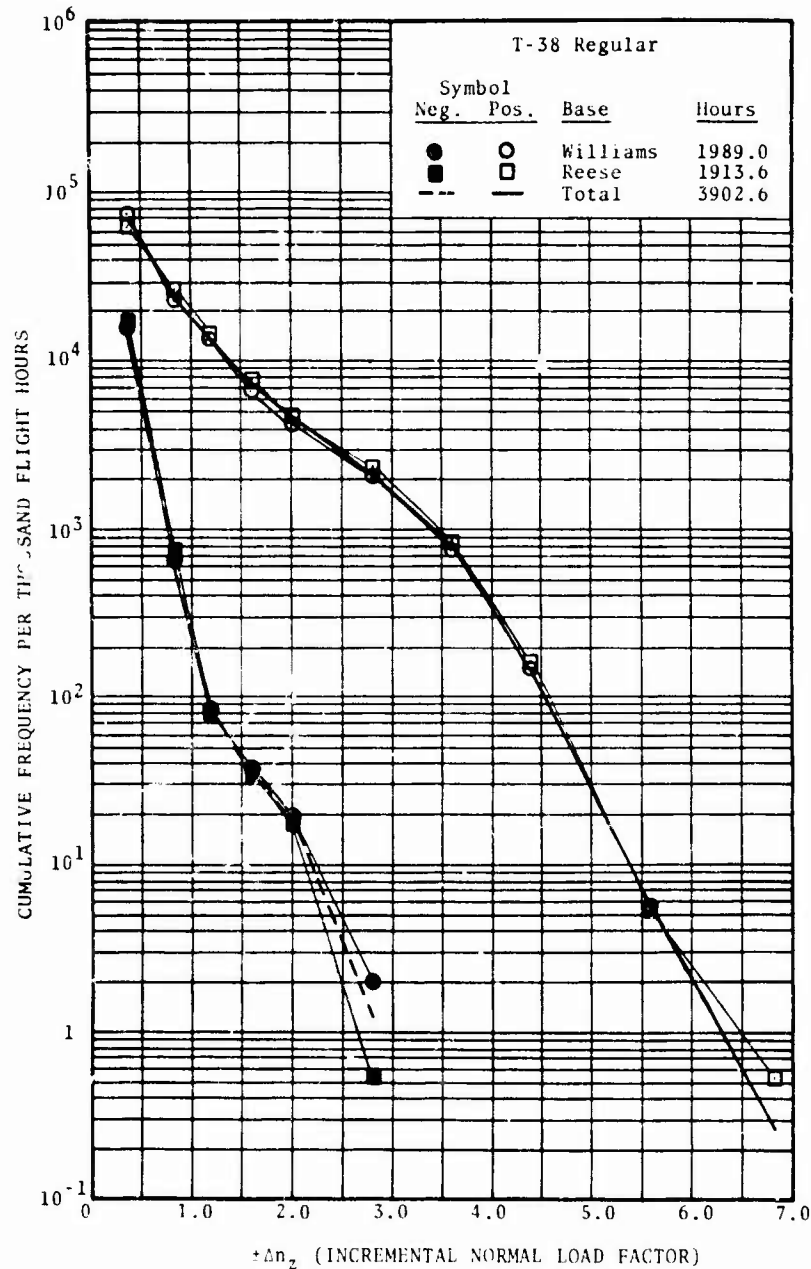
a. T-38 Regular

Figure 6. Composite n_z and n_{ze} Exceedance Curves



b. T-38 LTF

Figure 6. (Concluded)



a. T-38 Regular

Figure 7. Exceedance Curves of Positive and Negative n_z Peaks for Each Base

TABLE III Frequencies of n_z Peaks in n_z Intervals versus Base

a. T-38 Regular

BASE	LFSS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
WILLIAMS	4	35	38	92	1137	29922	99140	19559	12608	5116	4320	2528	1261	280	11		1989.0
REESE	1	33	28	95	1293	32784	71813	20945	13040	5905	4543	2894	1331	266	9	1	1913.6
TOTAL	5	68	66	187	2430	62706	170953	40504	25648	11021	8863	5422	2592	546	20	1	3902.6

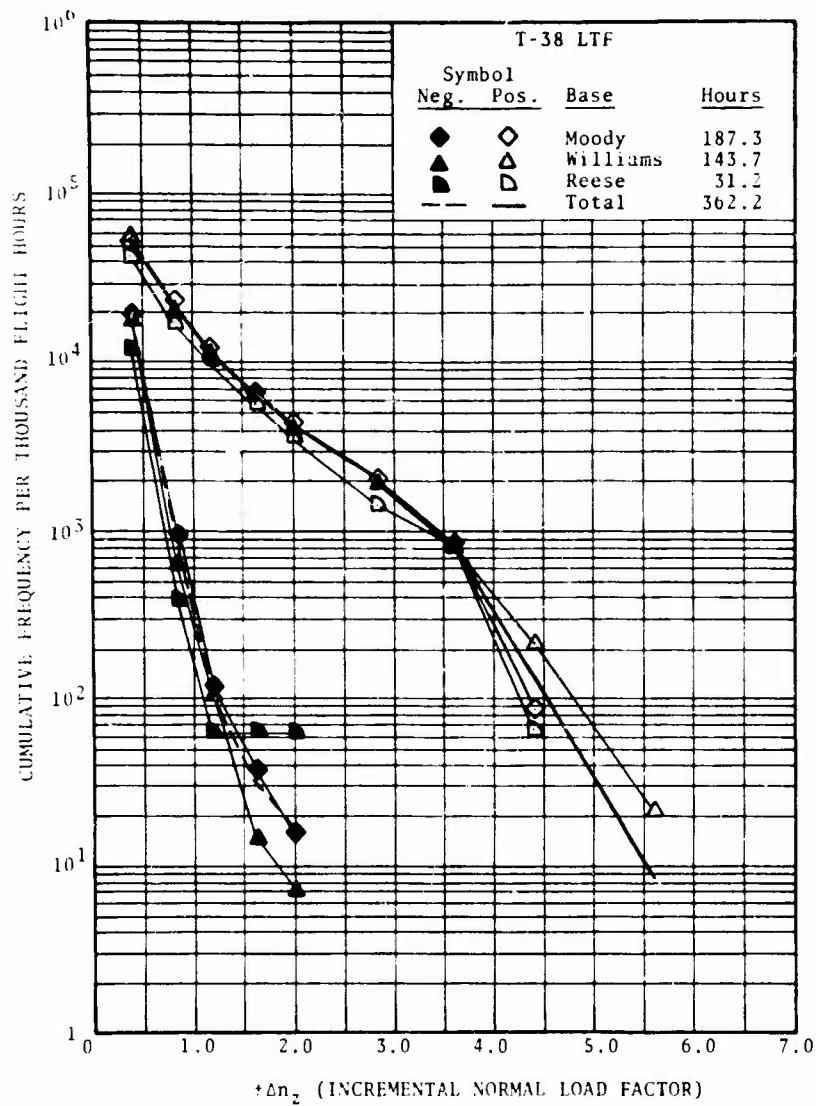


Figure 7. (Concluded)

TABLE III (Concluded)

b. T-38 LTF

BASE										NZ										TIME
LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS				
MOODY	3	4	16	160	3517	5579	1942	1191	426	427	231	144	16			187.3				
WILLIAMS	1	1	13	76	2465	5260	1221	709	337	294	167	87	27	3		143.7				
REESE	2			10	388	841	186	134	67	70	19	23	2			31.2				
TOTAL	6	5	29	246	6370	11710	3349	2034	830	791	417	254	45	3		362.2				

APPENDIX B
MISSION TYPE DATA

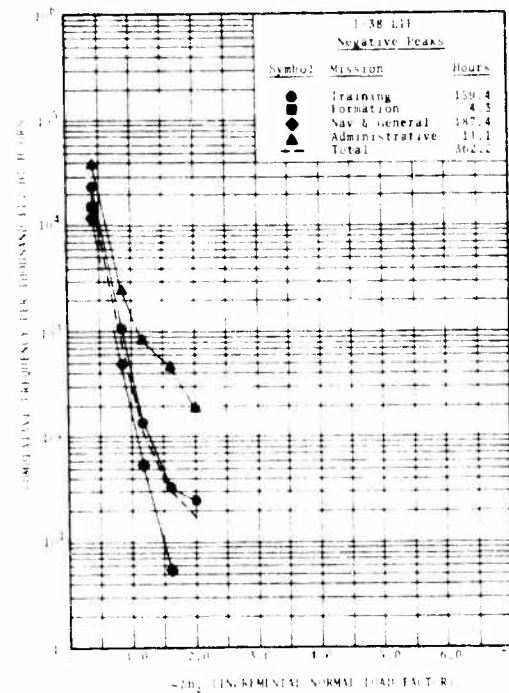
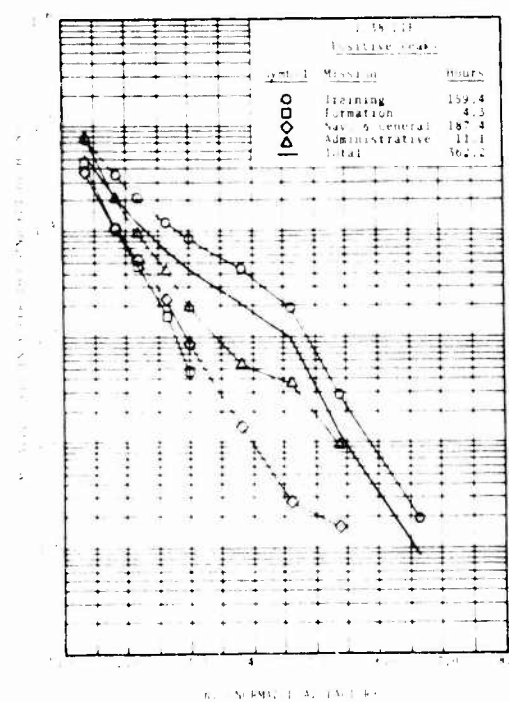
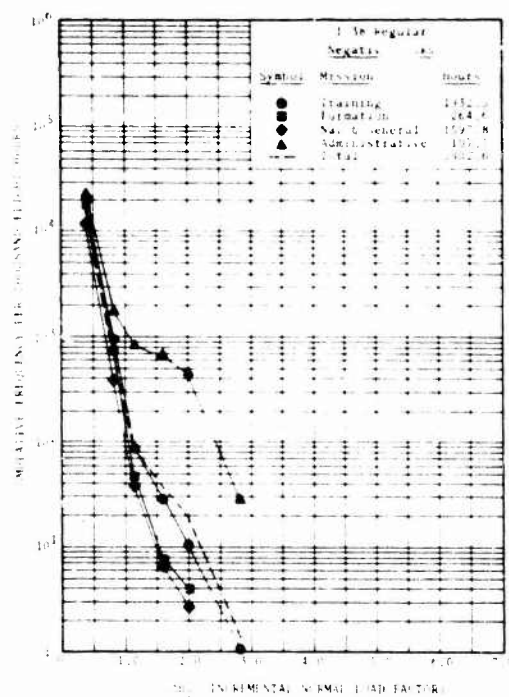
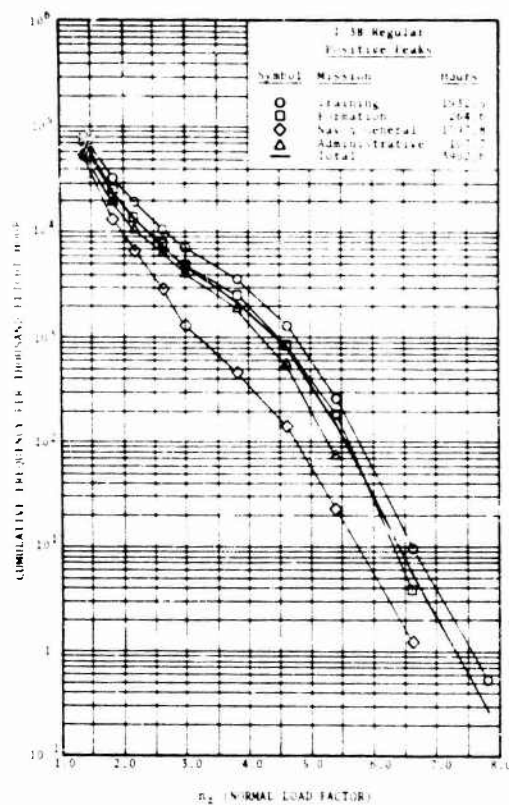


Figure 8. Exceedance Curves of Positive and Negative n_2 Peaks for Each Mission Type

TABLE IV Frequencies of n_z Peaks in n_{ze} Intervals versus Tail Number by Mission Type

a. T-38 Regular

Mission 1 - Training

MISSION		NZE																TIME	
A/C	TAIL NO	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.6	4.6	5.4	6.6	7.8	TOTAL	HOURS
	3180				7	76	1225	2860	1388	818	431	408	242	148	51			7696	100.1
	3262		1	4	42	693	2075	1191	579	261	245	153	111	35		4		5394	72.2
	3263		1	3	79	1302	3118	1623	853	354	366	246	151	65	2			8163	100.4
	3266			2	2	44	676	7660	2415	966	231	252	162	102	38			11060	64.1
	3278		1	4	4	86	1671	4005	1992	949	431	438	301	198	63	4		10147	121.9
	3279			3	8	58	1772	3764	1833	830	351	307	189	111	26	1		9283	100.7
	3290			1	3	31	1012	2178	1145	610	261	212	131	80	30	2		5666	59.5
	3301			1	1	4	77	1311	2888	1234	684	305	325	203	134	48		7215	84.8
	3644			2		6	133	3548	4701	1953	1005	491	455	249	117	49	2	12711	124.0
	3645				2	58	902	1187	645	377	177	185	165	92	18			3808	46.3
	3646				5	12	88	1319	3476	1890	997	464	404	265	134	46	3	9103	116.2
	3650		2		4	70	1889	2160	1017	559	249	239	150	88	24	1		6452	70.1
	3651			1	2	11	94	2049	3932	2739	1121	487	418	271	147	56		10878	132.5
	3652				2	31	639	1117	563	251	116	105	81	49	18			2967	35.4
	3653				9	109	1900	3953	2151	1163	506	467	351	179	46			10831	146.4
	3654				11	86	1853	3158	1720	950	383	305	206	118	31			8821	92.0
	3655		2	5	5	156	3345	5216	2950	1639	742	624	441	240	63	2	1	15441	209.3
	3656					18	179	248	117	41	20	30	11	3	3			670	6.2
	3657		3	2	6	81	1351	2660	1465	806	392	376	238	110	41			7511	88.5
	8164		2	4	3	9	134	2735	5093	1977	878	401	414	239	151	52	3	12095	107.8
	8161			1	2	1	44	860	1855	889	592	208	183	95	59	15		4804	46.0
	8219					1	14	596	659	313	167	59	35	33	12	2		1894	13.6
	TOTAL	2	18	32	114	1609	32830	67428	31710	16440	7340	6793	4422	2525	820	24		1172108	1932.5

Mission 2 - Formation

MISSION		2																		NZE																		TIME	
A/C TAIL NO		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TOTAL	HOURS																				
3180						3	71	96	32	22	3	2	1	1				191	4.6																				
3262						6	160	437	159	75	23	20	10	6	6			902	11.1																				
3263						1	12	37	6	4	2							62	1.3																				
3266						5	84	556	117	35	26	20	16	10	1			865	7.3																				
3278						9	276	695	344	126	64	61	25	10	8			1618	25.2																				
3279						18	461	794	308	133	54	46	28	9				1855	17.3																				
3290				3		1	68	119	47	7	7							276	4.0																				
3301						18	388	907	514	262	102	94	34	23	4			2346	38.0																				
3644				1		5	232	217	78	32	20	22	6	3	1			417	8.5																				
3646				1		22	318	842	402	228	99	84	53	31			1	2081	27.8																				
2650				2		11	244	297	178	103	59	47	19	11	3			974	10.5																				
3651				2		28	424	701	348	154	60	61	38	19	8			1843	17.0																				
3652							27	31	15	7	2	4	7	4	3			100	1.2																				
3653						7	165	391	261	90	31	37	25	10				1032	16.3																				
3654				1		14	416	768	333	145	67	66	47	24				1885	28.9																				
3655				1		22	414	677	331	160	77	95	74	28	2			1881	23.5																				
3657						10	242	544	290	101	42	45	17	10	4			1325	20.1																				
TOTAL		1	1	10	180	3962	8129	3758	1697	738	711	407	209	55	1			19859	264.4																				

TABLE IV (Continued)

Mission 3 - Nav & General

MISSION		3																			
A/C TAIL NO		NZE																			
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.2	7.8	TOTAL	TIME HOURS		
3180			1		7	36	136	4049	1288	528	257	142	37	21	9			7718	145.1		
3262			2	1	4	19	526	1611	855	361	147	105	26	5	2			3644	58.0		
3263						34	978	3239	1175	427	143	130	44	6				6175	124.1		
3266						15	562	5623	1077	215	111	73	23	6	1			7706	52.2		
3278					3	39	1325	3822	1431	547	240	163	64	32	10			7678	127.6		
3279					5	50	1429	3282	1136	429	152	123	57	18	3	1		6601	106.1		
3290				2	3	33	1161	2147	868	347	137	91	22	4	5			4820	89.4		
3301				1	3	38	798	1994	862	365	138	84	31	11	1			4306	79.1		
3644		1	1	1	4	135	2084	931	348	140	82	30	11					5012	87.3		
3645				1	13	496	1139	439	194	75	47	30	5					2449	46.3		
3646				2	14	477	1411	466	202	75	35	7	4					2603	68.3		
3650				3	19	593	906	439	161	46	11	1						2179	46.8		
3651				4	16	659	1666	642	190	83	57	23	12	3				3355	59.5		
3652					13	517	932	373	162	59	10	1						2047	31.1		
3653				4	30	959	2195	886	426	110	60	14	2					4586	95.8		
3654				4	25	624	1348	551	203	98	66	30	10	3				2962	59.4		
3655				1	29	842	2047	747	282	125	49	10	6					4148	94.9		
3657					27	826	1867	765	293	86	29	5	1					3809	69.5		
8184				2	35	1128	2510	963	397	179	109	32	14					5369	89.2		
8191				2	13	525	1560	555	193	93	36	9	5					3021	54.6		
8219				1	7	287	445	183	83	36	44	23	9	1				1140	15.2		
TOTAL		4	6	49	553	17392	45927	16612	6233	2536	1546	519	196	41	3			61617	1597.8		

Mission 4 - Administrative

MISSION 4		NZE																	TOTAL	TIME HOURS
A/C	TAIL NO	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.4	3.0	3.8	4.6	5.4	6.6	7.8	TOTAL	TIME HOURS	
3180			2	2	1	13	120	188	88	31	18	25	20	8				516	13.3	
3262				1	1	2	23	50	15	11	7	4	3					117	1.1	
3263			6			4	110	149	100	52	12	14	12	5	2			467	8.2	
3266			5	1	1	10	66	112	56	23	13	16	7	3	1			314	2.3	
3278	1		2	3	3	8	208	360	142	48	20	21	9	1				824	8.9	
3279			4	1	2	7	153	155	71	34	12	22	12	4				477	7.0	
3290	1		2	2		2	40	75	41	16	18	35	27	4	1			244	4.3	
3301				5	1	6	111	241	119	42	19	22	15	7	1			589	8.6	
3644			1	4		3	202	202	63	31	15	3	5	1				530	6.1	
3645						12	164	163	61	24	9	16	7	8				468	3.3	
3646			2	1	1		69	170	75	40	11	17	8	3				897	6.5	
3650	1		1			3	62	60	19	10	7	3	4	1				171	1.4	
3651				1		2	77	175	43	10	5	6	3	1				823	7.7	
3653							31	97	26	16	7	2	3	3				185	2.1	
3654			4	2	1	6	129	276	108	44	23	23	10	3	2			631	9.7	
3655			7	1		7	185	234	99	47	27	26	14	8	2			687	9.3	
3656						1	54	73	24	10			2					145	0.9	
3657			2				20	43	21	6	7	2	2	2				105	1.1	
8184			3	1	3	4	111	227	99	42	13	8	5	3	1			520	5.3	
8219						1	2	24	18	8	2	1						56	0.6	
TOTAL		3	45	26	15	93	1939	3068	1278	537	244	265	168	65	10			7746	107.7	

TABLE IV (Concluded)

b. T-38 LTF

Mission 1 - Training

MISSION		Training																TIME	
A/C TAIL NO		SIZE																HOURS	
		LESS	-1.0	-1.0	-0.6	0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.0	7.8	TOTAL	TIME
881					6			1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.0	7.8	TOTAL	TIME	
897					44	1249	1941	854	400	194	237	153	89	32	5		5199	55.4	
945					4	99	201	76	48	23	29	4	11	1			496	7.9	
8120		1			5	102	151	106	75	35	34	13	24	2			550	8.8	
TOTAL		3		1	10	90	1605	2276	1497	865	375	392	233	175	48	1	7771	87.1	
		4		1	16	143	3255	4569	2535	1388	627	687	403	299	83	6	14016	159.4	

Mission 2 - Formation

LESS -1.8 -1.0 -0.6 -0.2

	C-2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TOTAL	TIME HOURS
HBI	54	129	38	16	6	3						248	4.3
TOTAL	56	129	38	16	6	3						248	4.3

Mission 3 - Nav & General

MISSION 4		MISSION 5 - Nav & General															TIME	
A/C TAIL NO																	HOURS	
881	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.2	7.0	TOTAL	TIME
897				3	21	54	1365	399	189	65	36	8	2	2			2654	62.4
945					1	15	54	7	2								79	8.2
915K					4	207	364	85	43	31	30						768	18.7
TOTAL				1	6	56	1208	1898	847	350	108	98	13	1			4644	98.1
				1	9	82	1994	3681	1338	584	264	164	23	2	3		8145	187.4

Mission 4 - Administrative

MISSION		ADMINISTRATIVE															TIME	
A/C TAIL NO		NZE															HOURS	
881	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TOTAL	
945		1	1	4	6	256	316	83	39	12	9	1	1	1			730	5.4
8158		1			1	46	73	38	22	7	6	2	1	2			199	3.6
TOTAL		2	2	4	11	53	71	30	5	1	5		2	3			1107	11.1

APPENDIX C
MISSION SEGMENT DATA

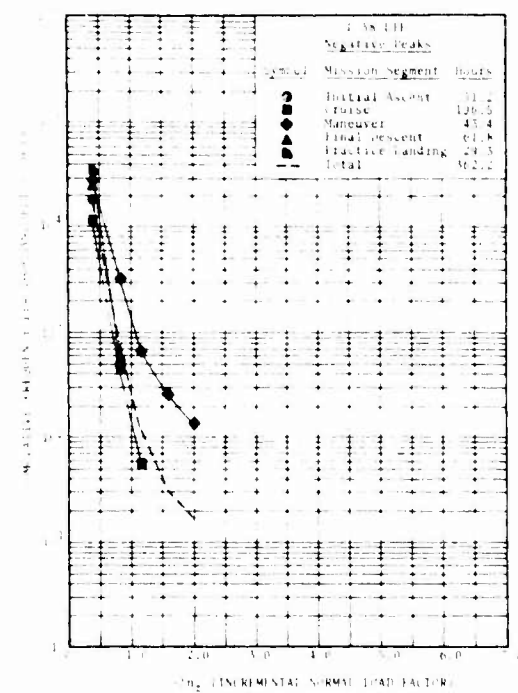
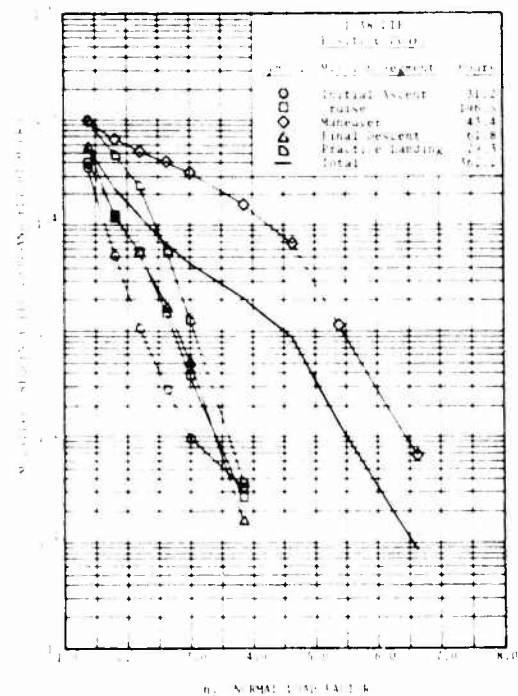
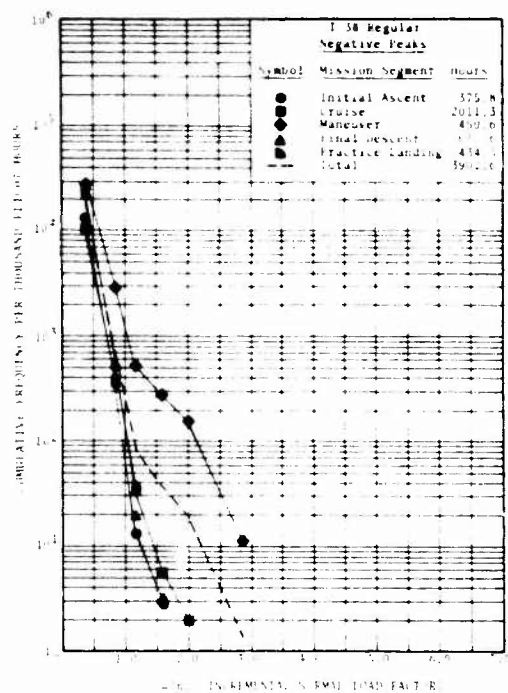
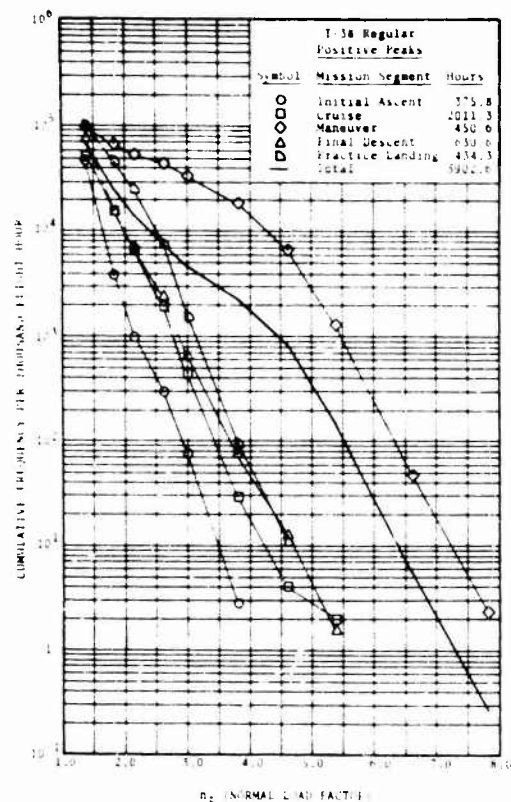


Figure 9. Exceedance Curves of Positive and Negative n_z Peaks for Each Mission Segment

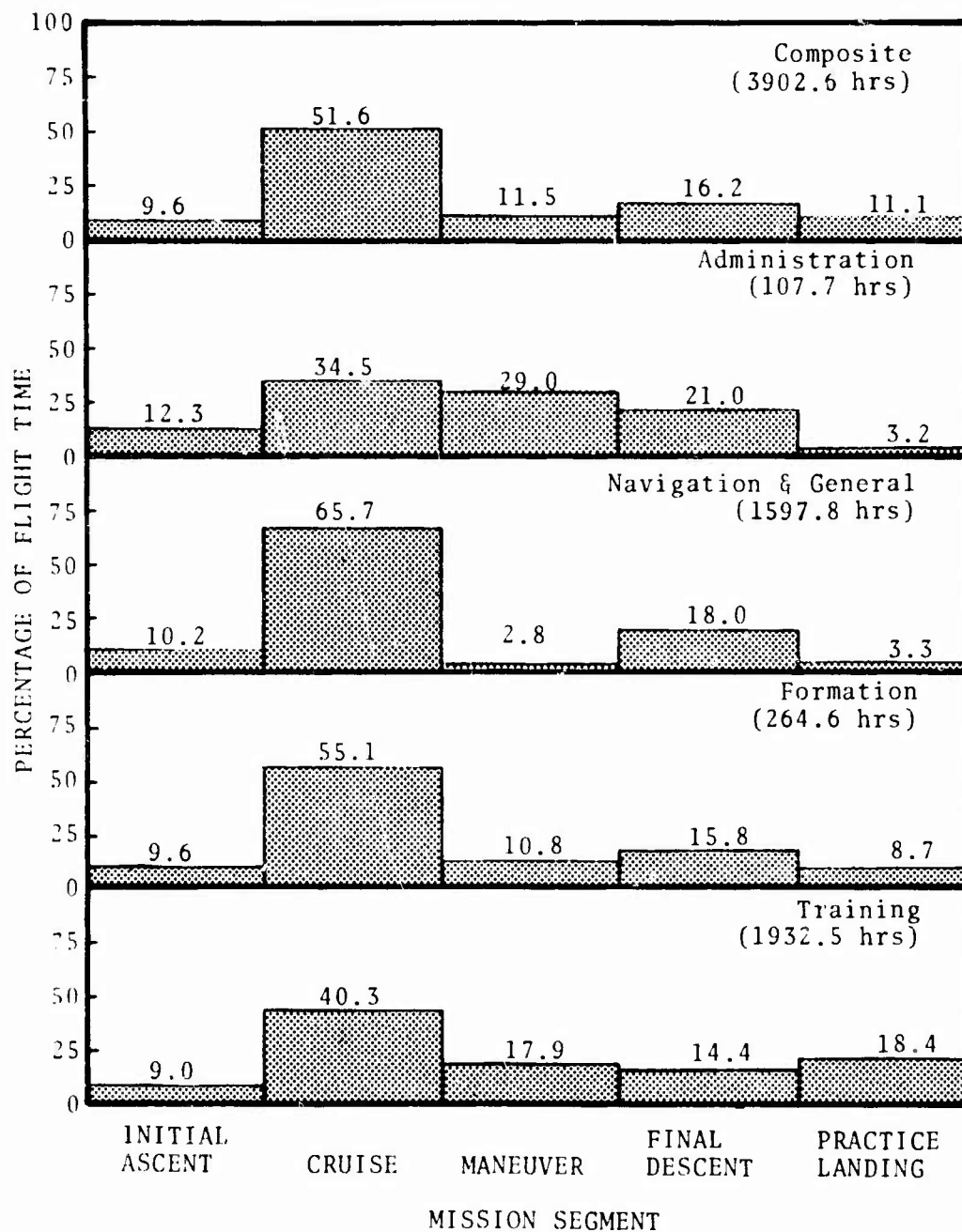
TABLE V Frequencies of n_z Peaks in n_z Intervals
versus Mission Segment

a. T-38 Regular

MISS. SEG.	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	n_z 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
INITIAL ASCENT			1	4	124	4803	16458	1086	256	80	27	1					375.8
CRUISE		4	7	53	688	20887	74697	17789	9860	3057	823	50	4	4			2011.3
MANEUVER	5	64	56	104	1090	11178	14156	6910	4741	4121	6986	5297	2576	571	20	1	450.6
FINAL DESCENT			2	10	313	16439	39808	5332	2815	1150	353	39	7	1			630.6
PRACTICE LOG				16	215	9399	25884	9387	7976	2613	674	35	5				434.3
TOTAL	5	68	66	187	2430	62706	170953	40504	25648	11021	8863	5422	2592	576	20	1	3907.6

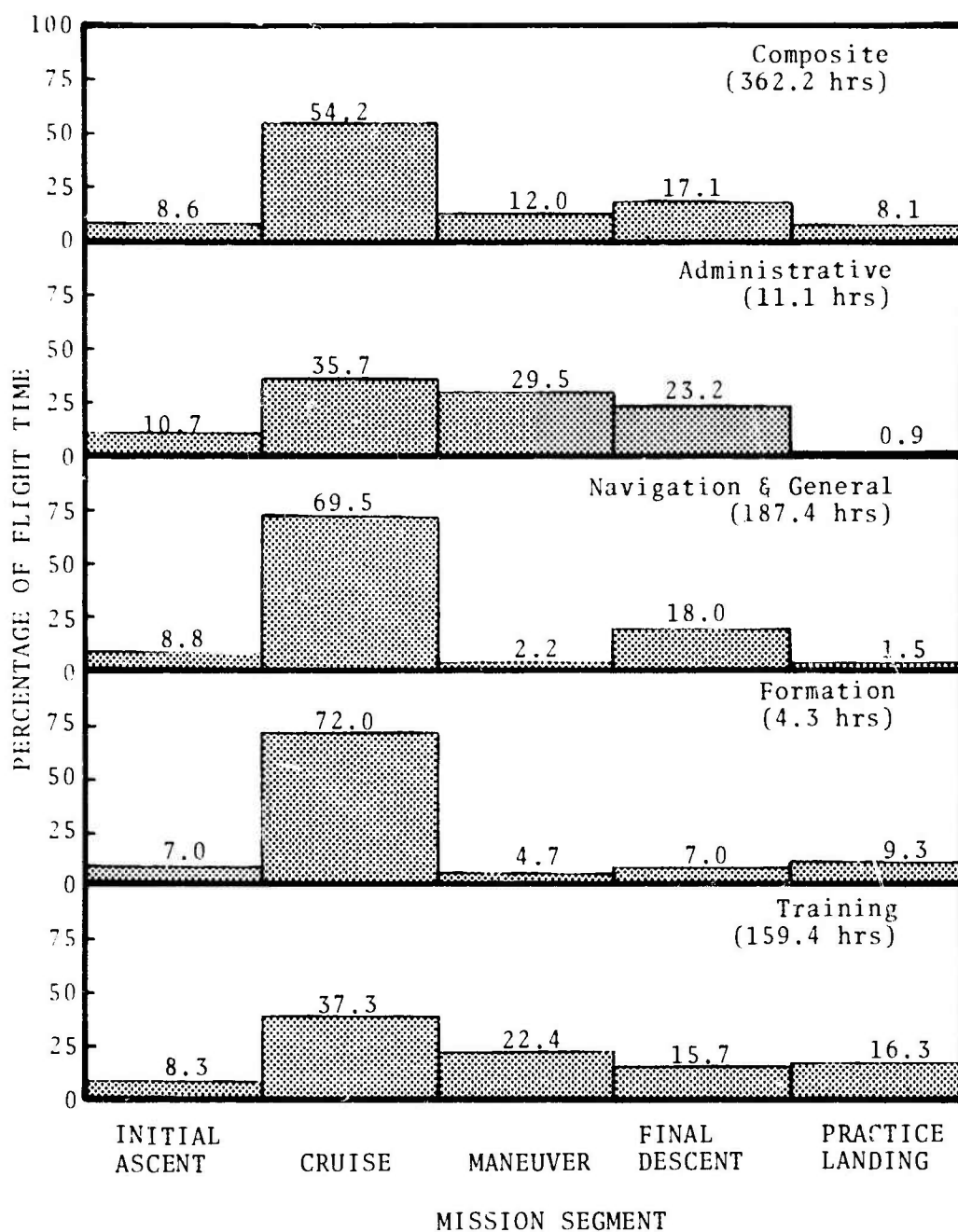
b. T-38 LTF

MISS. SEG.	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	n_z 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
INITIAL ASCENT				16	540	912	124	23	6	2	1						31.2
CRUISE				11	76	2238	5240	1343	407	222	70	5					186.5
MANEUVER		6	5	18	106	1107	1400	709	437	408	651	409	254	45	3		43.4
FINAL DESCENT				31	1485	2752	444	239	67	30	1						61.8
PRACTICE LOG				17	1000	1406	729	528	127	36	1						29.3
TOTAL		6	5	29	246	6370	11710	3349	2034	830	791	417	254	45	3		362.2



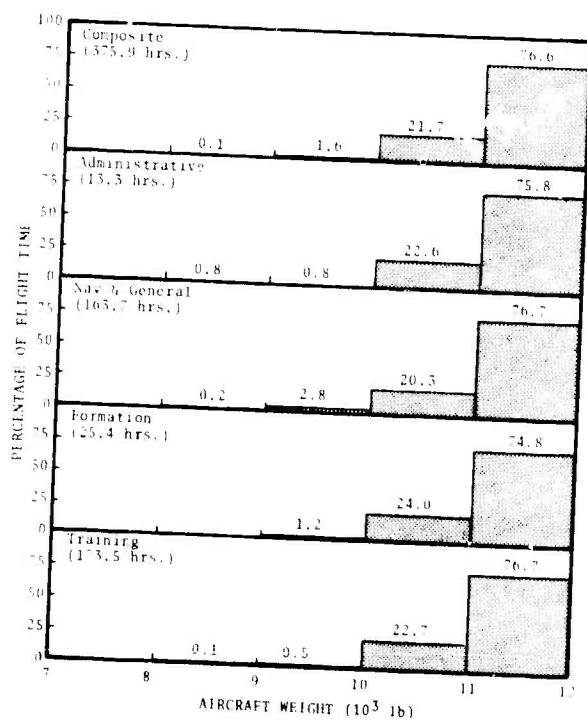
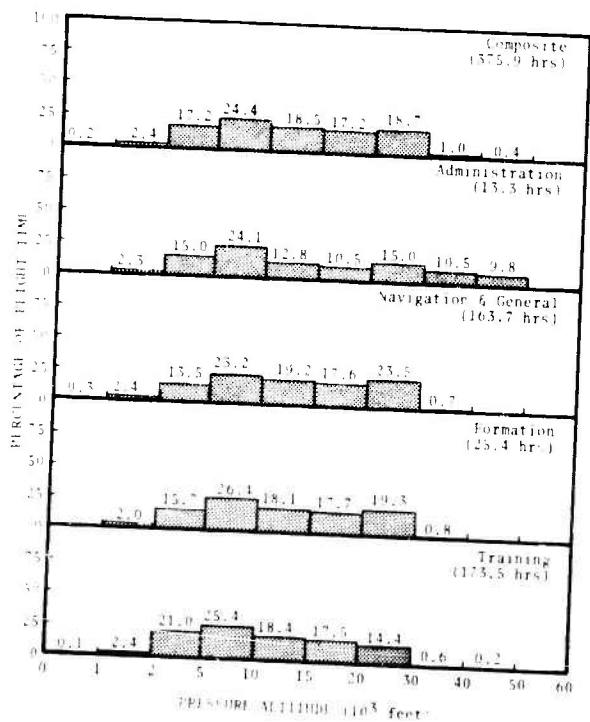
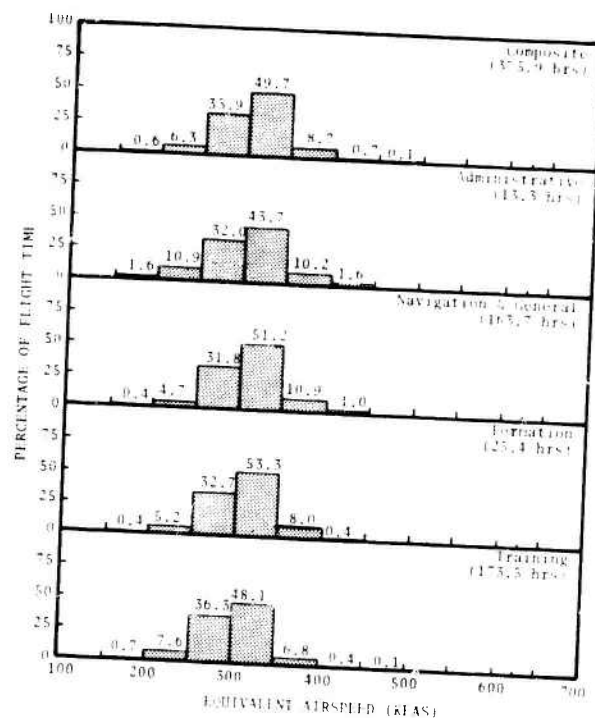
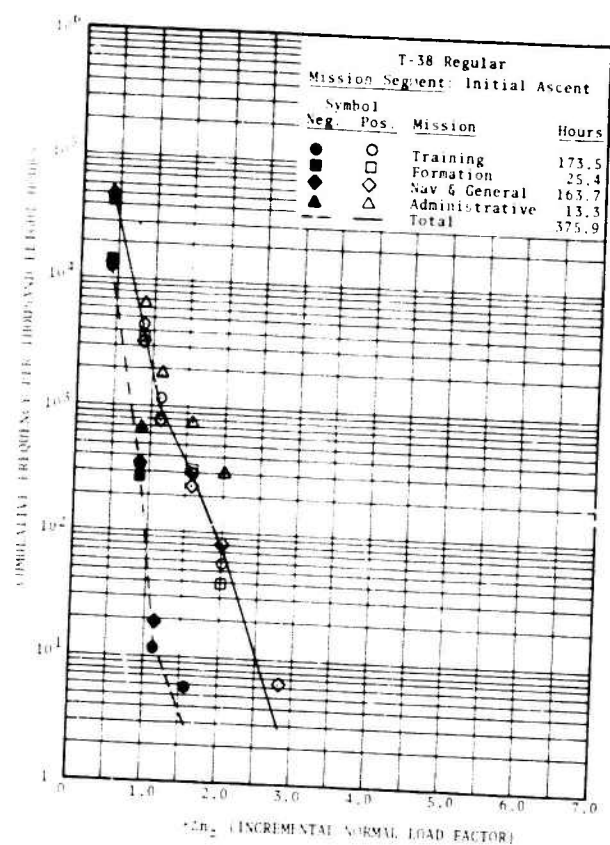
a. T-38 Regular

Figure 10. Percentage of Total Time Spent in Each Mission Type in Each Mission Segment



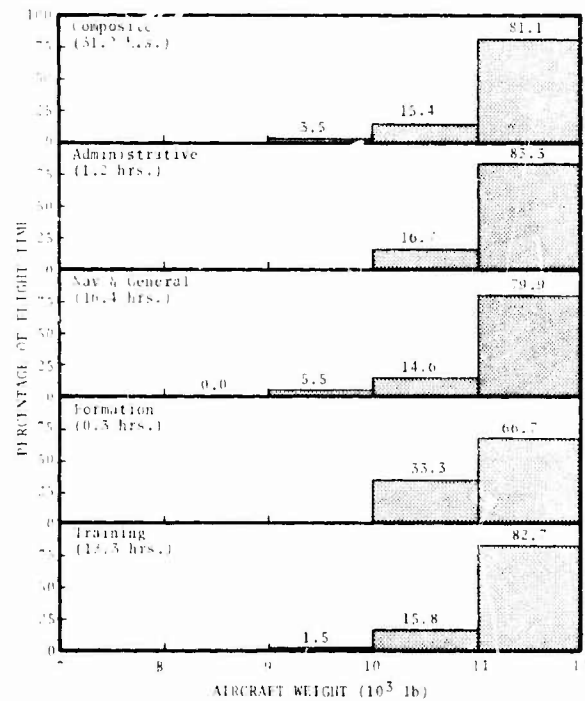
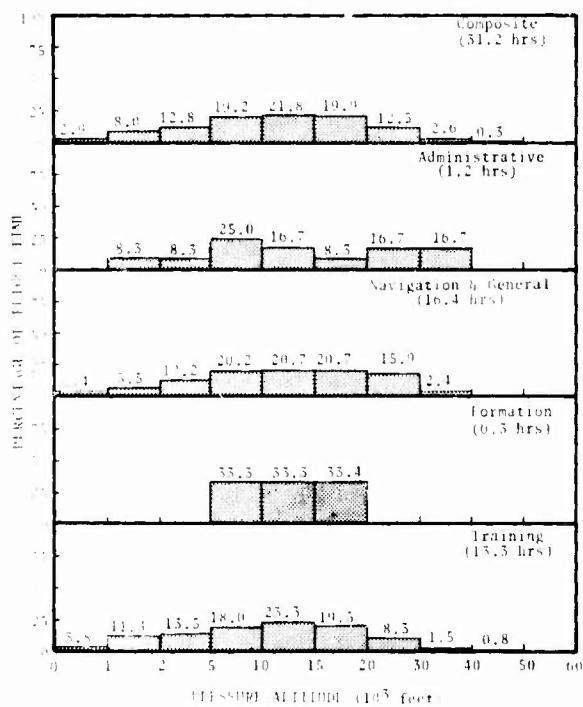
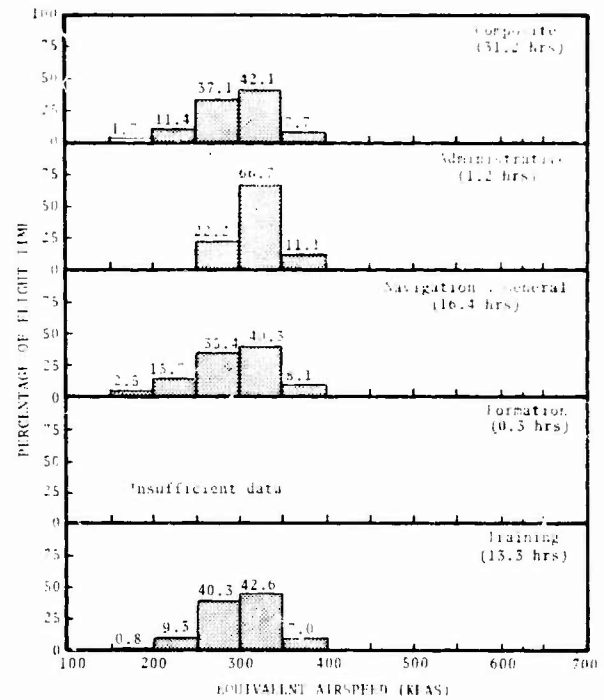
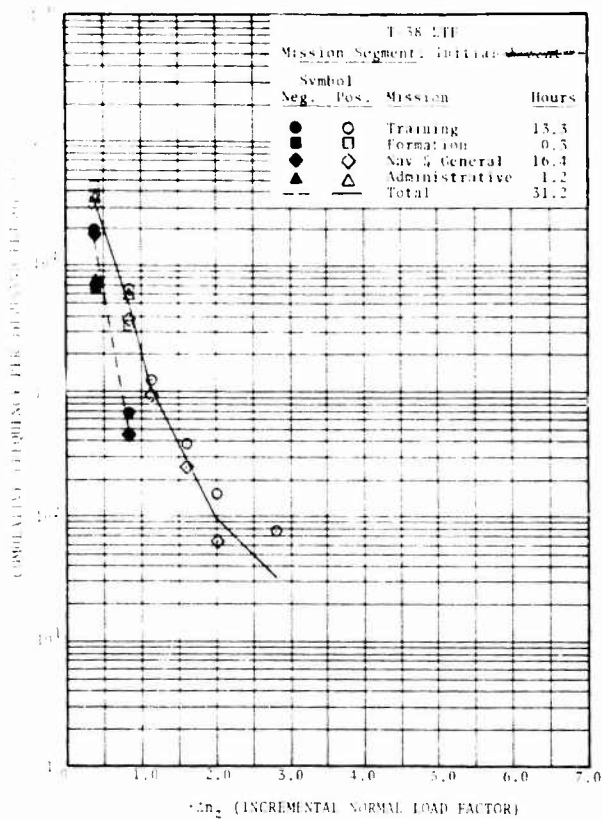
b. T-38 LTF

Figure 10. (Concluded)



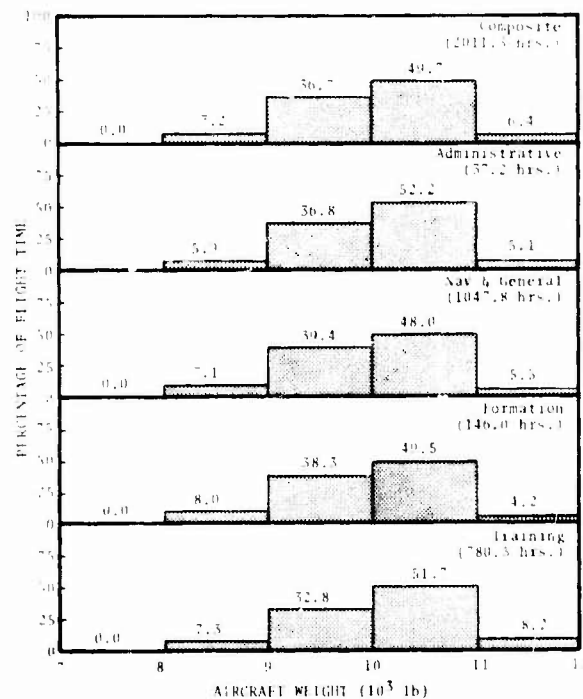
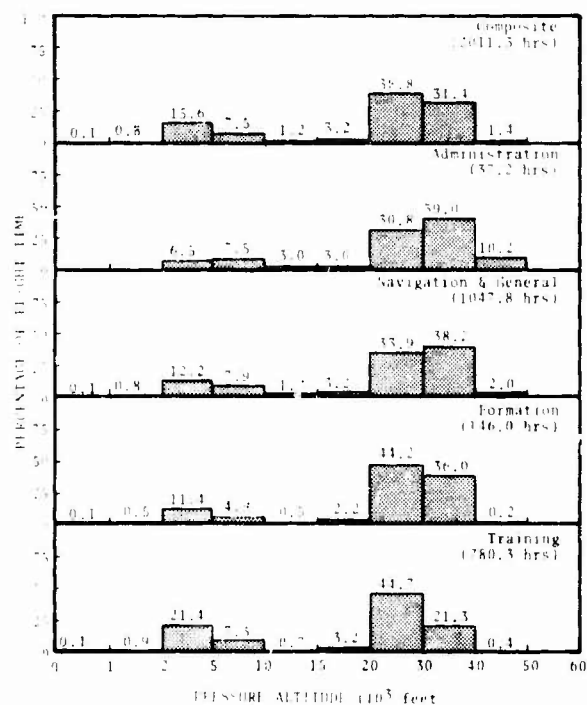
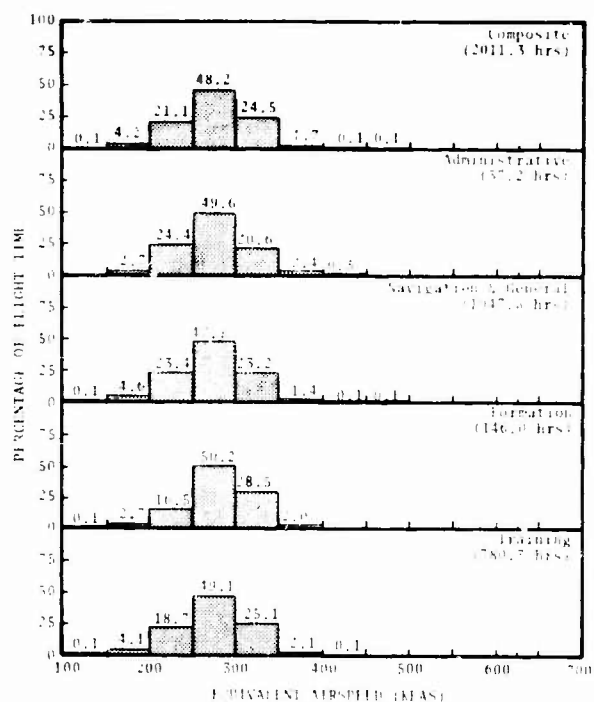
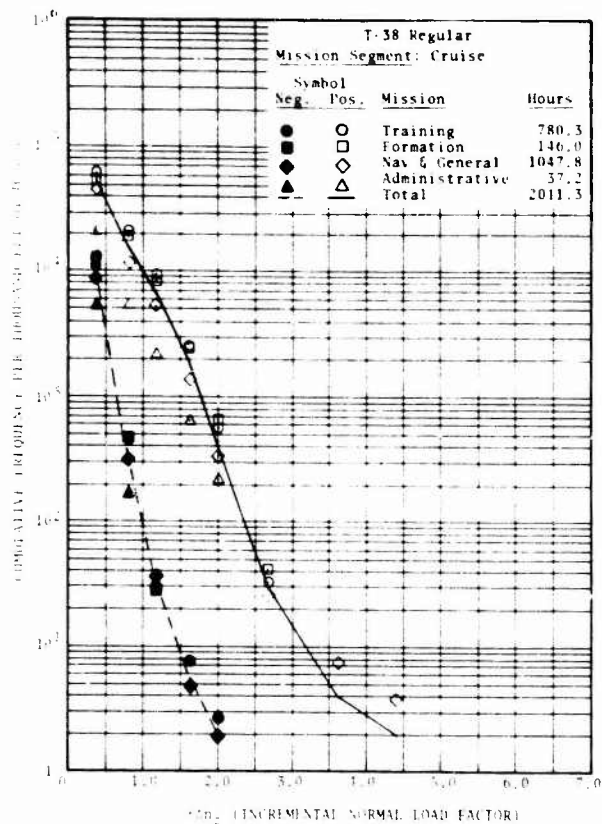
a. T-38 Regular

Figure 11. Initial Ascent Mission Segment: n_z Exceedance Curves and Time Histograms of Equivalent Airspeed, Altitude, and Weight by Mission Type



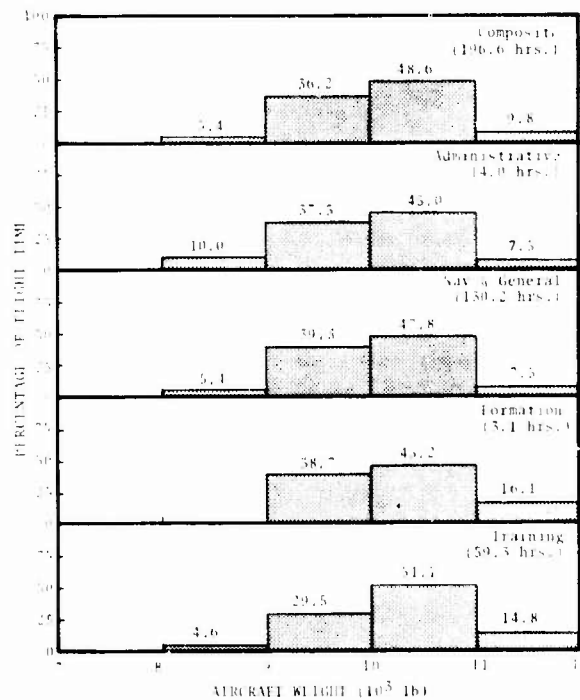
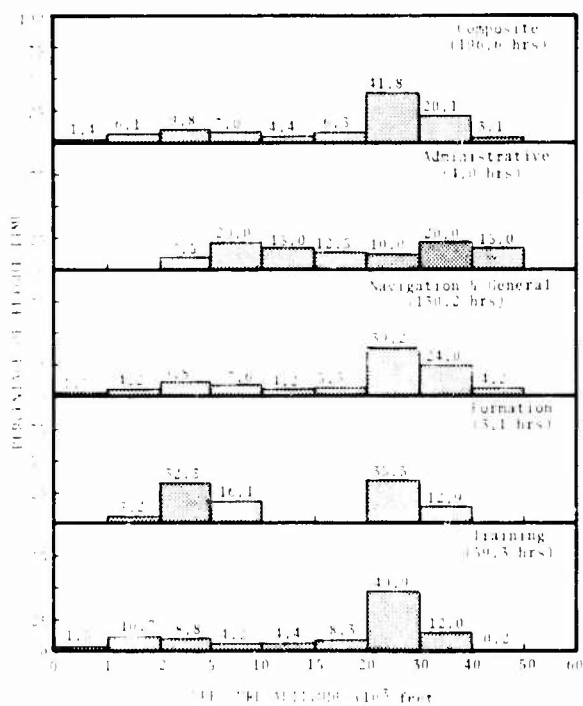
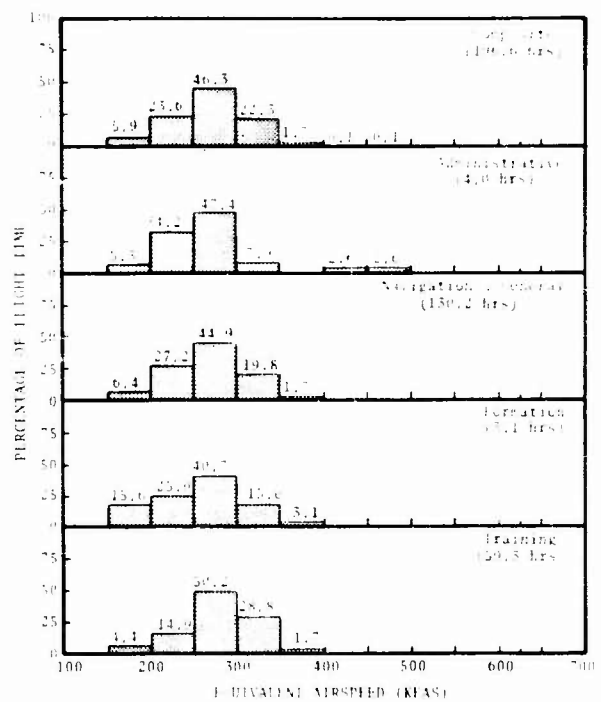
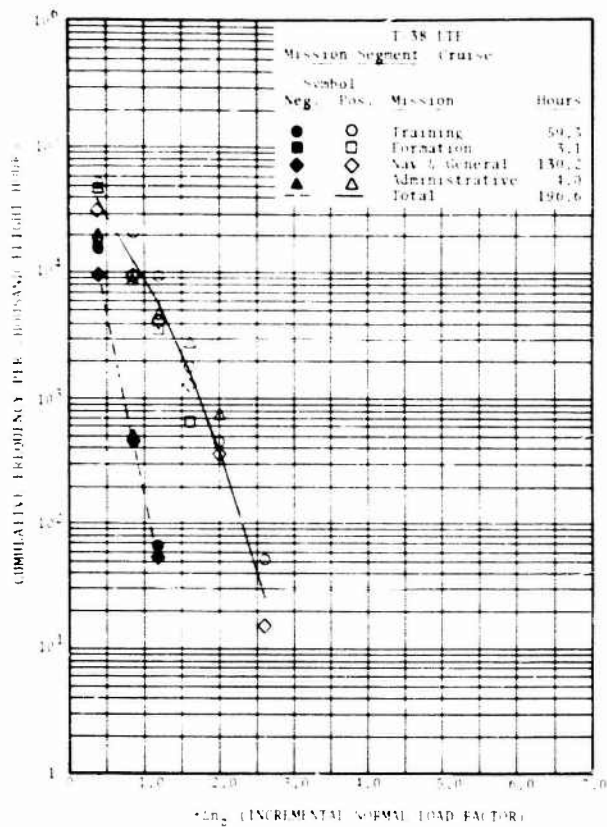
b. T-38 LTF

Figure 11. (Concluded)



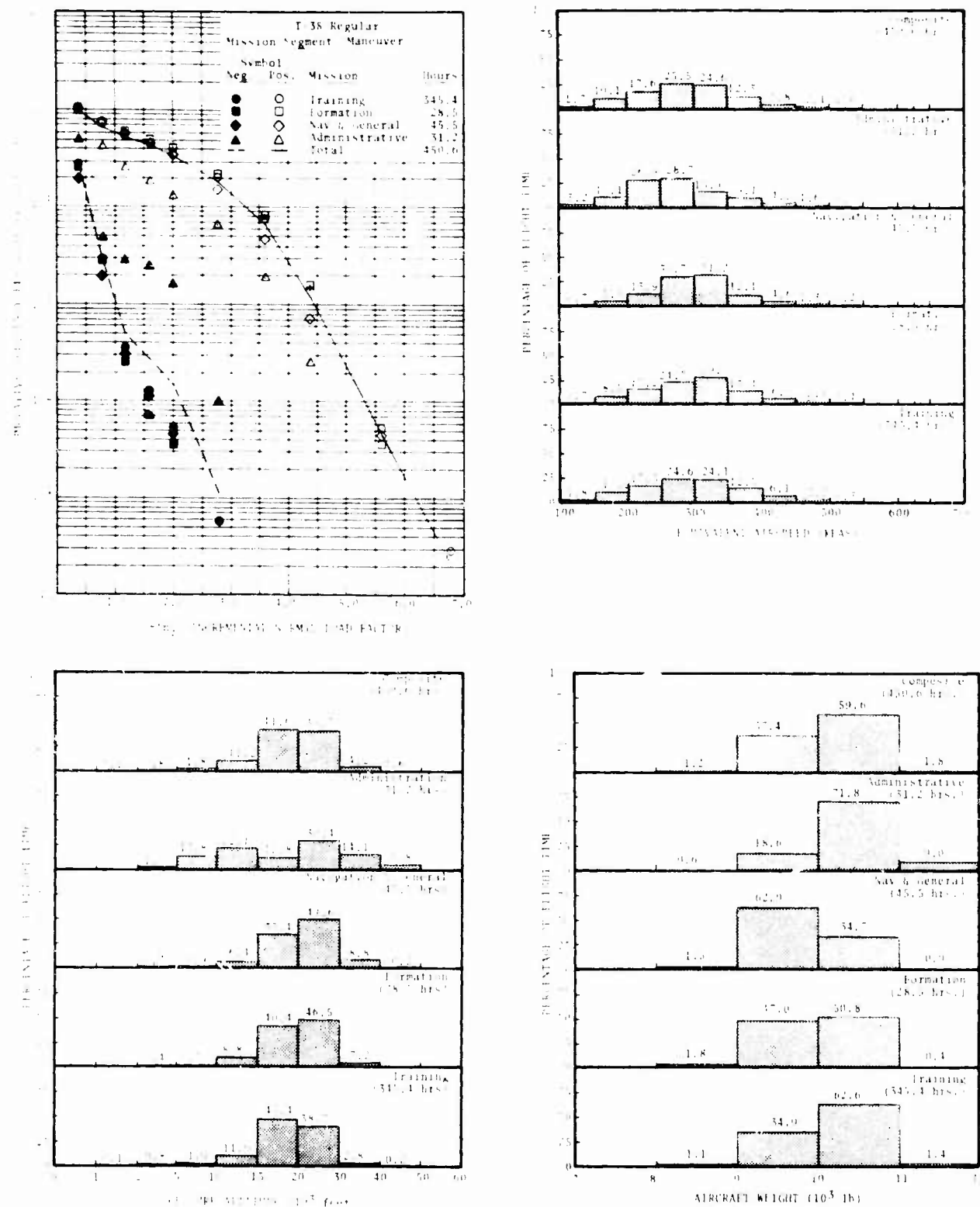
a. T-38 Regular

Figure 12. Cruise Mission Segment: n_z Exceedance Curves and Time Histograms of Equivalent Airspeed, Altitude, and Weight by Mission Type



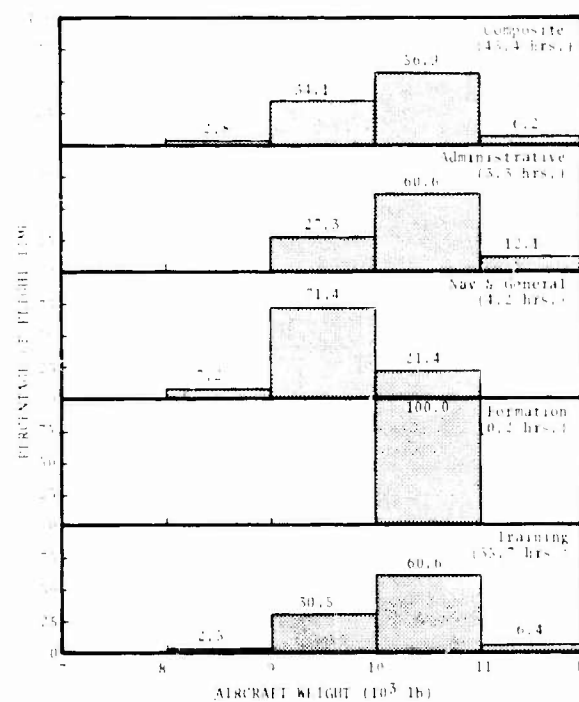
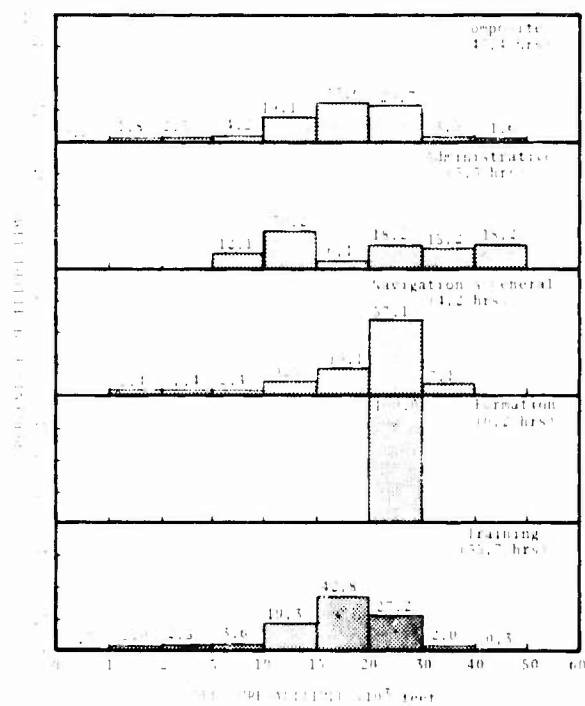
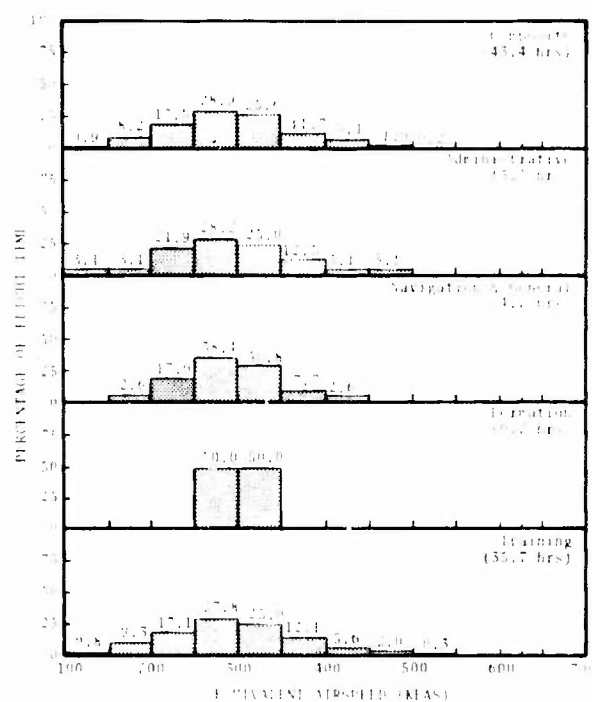
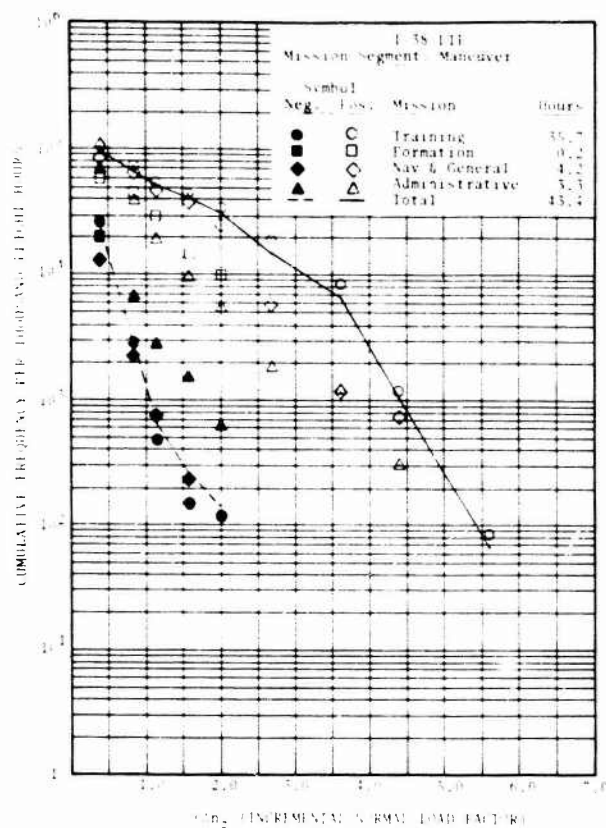
b. T-38 LTF

Figure 12. (Concluded)



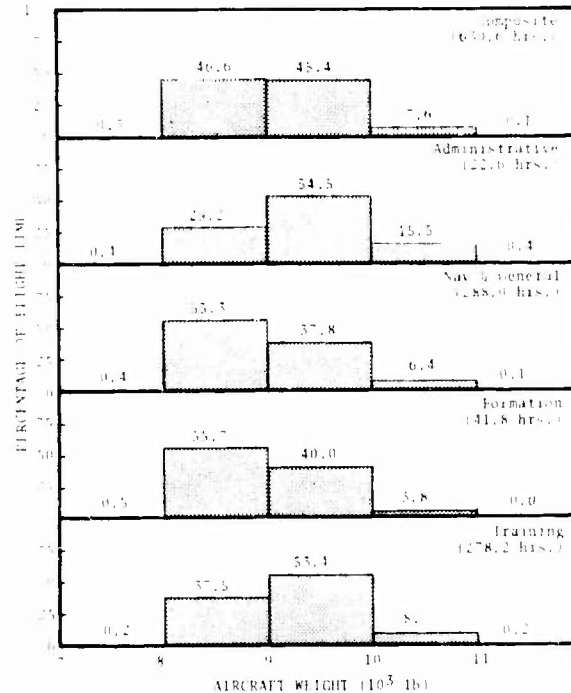
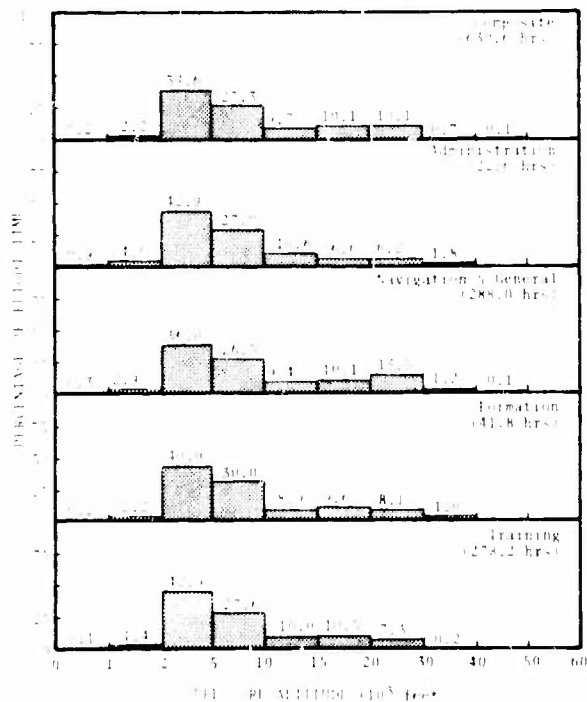
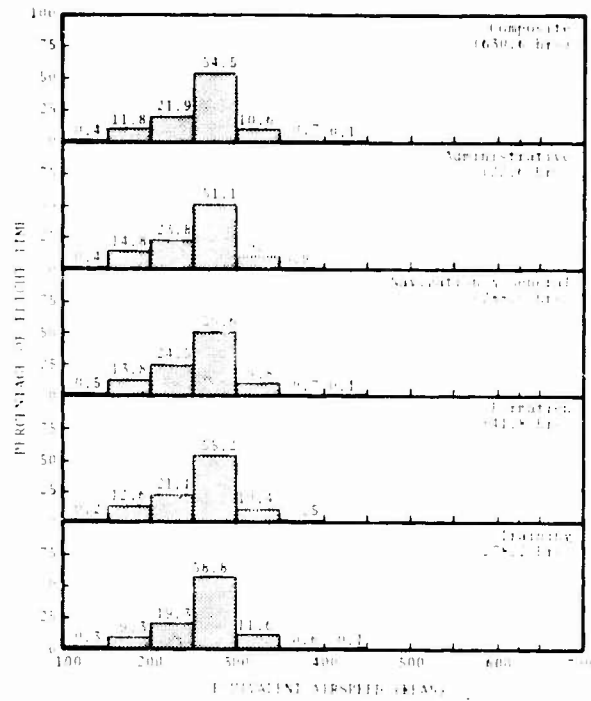
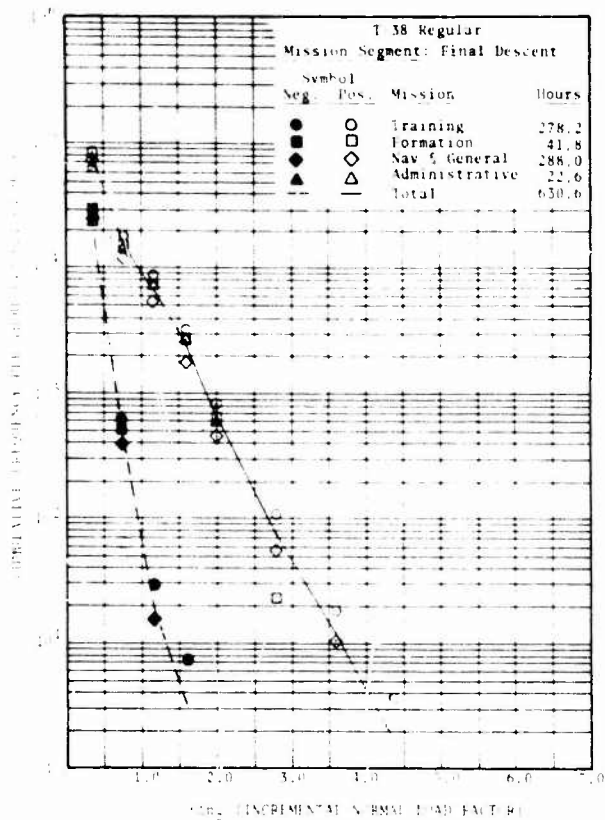
a. T-38 Regular

Figure 13. Maneuver Mission Segment: n_2 Exceedance Curves and Time Histograms of Equivalent Airspeed, Altitude, and Weight by Mission Type



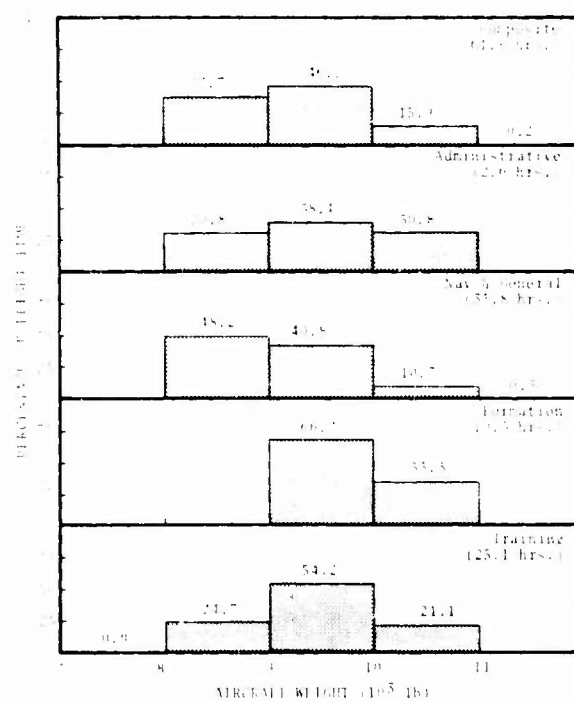
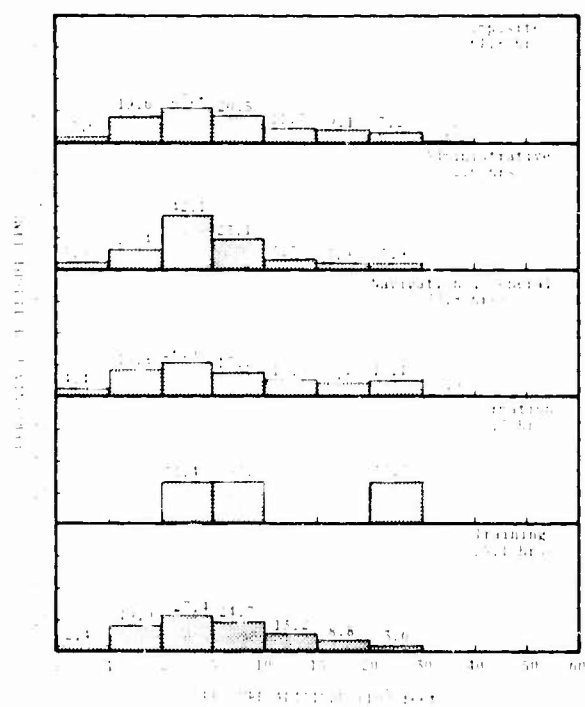
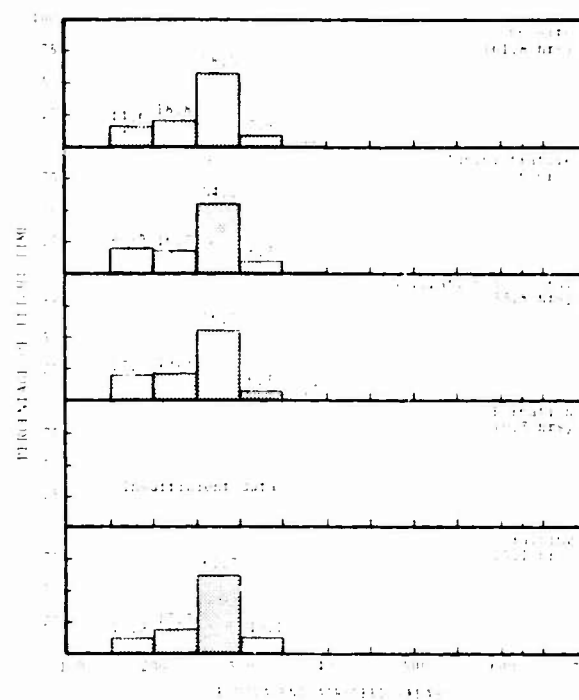
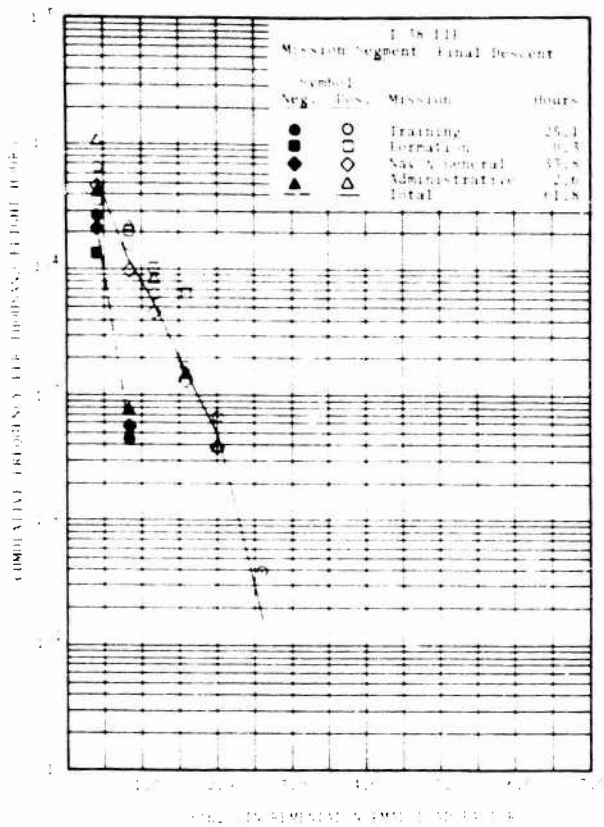
b. T-38 LTF

Figure 13. (Concluded)



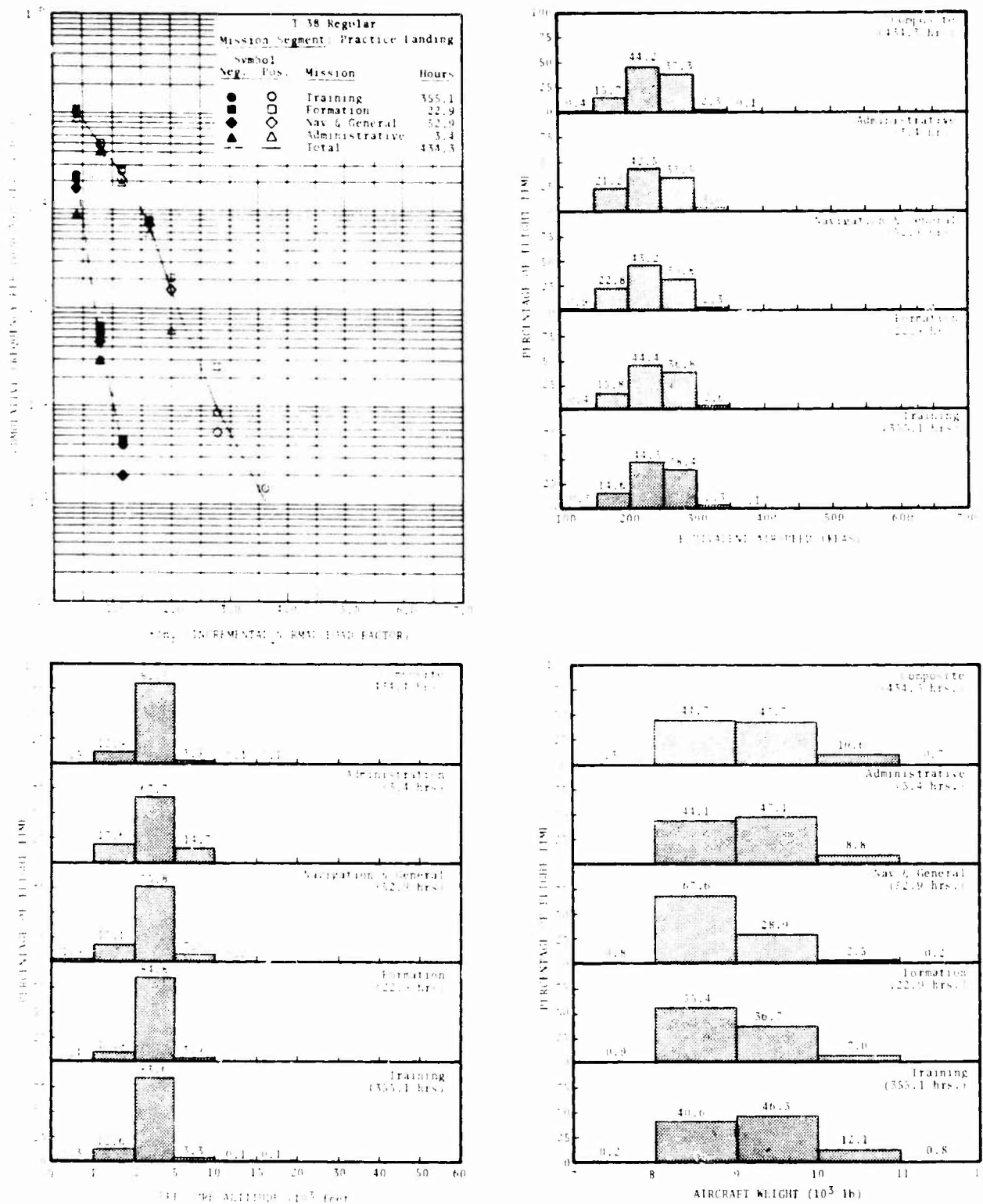
a. T-38 Regular

Figure 14. Final Descent Mission Segment: n_z Exceedance Curves and Time Histograms of Equivalent Airspeed, Altitude, and Weight by Mission Type



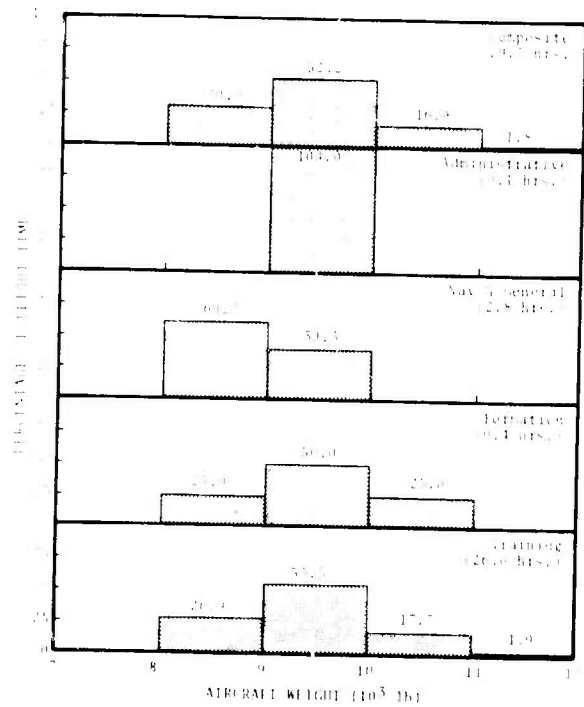
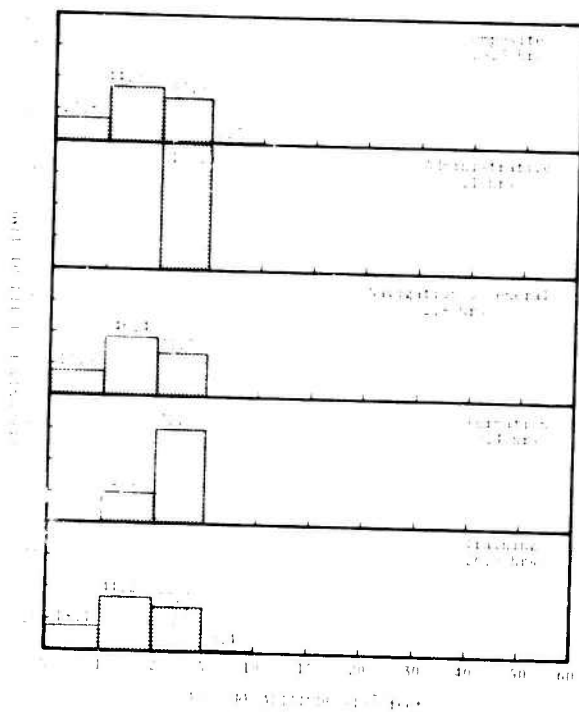
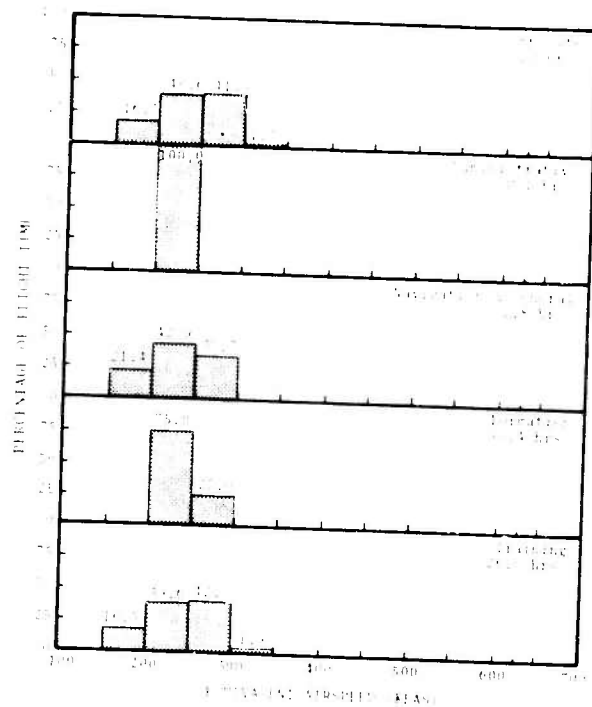
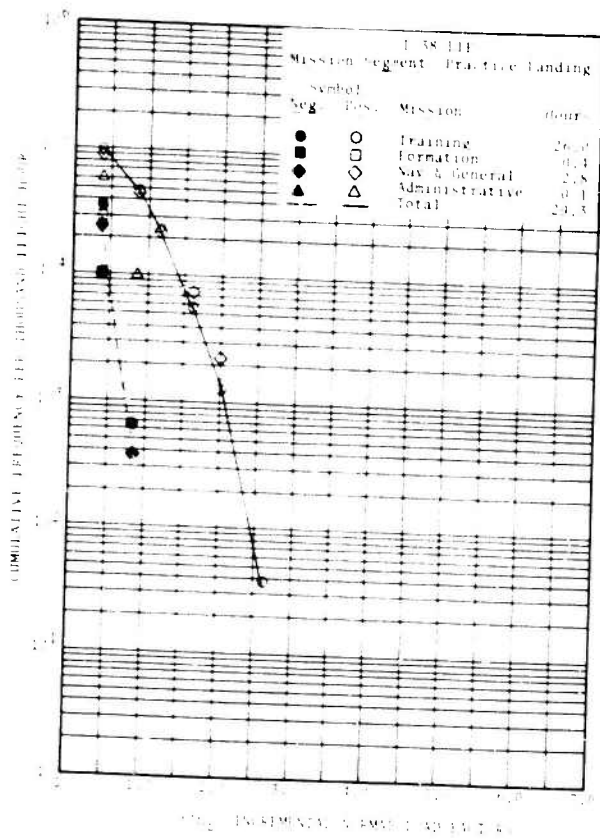
b. T-38 LTF

Figure 14. (Concluded)



a. T-38 Regular

Figure 15. Practice Landing Mission Segment: n_z Exceedance Curves and Time Histograms of Equivalent Airspeed, Altitude, and Weight by Mission Type



b. T-38 LTF

Figure 15. (Concluded)

TABLE VI Frequencies of n_z Peaks in n_{ze} Intervals versus Mission Segment for Each Mission Type

a. T-38 Regular

Mission 1 - Training

MISSION																	TIME
MISS. SEG.	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
INITIAL ASCENT			1	1	51	1151	3630	3644	421	121	51	3					173.5
CRUISE		2	4	17	326	8973	25369	11374	5651	2111	722	37					780.3
MANEUVER	2	16	26	75	837	7074	8363	5672	3844	3269	5590	4296	2521	860	33	1	345.4
FINAL DESCENT				1	7	179	7753	13017	2598	1292	376	128	19	4	1		278.2
PRACTICE LDG					13	191	7889	16859	8400	5271	1447	325	19	1			355.1
TOTAL	2	18	32	113	1564	32840	67258	31688	16479	7324	6816	4374	2526	861	33	1	1932.5

Mission 2 - Formation

MISSION		2															TIME	
MISS. SEC.		HZE															HOURS	
INITIAL ASCENT	LFSS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
					7	202	550	508	55	6	7	1					25.4	
CRUISE				4	64	1489	4149	2005	922	335	127	8					146.0	
MANEUVER	1	1		5	73	530	677	440	284	298	520	199	206	70	1		28.5	
FINAL DESCENT					22	1253	1563	286	149	38	11						41.8	
PRACTICE LDG					1	14	472	1122	551	317	64	24	2				22.9	
TOTAL	1	1	10	180	3946	8061	3790	1727	741	689	410	206	70	1			264.6	

Mission 3 - Nav & General

MISSION		3																
MISS. SEG.	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
INITIAL ASCENT				3	49	1241	3991	3775	291	69	29	6	1				163.7	
CRUISE	2	3	32	279	7811	28766	9683	4178	1662	528	26	3	6				1047.8	
MANEUVER	2	3	9	76	693	1235	789	585	540	929	478	198	38	3			45.5	
FINAL DESCENT				4	117	6795	9551	1538	659	159	51	6	1				288.0	
PRACTICE LDG				1	23	830	2189	910	534	127	20						52.9	
TOTAL	4	6	49	544	17370	45762	16695	6747	2557	1557	516	203	44	3			1597.8	

Mission 4 - Administrative

MISSION																	TIME			
4																	HOURS			
MISS. SEG.		LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	NZE			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
INITIAL ASCENT						9	119	319	278	51	11	6	3							13.3
CRUISE						6	163	463	142	60	25	6	2							37.2
MANEUVER	4	47	23	15	63	1105	1221	682	312	178	239	158		75	16					31.2
FINAL DESCENT					14	501	875	178	89	35	13	1								22.6
PRACTICE LDG					1	29	96	72	31	9	2									3.4
TOTAL	4	47	23	15	63	1917	2974	1352	543	258	266	164	75	16						107.7

TABLE VI - (CONCLUDED)

b. T-38 LTF

Mission 1 - Training

MISSION 1																	TIME	
MISS. SEG.	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
INITIAL ASCENT					9	149	216	222	93	10	3	1						13.3
CRUISE				4	23	830	1492	784	470	154	39	5						59.3
MANEUVER		4	1	12	84	733	853	608	365	329	592	398	296	85	6			35.7
FINAL DESCENT					11	660	988	226	92	27	10	1						25.1
PRACTICE LDG					16	891	1010	684	419	84	34	1						26.0
TOTAL		4	1	16	143	3263	4568	2524	1399	604	678	406	297	85	6			159.4

Mission 2 - Formation

MISSION		2																		
MISS. SEG.																				
	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE				2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
INITIAL ASCENT						2	8			4	1									0.3
CRUISE						43	108			25	12	2								3.1
MANEUVER						4	2			4	2	1	3							0.2
FINAL DESCENT						4	5			3	1	2								0.3
PRACTICE LOG						4	10													0.4
TOTAL						57	133			36	16	5	3							4.3

Mission 3 - Nav & General

MISSION 3																TIME HOURS	
MISS. SEG.	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
INITIAL ASCENT					7	188	270	189	32	6	4						16.4
CRUISE				7	50	1008	2428	867	391	182	71	2					130.2
MANEUVER			1	2	6	47	76	58	58	48	77	20	2	3			4.2
FINAL DESCENT					18	688	799	160	70	17	11						33.8
PRACTICE LDG					1	67	85	66	28	8							2.8
TOTAL			1	9	82	1998	3658	1340	579	261	163	22	2	3			187.4

Mission 4 - Administrative

MISSION 4																	TIME
MISS. SEG.	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
INITIAL ASCENT						8	23	14	6								1.2
CRUISE					2	75	108	17	6	3	4						4.0
MANEUVER		2	3	4	14	166	191	90	37	14	15	3	2	3			3.3
FINAL DESCENT					2	106	135	25	17	4							2.6
PRACTICE LDG						1	5	1									0.1
TOTAL		2	3	4	18	356	462	147	64	21	19	3	2	3			11.1

APPENDIX D
ADDITIONAL DATA TABULATIONS

TABLE VII. Frequencies of n_z Peaks in n_z versus Gross Weight Intervals by Mission Segment for Each Mission Type

a. T-38 Regular

Mission 1 - Training

MISS. SFG. INITIAL ASCENT																	TIME			
WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	N _Z				2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
8000						2	3			2										0.1
9000					2	21	56			5										0.9
10000				1	10	199	855			108	55	11	6							39.5
11000			1		41	1865	6220			455	106	50	4							155.2
TOTAL			1	1	52	2087	7134			548	142	41	10							175.5

M155. SFG. CRUISE																		
WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
7000							5	4			1							0.1
8000						56	1604	4590	922	647	262	53	5					56.9
9000			1	4	152	4141	12418	2888	1705	556	175	16						256.1
10000		1	5	12	141	5795	15889	4785	2660	676	157	4						405.2
11000		1		1	25	657	1809	579	178	57	22							64.0
TOTAL		2	4	17	534	10197	52711	8976	5190	1552	407	25						780.5

MISS. SFG. MANEUVER																	TIME
WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	n_z 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
8000					18	92	127	41	52	35	50	46	28	5	1		3.8
9000		5	8	59	521	2638	3757	1586	1175	1251	2551	1859	945	257	9	1	120.7
10000		7	14	52	530	5543	6388	5557	2594	1877	2912	2520	1172	225	7		216.2
11000		2	4	4	8	85	116	78	40	40	58	47	12	5			4.7
TOTAL		2	16	26	75	877	8556	10568	5242	5641	5185	5351	4274	2157	486	17	545.4

MISS. SFG. FINAL DESCENT																	TIME
WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	n_z 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
7000						11	28	8	5								0.5
8000			2	2	84	4085	9219	1281	707	544	91	7					104.4
9000				4	75	5485	8810	1596	778	274	100	14	4	1			148.4
10000					11	241	764	160	71	15	10	4					24.5
11000						5	55										0.6
TOTAL			2	6	168	7825	18854	2845	1564	656	201	25	4	1			278.2

MISS. SFG. PRACTICE LOG																	TIME
WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	N2										HOURS
							1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
7000						5	56	21	15	2	5						0.7
8000				8	89	5878	9559	5261	2957	1147	519	15	4				144.5
9000				6	79	5565	9598	3700	3112	914	200	10	1				164.5
10000					10	588	1685	949	592	105	25	1					42.8
11000						21	92	42	21								2.8
TOTAL				14	178	8057	20968	7975	6697	2166	547	26	5				355.1

TABLE VII (Continued)

Mission 2 - Formation

MISS. SEG. INITIAL ASCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
9000						1	14	6	3								0.3
10000					1	46	115	11	3								6.1
11000					6	312	908	53	6	7	1						18.9
TOTAL					7	359	1037	70	12	7	1						25.4

MISS. SEG. CRUISE

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
7000						1	3		3								0.0
8000					7	268	841	137	76	29	15						11.7
9000				1	38	713	1971	448	342	103	41	3					59.9
10000				2	16	622	2400	858	385	121	31	3					72.2
11000				1	3	67	173	26	11	5	1						6.2
TOTAL				4	64	1671	5388	1669	820	298	88	6					146.0

MISS. SEG. MANEUVER

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000						5	15	12	7	10	10	4					7.5
9000				4	31	244	367	187	109	157	305	225	98	22	1		13.4
10000		1	1	1	42	360	594	224	160	125	191	179	82	23			14.4
11000					1	4	7	1	2	1	1						0.1
TOTAL		1	1	5	74	613	780	424	278	292	507	409	180	47	1		28.5

MISS. SEG. FINAL DESCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
7000						2	12	1	1	1	1						0.2
8000					17	959	2013	232	120	64	17	1					23.4
9000					4	282	750	120	71	20	7						16.7
10000						14	49	3		1	1						1.6
11000																	3.0
TOTAL					21	1297	2824	356	192	86	26	1					41.8

MISS. SEG. PRACTICE LOG

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
7000						5	10	8	5	3							0.2
8000					9	277	919	266	264	99	29	4					12.6
9000				1	7	170	536	192	163	29	2	2					8.4
10000					2	26	75	42	21	5	3						1.6
11000																	0.0
TOTAL				1	14	474	1540	508	493	136	41	6					22.9

TABLE VII (Continued)

Mission 3 - Nav & General

MISS. SEG. INITIAL ASCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000																		
9000																		0.3
10000						1	63	255	36	14	4	4						4.6
11000						1	4	228	664	61	13	2	1					33.3
TOTAL						2	50	1874	6724	306	61	20	7	1				125.6
						3	55	2170	7656	404	89	26	12	1				163.7

MISS. SEG. CRUISE

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
7000																		
8000																		0.3
9000						1	37	1130	3751	410	106	33	2					74.2
10000						18	127	3846	15173	2953	573	165	11	1				412.6
11000						10	107	3469	15613	3563	1986	535	121	6	3	4		503.2
TOTAL						2	3	32	284	5835	36029	7027	3795	1231	320	19	4	1047.8

MISS. SEG. MANEUVER

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000																		
9000																		0.7
10000						2	6	53	435	770	426	319	346	716	361	136	21	28.6
11000						1	2	22	321	633	302	248	136	195	104	49	9	15.8
TOTAL						2	3	9	76	775	1421	735	575	492	923	469	186	45.5

MISS. SEG. FINAL DESCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
7000																		
8000																		1.1
9000						2	68	5022	11984	1420	692	301	88	10	2			159.4
10000						2	41	1644	4470	468	229	66	22	3	1			108.8
11000						1	129	433	61	30	7	2						18.4
TOTAL						4	110	6835	16967	1967	961	379	112	13	3			288.0

MISS. SEG. PRACTICE LOG

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
7000																		
8000																		0.4
9000						1	14	633	2282	581	560	241	75	3				35.8
10000						1	7	179	861	221	191	47	8					15.3
11000						1	1	9	91	18	20							1.3
TOTAL						1	22	835	3220	839	779	293	84	3				52.9

TABLE VII (Continued)

Mission 4 - Administrative

MISS. SEG. INITIAL ASCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000																		0.1
9000							4											0.1
10000						5	98	97	13	9	2	1						3.0
11000						9	129	480	51	10	4	9						10.2
TOTAL						9	187	581	64	13	6	4						13.3

MISS. SEG. CRUISE

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000						1	25	67	14	4	1	3						2.2
9000							70	261	34	16	1	1						13.7
10000						5	81	223	69	32	14	2						19.3
11000							8	18	1	3		2						1.9
TOTAL						6	184	569	117	55	16	8						37.2

MISS. SEG. MANEUVER

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000						3	24	2		1								0.2
9000			1		2	18	140	257	97	44	36	55	48	18	2			5.8
10000	2	34	21	7	41	1193	1160	333	179	98	124	91	33	6				22.4
11000	1	10	5	6	4	98	146	77	23	20	26	6	2					2.8
TOTAL	3	45	26	15	63	1434	1587	509	247	154	205	145	53	8				31.2

MISS. SEG. FINAL DESCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
7000							3											0.1
8000						2	116	379	46	29	17	4						6.6
9000						10	331	581	97	58	23	9						12.4
10000						2	75	220	20	11	9	4						3.5
11000								1				1						0.1
TOTAL						14	527	1163	164	98	49	14						22.6

MISS. SEG. PRACTICE LOG

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000						15	118	27	29	8								1.5
9000						1	14	31	31	16	10	2						1.5
10000							6	8	2									0.3
11000							1	1										0.0
TOTAL						1	29	156	67	47	18	2						3.4

TABLE VII (Continued)

b. T-38 LTF

Mission 1 - Training

MISS. SEG. INITIAL ASCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.4	4.6	5.4	6.6	7.8	TIME HOURS
8000						3	10											0.2
10000					2	22	49	19	2									2.1
11000					7	225	337	58	10	3	1	1						11.0
TOTAL					9	230	416	79	12	3	1	1						15.3

MISS. SEG. CRUISE

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.4	4.6	5.4	6.6	7.8	TIME HOURS
8000					3	143	253	40	30	11	3							2.7
9000				4	8	416	735	244	156	23	11	1						17.5
10000					10	291	813	302	203	44	9	2						50.3
11000					2	83	140	80	39	4	1							8.8
TOTAL				4	25	937	1941	666	428	82	24	5						39.3

MISS. SEG. MANEUVER

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.4	4.6	5.4	6.6	7.8	TIME HOURS
8000		1			2	43	70	12	14	4	7	8	5					0.9
9000		1		5	18	286	379	181	87	103	199	127	74	14				10.9
10000		2	1	6	39	484	604	530	252	202	318	230	160	26	3			21.6
11000				1	7	33	33	53	24	27	36	22	10	1				2.3
TOTAL		4	1	12	86	850	1086	378	357	356	360	587	249	41	3			33.7

MISS. SEG. FINAL DESCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.4	4.6	5.4	6.6	7.8	TIME HOURS
7000						1	3											0.0
8000					2	234	472	76	46	10	8							6.2
9000					6	373	643	113	41	13	5							15.6
10000					5	67	191	41	27	5	3	1						5.3
TOTAL					11	675	1311	250	114	28	16	1						25.1

MISS. SEG. PRACTICE LOG

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.4	4.6	5.4	6.6	7.8	TIME HOURS
8000					5	529	468	149	153	46	6							7.0
9000					7	453	609	370	292	53	20	1						13.9
10000					6	139	181	150	38	13	6							4.6
11000						3	18	10	3	1								0.3
TOTAL					16	928	1276	659	486	113	52	1						26.0

TABLE VII (Continued)

Mission 2 - Formation

MISS. SEG. INITIAL ASCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
10000						1	3	1										0.1
11000						1	9	1										0.2
TOTAL						2	12	1										0.3

MISS. SEG. CRUISE

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
9000						19	65	6		5	1							1.2
10000						28	45	9		4	1							1.4
11000						6	12	2										0.5
TOTAL						53	122	17		9	2							3.1

MISS. SEG. MANUEVER

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
10000						4	3	3		3	1	2						0.2
TOTAL						4	3	3		3	1	2						0.2

MISS. SEG. FINAL DESCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
9000						3	4	2		1	2							0.2
10000						1	1	1										0.1
TOTAL						4	5	3		1	2							0.3

MISS. SEG. PRACTICE LOG

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
9000						1	2											0.1
10000						3	6											0.3
11000							4											0.1
TOTAL						4	12											0.4

TABLE VII (Continued)

Mission 3 - Nav & General

MISS. SEG. INITIAL ASCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000							2											0.0
9000						47	74	8	2									0.9
10000					2	28	38	5	3			1						2.4
11000					5	204	354	30	6	3								13.1
TOTAL					7	279	446	43	11	3	1							16.4

MISS. SEG. CRUISE

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000																		7.0
9000					1	114	244	16	7	4	2							31.1
10000				4	22	467	1312	269	135	55	22	2						62.3
11000				2	23	480	1343	348	204	68	19							9.8
TOTAL				1	5	112	129	11	17	3								130.2

MISS. SEG. MANEUVER

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000																		0.3
9000			1	1	1	4	14	8	6	15	5	1						2.9
10000					3	37	54	33	24	35	54	15	2	3				0.9
11000				1	2	8	13	23	14	8	18	4						0.0
TOTAL			1	2	6	49	81	64	45	58	77	20	2	3				4.2

MISS. SEG. FINAL DESCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
7000																		0.0
8000						7	370	680	112	65	21	4						16.3
9000					6	284	470	46	31	8	8							13.8
10000					3	37	98	13	9	5	1							3.6
11000					2	7	7	1	1									0.1
TOTAL					18	698	1215	178	106	34	13							33.8

MISS. SEG. PRACTICE LOG

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000						1	50	91	39	27	12	6						1.7
9000						17	22	30	15	2								1.1
TOTAL					1	67	113	69	42	14	6							2.8

TABLE VII (Concluded)

Mission 4 - Administrative

MISS. SEG. INITIAL ASCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
10000																		0.2
11000							2											1.0
TOTAL						9	34	7										1.2
						9	36	7										

MISS. SEG. CRUISE

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000						27	60	9										0.4
9000					1	43	69	6		6	3	2	3.8	4.6	5.4	6.6	7.8	0.4
10000					1		15	1										1.3
11000						3	5			1	3							1.7
TOTAL					2	73	149	16		7	8	3						0.5
																		4.0

MISS. SEG. MANEUVER

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
9000						41	60	24		10	3							0.9
10000		1	3	4	12	143	131	33	18	7	3	1	1	1				2.0
11000		1			2	20	39	3	4	1	2	1	2					0.4
TOTAL		2	3	4	14	204	230	64	32	13	12	2	3	1				3.3

MISS. SEG. FINAL DESCENT

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
8000						67	132	13		3								0.8
9000					1	29	62	8		2	1	1						0.8
10000						12	27	12	11	1								1.0
TOTAL					2	108	221	33	18	3	3							0.8
																		2.6

MISS. SEG. PRACTICE LOG

WEIGHT	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
9000						1	5											0.1
TOTAL						1	5	1										0.1

TABLE VIII Frequencies of n_z Peaks in n_z versus Equivalent
Airspeed Intervals by Altitude and Gross Weight
for Each Mission Type

a. T-38 Regular

Mission 1 - Training

MISSION	1	WEIGHT				7000				ALTITUDE				2000					
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	^{N2} 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME		
																	HOURS		
LESS																	0.0		
100																	0.8		
150						6	42	20	1								0.3		
200						4	15	10	13	4	1						0.2		
250						6	12	3	8	3	2								
300																			
350																			
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL						16	69	33	22	7	3						1.3		

MISSION	1	WEIGHT				7000				ALTITUDE				5000					TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	n_z 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																			
100																			
150																	0.0		
200									1	1									
250																			
300																			
350																			
400																			
450																			
500																			
550																			
625																			
700																	0.0		
TOTAL									1	1									

MISSION	1	WEIGHT		8000		ALTITUDE		LESS										TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		0.0
100																		0.2
150						6	112	3		2								0.6
200						7	335	5				1						0.0
250							9											
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						13	456	8		2		1						0.9

MISSION	1	WEIGHT				8000				ALTITUDE				1000					TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																		0.4	
100																		7.0	
150						1	66	801	64	6								9.8	
200						2	107	422	21	8	8	5						1.3	
250							25	120	6	10	4	3						0.0	
300								15											
350																			
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL						3	198	1358	91	24	12	8						18.5	

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	1	WEIGHT	8000	ALTITUDE	2000													TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		0.9
100							5											34.0
150						8	290	2681	974	91	4							74.8
200					1	10	1220	3289	1100	1446	482	100	4					95.1
250					8	111	5302	10274	2682	2384	1121	282	15	2				8.0
300				2		10	498	1441	172	152	58	35	3	2				0.1
350							21	10		1	1	1	1					0.0
400							2					1						
450																		
500																		
550																		
625																		
700																		
TOTAL			2	9	139	7333	17700	4930	4074	1666	419	23	4					210.9

MISSION	1	WEIGHT	8000	ALTITUDE	5000													TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		0.3
100																		5.7
150																		13.9
200					1	9	200	317										23.1
250						19	293	628	48	45	15	7						3.0
300						30	1053	2069	241	134	44	23	2					0.1
350						5	168	412	39	7	6							0.0
400							2	9	2	1								
450										1								
500																		
550																		
625																		
700																		
TOTAL				1	63	1721	3445	358	190	65	30	2						46.1

MISSION	1	WEIGHT	8000	ALTITUDE	10000													TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		0.0
100																		0.0
150																		0.4
200																		4.3
250						1	33	38	3									1.2
300						1	12	44	10	4	3	3	1	1				0.1
350						1	3	9	5	1	5	3	2	4	1			0.1
400													1	5				0.0
450													1	3	1			0.0
500													1	1				
550																		
625																		
700																		
TOTAL					3	52	98	19	5	8	8	8	11	1				6.1

MISSION	1	WEIGHT	8000	ALTITUDE	15000													TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		0.0
100																		0.0
150																		0.7
200																		4.8
250						1	11	8	2	1			3	1				2.2
300						2	46	62	7	3			4	6				0.5
350						5	27	32	7	10		4	10	12				0.1
400						5	25	9	11	2		5	10	8	5	1	1	0.0
450							1	1		1		1	4	3	2			
500							2	2	1		1	1	2	1				
550																		
625																		
700																		
TOTAL						13	112	119	28	17	11	29	29	15	2	1		8.3

Mission 1 - Training (Continued)

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Mission 1 - Training (Continued)

MISSION	1	WEIGHT				9000				ALTITUDE				15000				
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
100					4	273	110	4									0.0	
150					7	123	475	101	6	1	1						1.0	
200					12	111	173	80	62	36	39	7	2				5.0	
250			1	3	34	260	415	145	127	120	208	113	54				6.7	
300			2	6	35	269	458	213	165	192	409	398	276	36			24.6	
350				4	22	104	126	67	85	131	364	400	177	52			22.7	
400		1	1	1	11	70	59	25	36	51	173	208	92	19			9.4	
450																1	4.1	
500		1		1	3	22	13	9	6	17	56	40	14	5			0.9	
550									1	3	2	2					0.0	
625																		
700																		
TOTAL		1	4	16	128	1232	1829	653	488	549	1252	1168	615	116	1	1	74.4	

Mission 1 - Training (Continued)

[illegible]

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	1	WEIGHT		10000		ALTITUDE		1000												TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8			HOURS	
LESS																			0.0	
100																			0.0	
150						1	16	249	21	1									2.5	
200						1	25	146	12	4									4.9	
250							5	40	3										0.6	
300								3											0.0	
350						16	10		1										0.0	
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL						2	64	448	36	6									8.0	

MISSION	1	WEIGHT 10000				ALTITUDE 2000														
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS			
LESS																	0.0			
100																				
150						1	46	664	171	11	1	1					11.6			
200						2	272	1442	525	317	34	8					35.2			
250						16	1022	2718	1575	1038	227	50	2				48.3			
300						5	157	581	94	64	14	3	1				4.7			
350				2		3	42	38	5	2	1	1			1		0.2			
400							38	41	8			1					0.1			
450																				
500																				
550																				
625																				
700																				
TOTAL				2		27	1577	5484	2378	1432	277	64	3	1			100.1			

MISSION	1	WEIGHT		10000		ALTITUDE		5000												TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8			HOURS	
LESS																			1.8	
100																			6.8	
150						5	18	1											18.4	
200					1	73	225	19	12	2	2								5.7	
250				1	13	726	1416	174	118	28	4								0.4	
300					4	108	331	51	16	2	3	1							0.2	
350				1		6	13	9	2	1	5	1							0.0	
400						2	5	2	1	1	2		1						0.0	
450					2	3	4	2	1	1	1	2	2						0.0	
500																				
550																				
625																				
700																				
TOTAL				2	20	923	2015	252	150	35	17	4	5	1					33.3	

MISSION	1	WEIGHT		10000		ALTITUDE		10000												TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.6	4.6	5.4	6.6	7.8			HOURS	
LESS																			0.0	
100						1	10	8											0.1	
150							27	81	24	6									1.3	
200						2	16	48	15	21	14	5	4	1	1				1.7	
250						8	41	121	38	40	38	69	44	5					8.0	
300						1	10	79	172	107	87	86	166	158	49	8			11.0	
350						4	15	120	179	89	93	100	200	250	114	40	2		7.6	
400						1	3	25	123	166	79	49	50	131	243	184	41	2	7.1	
450						1	1	10	74	85	45	29	27	64	93	73	19	1	3.7	
500																			0.5	
550																			0.0	
625																				
700																				
TOTAL				1		2	6	72	499	864	408	330	320	641	798	431	112	6	41.1	

Mission 1 - Training (Continued)

60

Mission 1 - Training (Continued)

MISSION	1	WEIGHT		11000		ALTITUDE		5000												
VE	APRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME		
										NZ								HOURS		
	LESS																	0.0		
	100																	0.0		
	150						1		2									0.1		
	200						2	25	71	4								2.6		
	250						6	225	833	67	19		1					18.7		
	300						8	305	1707	74	12		2					24.3		
	350							9	28	2								0.3		
	400								7		1							0.1		
	450																	0.0		
	500																			
	550																			
	625																			
	700																			
	TOTAL					17	564	2648	142	34	11	3						45.7		

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	1	WEIGHT		11000		ALTITUDE		10000												
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS		
100						1												0.0		
150						1												0.0		
200						5	8	2										0.3		
250						3	55	50	6	2								6.8		
300						2	112	178	12	3	2	1	6	1				15.5		
350	2	1	1			25	99	8	2	1	1	3	6					3.4		
400						7	22	2	1	1			2	1	1			0.2		
450						1	3	1	1	2			1	1				0.1		
500										1								0.0		
550																				
625																				
700																				
TOTAL	2	1	1		5	207	360	33	9	7	4	15	3	1				26.4		

MISSION	1	WEIGHT				11000				ALTITUDE				15000														
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME									
																			HOURS									
100																			0.0									
150							14	2											0.1									
200						1	5	7	1	1									0.4									
250						18	33	15	2	6	1	1	1						5.3									
300		1	1	1	3	36	70	7	9	5	9	9	3	1					1.2									
350		2				15	58	12	3	3	5	8	2						1.2									
400					1	4	4	3	1	1	1	3	2	1					0.3									
450						2	4	2	1				1	3	1	1			0.2									
500																			0.0									
550																												
625																												
700																												
TOTAL		3	1	2	5	76	188	48	17	16	17	21	8	2					21.5									

MISSION	1	WEIGHT		11000		ALTITUDE		20000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
100						1												0.0		
150						2	13	3	1									0.0		
200						1	22	23	15	3								0.1		
250						6	87	154	43	17	11	3	1					1.4		
300						13	182	403	74	21	11	10	4					12.9		
350	1			1		3	57	154	26	9	4	5	2	1				29.2		
400							2	6	1			1	1					7.9		
450																		0.1		
500																		0.0		
550																		0.0		
625																				
700																				
TOTAL	1			1	25	364	743	160	50	29	19	8	1					51.6		

MISSION	1	WEIGHT 11000				ALTITUDE 30000												
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
100							1										0.0	
150							20										0.0	
200				1		10	16	5	2	2							0.0	
250				1		32	69	10	9	5		1					0.7	
300				1		17	47	7	3	2	2	1					3.0	
350						5	6	2		1							1.7	
400						2	2				1	1					0.1	
450																	0.0	
500																	0.0	
550																	0.0	
625																		
70.1																		
TOTAL		3	2	2	2	60	161	24	14	10	4	3					5.6	

TABLE VIII (Continued)

Mission 1 - Training (Concluded)

MISSION	1	WEIGHT		11000		ALTITUDE		40000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																				
100																		0.0		
150																		0.0		
200																		0.3		
250																		0.3		
300																		0.0		
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL						13	6	7	2	4	4							0.7		

MISSION	1	WEIGHT		11000		ALTITUDE		50000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																				
100																		0.0		
150																		0.0		
200																				
250																				
300																				
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL																		0.0		

TABLE VIII (Continued)

Mission 2 - Formation

MISSION	2	WEIGHT	7000	ALTITUDE	2000											TIME		
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		0.0
150																		0.2
200																		0.1
250																		0.1
300																		0.1
350																		0.0
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							6	20	9	9	4	1						0.4

MISSION	2	WEIGHT	7000	ALTITUDE	5000											TIME		
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		
150																		
200																		
250																		0.0
300																		0.0
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							2	5										0.0

MISSION	2	WEIGHT	8000	ALTITUDE	LESS											TIME		
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		
150																		
200																		
250																		0.0
300																		0.1
350																		0.0
400																		0.0
450																		
500																		
550																		
625																		
700																		
TOTAL							4	48	1									0.1

MISSION	2	WEIGHT	8000	ALTITUDE	1000											TIME		
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		
150																		
200																		
250																		0.1
300																		1.1
350																		0.8
400																		0.1
450																		0.0
500																		
550																		
625																		
700																		
TOTAL							30	254	17	2								2.0

TABLE VIII (Continued)

Mission 2 - Formation (Continued)

MISSION	2	WEIGHT	8000	ALTITUDE		2000											TIME	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		0.1
150						17	283	115	11	1								4.5
200						2	134	374	115	154	56	12	2					8.5
250						10	730	1504	285	245	111	35	2					12.2
300							104	302	28	14	9	5						1.1
350																		0.0
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						12	985	2463	543	424	177	52	4					26.3

MISSION	2	WEIGHT	8000	ALTITUDE		5000											TIME	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		0.1
150						1												1.5
200						2	53	86	2									3.3
250						7	81	176	9	7	4	4						4.8
300						5	238	520	35	20	5	1	1					0.5
350						2	32	83	4	1	1	2						0.0
400							1	2	1									
450																		
500																		
550																		
625																		
700																		
TOTAL						16	406	867	51	28	10	7	1					10.1

MISSION	2	WEIGHT	8000	ALTITUDE		10000											TIME	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		0.0
150																		0.1
200																		0.9
250						1	1											0.3
300						13	20	1	1	1								0.0
350						2	7											0.0
400						1												0.0
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						17	29	1	1	1								1.4

MISSION	2	WEIGHT	8000	ALTITUDE		15000											TIME	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		0.0
150																		0.1
200																		1.0
250						1	1	2										0.5
300						8	7				1	2						0.0
350						5	10	1			2	3	7					0.0
400											2		1					0.0
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						1	14	20	6		7	5	3					1.7

TABLE VIII (Continued)

Mission 2 - Formation (Continued)

MISSION	2	WEIGHT				POOD				ALTITUDE				20000				
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		0.0
150																		0.0
200																		0.7
250							4	8	2	1								3.2
300						24	47	14	4		1							1.6
350						25	42	11	4	2		4						0.1
400								1		1	2		1					0.0
450																		
500																		
550																		
625																		
700																		
TOTAL						53	97	28	9	4		6	1					5.6

MISSION	2	WEIGHT		POOD		ALTITUDE		30000										
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		
150																		
200																		
250							1											0.2
300							5	2	3	1								0.6
350							4	3	2			1						0.2
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							10	5	5	1	1							1.0

MISSION	2	WEIGHT				POOD				ALTITUDE				LESS											
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS							
100																									
150																									
200																									
250								4										0.0							
300								7										0.0							
350																									
400																									
450																									
500																									
550																									
625																									
700																									
TOTAL								11										0.0							

MISSION	2	WEIGHT		9000		ALTITUDE		1000												
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS		
100																				
150																				
200						13	78	7										0.0		
250						20	69	1										0.6		
300						2	8	2										1.0		
350						9	3											0.2		
400																		0.0		
450																				
500																				
550																				
625																				
700																				
TOTAL						46	158	10										1.8		

TABLE VIII (Continued)

Mission 2 - Formation (Continued)

MISSION																			
VE AIRSPEED	2	WEIGHT	9000	ALTITUDE				2000											TIME
LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
100																	0.1		
150						17	182	57	5	1							2.5		
200					2	75	335	116	97	13	5						6.3		
250					1	11	304	685	264	216	54	13	2				9.8		
300						1	57	102	26	16	6						1.3		
350																1	0.0		
400																	0.0		
450																	0.0		
500																	0.0		
550																	0.0		
625																	0.0		
700																	0.0		
TOTAL					1	14	453	1304	463	327	74	18	2		1		20.1		

MISSION																			
VE AIRSPEED	2	WEIGHT	9000	ALTITUDE				5000											TIME
LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
100																	0.1		
150						2	5										0.9		
200						12	19		1								2.4		
250						1	31	7	1	2							4.2		
300						1	83	200	37	20	1						0.8		
350						1	30	59	10	5	2	1					0.0		
400								1									0.0		
450																	0.0		
500												1					0.0		
550																	0.0		
625																	0.0		
700																1	0.0		
TOTAL						3	158	418	49	27	5	2				1	8.3		

MISSION																			
VE AIRSPEED	2	WEIGHT	9000	ALTITUDE				10000											TIME
LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
100																	0.0		
150																	0.0		
200						2		1									0.1		
250						2	3			2							1.7		
300						8	17	6			1	1					0.6		
350						2	12	2	1	1	2	4					0.2		
400						2	4	2	1	1	2	8	12				0.1		
450						4	3	3	2	2	2	7	10	2			0.2		
500					1	5	6	4	4	4	3	5	4	1			0.1		
550												2	1	1			0.0		
625																	0.0		
700																	0.0		
TOTAL						1	25	45	16	8	10	9	27	31	5		2.9		

MISSION																			
VE AIRSPEED	2	WEIGHT	9000	ALTITUDE				15000											TIME
LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
100						37	9										0.1		
150						4	24	13									0.3		
200						3	11	13		2	2						0.5		
250						2	25	39	17	8	11	17	8	5			2.7		
300						1	4	23	43	24	12	18	43	20			2.3		
350							1	11	22	15	7	11	37	46	17	4	1.3		
400						1	1	3	8	3	6	8	23	21	10	5	0.6		
450									2	1	1	1	11	4	3		0.1		
500																	0.0		
550																	0.0		
625																	0.0		
700																	0.0		
TOTAL						2	8	106	158	85	36	51	134	123	55	13	7.9		

Mission 2 - Formation (Continued)

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TABLE VIII (Continued)

Mission 2 - Formation (Continued)

MISSION	2	WEIGHT		10000	ALTITUDE		5000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
100						2	5										0.0		
150						4	20										0.2		
200						54	90	4	1								0.8		
250						2	28	45	3	2							1.2		
300							2	3									0.4		
350											1						0.1		
400												1					0.0		
450													1				0.0		
500																	0.0		
550																	0.0		
625																	0.0		
700																	0.0		
TOTAL					2	90	163	7	3		1	1					2.7		

MISSION	2	WEIGHT 10000				ALTITUDE 10000														
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS		
100																		0.0		
150																		0.0		
200																		0.1		
250							1		2									0.1		
300							1	5	1	2								1.2		
350							1	15	1	4	3	6	3					1.1		
400						1	6	22	4	7	6	9	11	3				0.6		
450						1	9	7	8	6	4	12	9	12	2			0.5		
500						3	10	5	3	3	3	9	18	11	3			0.3		
550						1	6	3	2	1	3	7	10	8	2			0.0		
625													1							
700																				
TOTAL						6	33	57	22	23	19	43	52	34	7			4.0		

MISSION	2	WEIGHT	10000	ALTITUDE													15000	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		
150						51	28	1										0.2
200						3	28	140	25	3								1.4
250						2	29	37	29	10	7	9	1					1.6
300						1	22	30	24	23	23	11		5	1			2.7
350						3	24	22	28	28	24	34	46	29	9			3.2
400						3	18	11	12	8	12	25	37	8	6			1.3
450						2	6	6	5	5	3	11	11	2				0.4
500						1	2	1			1	6	3					0.1
550																		
625																		
700																		
TOTAL		1		1	15	180	275	124	77	70	108	109	44	16				10.8

MISSION	2	WEIGHT		10000		ALTITUDE		20000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
100																		0.0		
150						8	31	13	14	1								0.5		
200						4	103	84	52	25	7	4	1					4.8		
250						8	104	389	152	105	42	23	7					15.7		
300						5	101	445	165	86	47	28	7					14.7		
350			1	1		1	12	50	15	11	8	7	4	1				1.7		
400																		0.0		
450																		0.0		
500																		0.0		
550											1							0.0		
625																		0.0		
700																		0.0		
TOTAL			1	1	26	352	981	398	228	105	63	19	2					37.6		

TABLE VIII (Continued)

Mission 2 - Formation (Continued)

MISSION	2	WEIGHT	10000	ALTITUDE	30000													
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		0.0
150																		0.2
200																		0.1
250						1	2	4	2									6.1
300						6	178	163	61	25	6	1						19.6
350						2	88	370	119	37	11	4		1				8.3
400							1	7	2	1	1	2		1				0.1
450								1	1									0.0
500									1									0.0
550																		0.0
625																		0.0
700																		
TOTAL						1	9	515	1247	420	154	44	7	2				34.3

MISSION	2	WEIGHT	10000	ALTITUDE	40000													
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		0.0
150																		0.1
200																		0.2
250						2	1											0.0
300						1	3											0.1
350							1											0.2
400																		0.0
450																		
500																		
550																		
625																		
700																		
TOTAL						3	5											0.3

MISSION	2	WEIGHT	11000	ALTITUDE	LESS													
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		0.0
150																		0.0
200																		0.0
250																		0.0
300																		0.0
350																		0.0
400																		0.0
450																		
500																		
550																		
625																		
700																		
TOTAL																		0.0

MISSION	2	WEIGHT	11000	ALTITUDE	1000													
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		0.0
150																		0.2
200																		0.2
250						4	18											0.1
300						8	14											
350						5	34	3										
400							15											
450																		
500																		
550																		
625																		
700																		
TOTAL						17	81	3										0.6

TABLE VIII (Continued)

Mission 2 - Formation (Continued)

MISSION	2	WEIGHT		11000		ALTITUDE		2000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																				
100																				
150								5										0.1		
200							10	37	1	2								0.6		
250							79	119	30	9	5							2.0		
300							57	182	10	2	1	1						1.7		
350							5	42	7									0.1		
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL							161	385	43	13	6	1						4.5		

MISSION	2	WEIGHT		11000		ALTITUDE		5000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																				
100																		0.0		
150																		0.2		
200																		2.0		
250						2	20	89	5									4.1		
300						2	59	264	13	1	2							0.0		
350							1	2										0.0		
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL						4	81	358	18	1	2							6.3		

MISSION	2	WEIGHT		11000		ALTITUDE		10000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																				
100																		0.0		
150																		0.0		
200																		0.8		
250							6	10										2.1		
300						25	33	3			1							0.5		
350					1	6	27	1										0.1		
400							2											0.0		
450							1			1	1									
500																				
550																				
625																				
700																				
TOTAL					1	37	73	4		1	2							3.5		

MISSION	2	WEIGHT		11000		ALTITUDE		15000												TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																				
100																		0.0		
150																		0.0		
200																		0.6		
250																		0.6		
300																		0.6		
350																		0.6		
400																		0.6		
450						1												0.0		
500								1		1								0.0		
550																				
625																				
700																				
TOTAL						1	14	28	2	1								2.8		

TABLE VIII (Continued)

Mission 2 - Formation (Concluded)

MISSION	2	WEIGHT	11000	ALTITUDE	20000													
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		0.0
150																		0.1
200																		1.5
250						1	2											4.0
300					2	14	23	3				1						1.1
350				1	1	39	78	5	2		2							0.0
400				1	1	11	26	2	1			1	1					
450																		
500																		
550																		
625																		
700																		
TOTAL				1	4	65	129	10	3	2	2	2	1					6.7

MISSION	2	WEIGHT	11000	ALTITUDE	30000													
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		0.0
150																		0.1
200																		0.5
250						1												0.4
300						3	8											0.0
350						3	8											
400							1											
450																		
500																		
550																		
625																		
700																		
TOTAL						7	17											1.0

MISSION	2	WEIGHT	11000	ALTITUDE	40000													
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		0.0
150																		0.0
200																		0.0
250						1												0.0
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						1												0.1

TABLE VIII (Continued)

Mission 3 - Nav & General

MISSION	3	WEIGHT				7000				ALTITUDE				LESS				
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		
150																		
200							1											0.0
250																		0.0
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							1											0.0

MISSION	3	WEIGHT				7000				ALTITUDE				1000				
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		
150																		
200						1	4											0.1
250																		0.0
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						1	4											0.1

MISSION	3	WEIGHT			7000			ALTITUDE			2000													
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS						
LESS																								
100																		0.0						
150																		0.9						
200						5	46	20	1									0.3						
250						11	12	8	10	4								0.4						
300						30	30	4	9	6	3													
350																								
400																								
450																								
500																								
550																								
625																								
700																								
TOTAL						46	88	32	20	10	3							1.6						

MISSION	3	WEIGHT				7000	ALTITUDE				5000											TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS				
LESS																						
100																						
150																						
200							4											0.0				
250																		0.0				
300																						
350																						
400																						
450																						
500																						
550																						
625																						
700																						
TOTAL							4											0.0				

Mission 3 - Nav & General (Continued)

MISSION	2	WEIGHT		8000		ALTITUDE		5000												TIME
VE AIRSPEED	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																				
100						1	7											0.3		
150					4	107	300	13	2									8.3		
200					5	307	948	35	20	11	3							22.6		
250					11	965	2321	145	59	17	10	2						25.7		
300					4	200	414	55	6	11	1							3.2		
350						21	50	10	1				1					0.2		
400								2	1			1						6.0		
450																				
500																				
550																				
625																				
700																				
TOTAL					24	1601	4040	260	89	39	15	3						60.4		

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT	8000	ALTITUDE				10000											TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																		0.0	
100																		0.0	
150																		0.9	
200						7	21											7.5	
250					1	91	155	12										1.9	
300						26	71	6	2	3								0.1	
350					1		4						1					0.1	
400						1						1						0.0	
450																			
500																			
550																			
625																			
700																			
TOTAL						2	125	251	18	2	3	1						10.5	

MISSION	3	WEIGHT	8000	ALTITUDE				15000											TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																		0.0	
100																		1.7	
150																		8.1	
200						14	16	2										3.2	
250		1			6	88	76	9	4	1	2							0.3	
300					1	38	70	10	2	2	3	1						0.7	
350						2	4	1			1	1						0.0	
400						1												0.0	
450																			
500																			
550																			
625																			
700																			
TOTAL		1				7	143	166	22	6	5	7	2					13.3	

MISSION	3	WEIGHT	8000	ALTITUDE				20000											TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																		0.1	
100																		3.6	
150																		16.3	
200						1	31	45	7	2	1							9.2	
250						4	167	224	41	13	6	1						0.7	
300						3	93	173	46	17	11	3						0.0	
350						1	6	16	3	1	1	1							
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL						9	297	459	97	33	19	5						30.0	

MISSION	3	WEIGHT	8000	ALTITUDE				30000											TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																		0.0	
100																		1.2	
150																		3.9	
200						1	8	16	4	1	1							1.3	
250						3	36	77	21	8	6	1						0.0	
300					1	2	18	42	12	7	4								
350																			
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL						1	6	62	135	37	11	1						6.7	

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION.	3	WEIGHT		8000	ALTITUDE		40000											
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		0.1
150																		0.3
200																		0.1
250																		
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL																		0.5

MISSION	3	WEIGHT				9000	ALTITUDE				LF55										
VE AIRSPEED	LF55	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS			
LESS																					
100																					
150																		0.0			
200							1	47	1									0.5			
250							4	99	1									0.3			
300								18										0.0			
350							9	10										0.1			
400																					
450																					
500																					
550																					
625																					
700																					
TOTAL						14	174	2										0.9			

MISSION	3	WEIGHT		9000		ALTITUDE		1000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																				
100																		0.1		
150																		3.9		
200						5	37	307	7	5	1							3.5		
250							78	210	9	1	3							0.8		
300							13	86	2	1	1	1		1				0.2		
350							12	36	4									0.0		
400								3										0.0		
450							1											0.0		
500										1								0.0		
550																				
625																				
700																				
TOTAL						5	141	642	22	8	5	2		1				8.5		

MISSION	3	WEIGHT		9000		ALTITUDE		2000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																				
100																		0.2		
150																		22.4		
200						2	94	737	86	1								45.2		
250						1	7	451	2787	189	163	35	9					26.1		
300						2	22	778	2595	487	294	91	24	1				2.9		
350							2	163	1092	67	38	20	6					0.0		
400								2	9	1								0.0		
450							1	1												
500																				
550																				
625																				
700																				
TOTAL						3	33	1489	7221	830	502	146	39	1				96.8		

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT	9000	ALTITUDE	5000													TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		0.2
100						1	7											0.6
150						1	67	201	2									28.6
200						2	290	1211	26	17	17	11						27.2
250						11	561	2522	113	42	14	7	1					4.8
300							162	696	48	10	2	5		1				0.2
350							18	40	4	1	1							0.0
400								5					1					0.0
450								1	1	1								0.0
500																		0.0
550																		0.0
600																		0.0
625																		0.0
700																		0.0
TOTAL						1	14	1099	4163	196	72	34	23	2	1			67.7

MISSION	3	WEIGHT	9000	ALTITUDE	10000													TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		0.0
100																		0.1
150																		0.1
200							7	21	2	1								1.4
250						2	85	187	14	4	3	7	1					11.7
300							55	120	18	7	6	14	12	3	1			5.0
350							1	11	19	3	4	3	13	18	16			0.8
400						1	2	9	9	4	4	1	13	26	18	3		0.5
450							1	6	6	5	8	4	12	10	7	5		0.2
500													3	3	1			0.1
550																		0.1
600																		0.1
625																		0.1
700																		0.1
TOTAL						1	6	173	362	47	28	17	62	70	45	9		19.7

MISSION	3	WEIGHT	9000	ALTITUDE	15000													TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		0.1
100							15	19										0.1
150							5	44	5									0.4
200							1	19	49	7								3.5
250							9	138	189	50	24	26	36	20	3			16.6
300							1	7	99	211	69	57	59	121	70	30	2	11.0
350							1	4	23	44	19	27	54	129	80	32	7	3.0
400								4	12	7	6	7	23	60	41	12	1	1.1
450						1	1	3	3	1	2	5	16	3	1	1		0.3
500													1					0.0
550																		0.0
600																		0.0
625																		0.0
700																		0.0
TOTAL						3	26	314	566	157	121	171	365	216	78	11		36.1

MISSION	3	WEIGHT	9000	ALTITUDE	20000													TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		0.0
100																		0.0
150																		0.9
200							1	13	26	10	2	1						23.0
250							1	8	169	382	124	60	33	16	1			93.2
300							4	36	737	1843	576	342	180	122	17	2	1	61.7
350							1	2	32	583	1613	599	335	177	178	39	8	4.4
400								1	6	58	118	50	41	39	59	21	2	0.2
450										6	10	4	4	6	6	2		0.0
500																		0.0
550																		0.0
600																		0.0
625																		0.0
700																		0.0
TOTAL						1	8	83	1566	3994	1363	784	436	381	80	12	1	183.4

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT				5000				ALTITUDE				30000				
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		0.0
150																		0.8
200					1	14	18	16	5			1						0.0
250				2	13	243	693	204	135		45	8	1					28.5
300				6	30	764	2535	839	444		142	23	3					88.1
350			1	3	17	325	1086	341	170		39	11	2	1				28.7
400						3	5	3	3									0.2
450																		
500																		
550																		
625																		
700																		
TOTAL			1	11	61	1349	4337	1483	757	226	43	6	1					146.4

MISSION	3	WEIGHT		9000		ALTITUDE		40000												
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS		
LESS																				
100																				
150																				
200																		0.5		
250						1	13	27	2		1							5.8		
300							7	23	1									3.9		
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL						1	22	50	4		1							10.2		

MISSION	3	WEIGHT		10000		ALTITUDE		LESS										
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME
LESS																		HOURS
100																		
150																		
200								5										0.1
250							1											0.0
300																		0.0
350							1											0.0
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL								7										0.1

MISSION	3	WEIGHT		10000		ALTITUDE		1000												TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																		0.0		
100																		0.0		
150																		0.0		
200						10	66	5										0.8		
250						17	34	1										0.8		
300						4	11			1								0.6		
350						11	36					1						0.2		
400						1	4											0.2		
450																		0.0		
500																				
550																				
625																				
700																				
TOTAL						43	151	6		1	1							1.9		

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT		10000		ALTITUDE		2000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS			
100																	0.0			
150						33	228	9	1								8.1			
200					1	110	993	66	39	3							17.0			
250					2	151	883	102	72	30	8						9.9			
300					2	71	478	27	15	6	1						1.7			
350						1	13	1									0.0			
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL						5	366	2595	205	127	39	9					36.8			

MISSION	3	WEIGHT		10000	ALTITUDE		5000											TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																	0.0	
100																	4.1	
150						1	25	43									13.6	
200						1	72	463	12	1							13.8	
250						4	276	1142	75	26	6						5.4	
300		1		1	1	100	552	29	15	3	1	1					0.5	
350					1	23	56	3	2	2							0.2	
400						8	27	1	1								0.0	
450																		
500																		
550																		
625																		
700																		
TOTAL		1		1	8	504	2283	120	45	13	1	1					37.6	

MISSION	3	HEIGHT		10000		ALTITUDE		10000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS			
100																	0.0			
150						1	8										0.3			
200						13	36			1							2.6			
250						52	194	12		1	4						9.6			
300						68	188	13	8	7	11	4	2				5.7			
350						2	46	110	13	5	12	9	6				2.0			
400						1	25	42	7	4	10	8	9	3			0.6			
450							5	5	1	1	3	3	3	1	1		0.1			
500						1											0.0			
550																				
625																				
700																				
TOTAL						5	220	563	46	27	18	40	22	20	4	1	21.0			

MISSION	3	WEIGHT		10000		ALTITUDE		15000												TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS			
100						35	20	1									0.1			
150						7	193	16	3								1.2			
200						19	191	21	7	2	1						5.7			
250						1	47	123	32	21	19	4	3				13.9			
300					1	2	58	149	52	34	23	40	25	11			9.6			
350						2	33	49	16	19	19	37	22	5	2		2.7			
400							8	14	3	8	5	10	12	6	1		0.9			
450							1	4		3	3	4	2	1	2		0.1			
500																	0.0			
550																				
625																				
700																				
TOTAL				1	5	205	743	141	65	73	111	66	26	5			34.2			

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT	10000	ALTITUDE	20000													TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS						1												0.0
100						10	6											0.1
150					5	22	51	6	2									1.1
200					5	124	358	125	71	18	5							22.7
250					1	24	476	1875	623	445	132	44	5	1				85.5
300				2	2	21	513	2044	649	403	130	68	11	1				72.3
350					2	72	195	71	44	23	9	3	1					7.1
400						1	6	2	3	2	1							0.2
450																		
500																		
550																		
625																		
700																		
TOTAL			3	3	57	1221	4535	1476	968	305	127	19	3					189.1

MISSION	3	WEIGHT	10000	ALTITUDE	30000													TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS						6												0.0
100						27	37	15	4									0.0
150					2	10	296	1069	355	193	43	4	1	1	1			2.3
200					1	4	29	887	3726	1154	629	144	16	2	3			51.2
250						3	13	358	1643	468	204	44	8					141.0
300								3	11	2	2							46.2
350																		0.4
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL			1		8	54	1577	6486	2004	1032	231	28	2	3	4			241.1

MISSION	3	WEIGHT	10000	ALTITUDE	40000													TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100																		
150						1	1	1										0.3
200					1	9	7	3	2			1						5.5
250						10	7	3				2						4.3
300							1											0.0
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL			1		1	20	16	7	2			3						10.2

MISSION	3	WEIGHT	11000	ALTITUDE	LESS													TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100																		0.0
150							18			1								0.2
200						4	69											0.1
250						1	14	1	1	1		2						0.1
300						1	2	1	2		1	1						0.1
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						6	103	2	4	1	3							0.4

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT				11000				ALTITUDE				1000														TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS										
LESS																												
100																												
150																												
200						1	40	107		1								0.2										
250							28	286		11								1.5										
300							22	124		5	3		1					1.9										
350														1				0.4										
400							1	1										0.0										
450																												
500																												
550																												
625																												
700																												
TOTAL						1	106	579	18	4		2						4.0										

MISSION	3	WEIGHT				11000				ALTITUDE				2000														TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS										
LESS																												
100																		0.6										
150																		4.1										
200							18	63										10.7										
250						5	258	883		62	18	5	1					9.3										
300						8	388	1528		45	11	3						0.5										
350						7	99	191		32	6	1						0.0										
400							1	2																				
450																												
500																												
550																												
625																												
700																												
TOTAL						20	881	2875	142	37	10	1						25.3										

MISSION	3	WEIGHT				11000		ALTITUDE		5000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS				
LESS																						
100																		0.1				
150																		1.0				
200							1	8										13.8				
250							13	37		1								19.8				
300						3	143	783		36	10	1						0.8				
350					1	6	291	1524		83	9	3						0.1				
400					2	51	115	14		2	1							0.0				
450						3	8				1											
500						2																
550																						
625																						
700																						
TOTAL				1	11	504	2475	134	21	6								35.6				

MISSION	3	WEIGHT				ALTITUDE														TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																				
100																		0.0		
150																		0.4		
200																		7.0		
250							3	10										19.4		
300							69	82		2	2	1						4.1		
350						1	127	273		9	2	1						0.5		
400						3	49	154		6	2	1		1				0.0		
450						2	10	31		2	2	2								
500								1		2		1	1							
550																				
625																				
700																				
TOTAL						6	258	551	21	8	6	1	1					27.4		

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT				ALTITUDE				15000										
VF AIRSPEED	LESS	1.55	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
100																			0.0	
150																			0.4	
200																			5.4	
250																			12.0	
300																			4.7	
350																			0.3	
400																			0.0	
450																				
500																				
550																				
625																				
700																				
TOTAL																			22.9	

MISSION	3	WEIGHT		11000		ALTITUDE		20000											
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME	
																		HOURS	
100																		0.0	
150						1	1											0.0	
200							13	17		2								1.7	
250						5	78	242		13	4							14.4	
300						8	183	679		40	5		1					30.1	
350											2							7.2	
400				1		3	65	210		13	2	1						0.1	
450																			
500																			
550																			
625																			
700																			
TOTAL				1	17	340	1148	68	13	4		1						53.4	

MISSION	3	WEIGHT				ALTITUDE				30000									
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME	
	100																	HOURS	
	150																	0.0	
	200																	0.0	
	250					1	9	3	2	2								1.6	
	300	1		2	2	43	107	10	8	4		1						7.7	
	350			1	1	28	76	5	4			1						4.8	
	400						4	1		1								0.1	
	450																		
	500																		
	550																		
	625																		
	700																		
	TOTAL	1		3	5	80	214	19	14	9		2						14.2	

MISSION	3	WEIGHT	11000	ALTITUDE 40000														
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																		0.0
150																		0.3
200																		0.3
250						2	3		2	1								0.0
300						6	5	1	3	1	1							
350						2	1	2										
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						10	9	3	5	2	1							0.6

TABLE VIII (Continued)

Mission 4 - Administrative

MISSION	4	WEIGHT				7000	ALTITUDE				LESS											TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS				
LESS																		0.0				
100																		0.0				
150							3															
200																						
250																						
300																						
350																						
400																						
450																						
500																						
550																						
625																						
700																						
TOTAL							3											0.0				

MISSION	4	WEIGHT		7000		ALTITUDE		1000													TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS			
LESS																					
100																		0.0			
150																					
200																					
250																					
300																					
350																					
400																					
450																					
500																					
550																					
625																					
700																					
TOTAL																		0.0			

MISSION	4	WEIGHT	8000	ALTITUDE		LESS													TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																		0.0	
100																		0.0	
150							3	1										0.1	
200						1		1		1	1							0.0	
250																		0.0	
300																		0.0	
350																			
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL						1	3	2		1	1							0.1	

MISSION	4	WEIGHT		8000		ALTITUDE		1000													TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS			
LESS																		0.0			
100																		0.0			
150						2	19	1	1									0.4			
200						2	6	1										0.2			
250							1											0.0			
300																					
350																					
400																					
450																					
500																					
550																					
625																					
700																					
TOTAL						4	26	2	1									0.6			

Mission 4 - Administrative (Continued)

[illegible]

Mission 4 - Administrative (Continued)

[illegible]

Mission 4 - Administrative (Continued)

MISSION	4	WEIGHT		9000		ALTITUDE		2000												
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME		
																		HOURS		
100																		0.0		
150																		1.5		
200						1	6	75	31									2.3		
250							33	115	23									3.0		
300						2	160	265	43	28	11							0.3		
350						4	31	45	4		3	5						0.0		
400						2	11	76	2			2						0.0		
450								4	1	2								0.0		
500										1								0.0		
550																		0.0		
625																		0.0		
700																		0.0		
TOTAL						9	243	530	104	71	25	7						7.2		

MISSILE																	7.8
VE AIRSPEED	4	WEIGHT		9000		ALTITUDE		5000									
LESS	1.8	1.0	0.6	0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																	
150																	
200						3	14										
250						21	64	3	3	2							0.0
300				2		98	192	27	3	2							0.6
350				2		22	34	4	3	2							1.8
400				1		8	21	5	1	2		3					3.0
450						9	21	10	1	1	2	1					0.6
500				1		14	19	1	1	1	3	1					0.1
550							5			1	1		1				0.1
625						1								1			0.1
700																	0.0
TOTAL						6	176	370	54	18	10	7	5	1			6.2

MISSION	4	WEIGHT															TIME
VE AIRSPEED		9000 ALTITUDE 10000															HOURS
LESS	155	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
100						2	1										0.0
150						2	11										0.2
200						5	17	4	1	1	1						0.8
250						10	15	11	1	2	3	1					1.4
300	1					6	11	6		2	3	6	2				0.7
350				1	1	9	12	4	2	3	3	6	2	1			0.3
400						4	8	7	2	3	3	6					0.2
450						3	5	7		1	6	5					0.1
500						1		3		1	5	4					0.0
550				1		1		3			1	2					0.0
625						1											0.0
700																	0.0
TOTAL	1			2	3	43	80	42	10	11	26	27	8	1			3.7

Mission 4 - Administrative (Continued)

MISSION	4	WIGHT		9000		ALTITUDE		15000												TIME
VS AIRSPEED	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.0	4.6	5.4	6.6	7.5	HOURS		
LESS																				
100						6	1											0.0		
150																		0.0		
200							1	1	2									0.4		
250					2	8	6	2	3	2	2	2	2					1.1		
300						2	7	3	3	4	4	4		2				0.5		
350					1	6	9	4	4	5	5	3	3					0.2		
400					1	6	10	2		1	1	3		1	1			0.1		
450						2	3	1	1									0.0		
500																		0.0		
550																				
625																				
700																				
TOTAL					4	34	37	13	13	12	12	12	6	1				2.4		

MISSION	4	WEIGHT		ALTITUDE												20000	
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	
100						5	2										0.0
150					2	7	10	4									0.1
200						4	12	16	4	1							1.0
250						19	32	14	8	4	3	1	1				3.5
300					2	12	20	7	7	5	5	2	1				2.2
350					1	2	5	1	1	1	2	1	1				0.2
400							1										0.0
450																	0.0
500																	
550																	
625																	
700																	
TOTAL					5	49	82	42	20	11	10	4	3				7.0

MISSION		4		WEIGHT		9000		ALTITUDE		30000												
VE AIRSPEED		LES5	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS			
LESS																						
100																			0.0			
150																			1.0			
200							1	2											3.1			
250							2	2			1								0.8			
300							1	1		1		1		1					0.0			
350																						
400																						
450																						
500																						
550																						
625																						
700																						
TOTAL						2	5	15	1	2		1	1						4.8			

[illegible]

Mission 4 - Administrative (Continued)

MISSION VF AIRSPEED	4	WEIGHT		10000		ALTITUDE		5000												TIME HOURS
		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8		
LESS																				
100																				
150																				
200																				
250							2	8												
300		1				1	22	58	11	6	1								0.4	
350		2					44	101	25	3	4		2						1.5	
400						2	43	123	17	8	5		6	1					1.7	
450						1	22	44	15	5			2	6	1				1.2	
500						1	18	21	5	5			4	4	1				0.2	
550						2	21	32	7	2			1	1	1				0.1	
625								3	1				1						0.1	
700								2	2										0.0	
TOTAL		3				7	172	392	83	31	16	16	12	3					5.2	

TABLE VIII (Continued)

Mission 4 - Administrative (Continued)

MISSION	4	WEIGHT 10000				ALTITUDE 10000				HZ								TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
100						12	5										0.1	
150						11	29	8	1								0.7	
200				1	1	17	29	6	9	3	1						1.2	
250	1		1			23	55	17	13	5	13	4					1.5	
300		2				1	21	45	21	15	9	10	12	2			1.1	
350						3	12	14	7	6	3	9	20	5	1		0.8	
400						2	13	15	4	1	3	3	11	9			0.4	
450						1	15	9	5	4	5	2	2	2			0.2	
500							3	3	2	2	1	1					0.1	
550																		
625																		
700																		
TOTAL		1	2	1	1	8	127	204	70	51	29	39	49	18	2		6.0	

MISSION	4	WEIGHT 10000				ALTITUDE 15000												
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
LESS																		
100					1	100	25	1									0.2	
150					33	108	25	2									0.6	
200			1		6	14	10	3			1						0.8	
250		2			2	8	4	6		2	2	3	1				0.9	
300		1	2	1	1	3	7	5	4	6	8	12	4				0.7	
350		1			1	9	8	6	5	1	11	5	5	2			0.4	
400		1			1	11	9	7	4	1	6	6	1				0.2	
450						2	5	1	1		2		1				0.1	
500																	0.0	
550																	0.0	
625																		
700																		
TOTAL		5	3	1	5	166	184	59	25	10	30	26	12	2			4.0	

MISSION	4	WEIGHT 10000				ALTITUDE 20000												
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
100						6	411	56	1								0.0	
150						8	149	248	32	2							0.6	
200		1	1	1		1	23	43	24	10	2	1					0.8	
250		5	4	2		2	24	73	26	22	9	4	1				2.6	
300	1	6	3			2	26	50	17	18	14	7	2				4.7	
350		1	1			1	11	16	9	4	5	5	1	2			3.9	
400							1	3	1			1					1.1	
450																	0.1	
500																		
550																		
625																		
700																		
TOTAL		13	9	3	20	645	489	110	56	30	18	4		2			13.8	

MISSION	4	WEIGHT 10000				ALTITUDE 30000												
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
100						1											0.0	
150						27	3										0.1	
200						34	16	8									0.2	
250		2	3			60	49	15	5	2	1						3.1	
300		4	2	1		4	38	80	30	11	7	3					7.6	
350		1	1	1	1	20	35	18	19	12	10						2.1	
400						7	5	4	10	8	10						0.2	
450							1	1	1								0.0	
500											1						0.0	
550																		
625																		
700																		
TOTAL		7	6	2	7	187	159	76	46	29	25						13.4	

TABLE VIII (Continued)

Mission 4 - Administrative (Continued)

MISSION	4	WEIGHT 10000				ALTITUDE 40000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																	0.0	
100																	0.1	
150		1				3	2										1.8	
200		2	1		2	19	14	3									1.5	
250		1	1			24	8	9	3								0.1	
300					1	12	5	5	1									
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL		4	2		3	58	29	17	4								3.5	

MISSION	4	WEIGHT 10000				ALTITUDE 50000														TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS			
LESS																				
100																	0.0			
150																	0.0			
200																	0.0			
250																				
300																				
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL																	0.0			

MISSION	4	WEIGHT 11000				ALTITUDE				LESS										TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS			
LESS																				
100																				
150							4													
200							6										0.0			
250							5										0.0			
300							2	2		1							0.0			
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL							17	2		1							0.0			

MISSION	4	WEIGHT 11000				ALTITUDE 1000														TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS			
LESS																				
100																				
150																	0.0			
200						1	6										0.1			
250						1	18										0.1			
300							12	1									0.1			
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL						2	40	1									0.3			

TABLE VIII (Continued)

Mission 4 - Administrative (Continued)

MISSION	4	WEIGHT		11000		ALTITUDE		2000											
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME	HOURS
100																			
150																			
200																			
250																			
300						2	27	60	2										0.0
350							21	87	9	1									0.8
400							2	2											0.7
450																			0.0
500								2											0.0
550																			0.0
625																			
700																			
TOTAL						2	54	160	17	1									1.8

MISSION	4	WEIGHT 11000				ALTITUDE 5000														
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME		
																		HOURS		
LESS																				
100																				
150																				
200																				
250																		0.2		
300																		1.0		
350																		1.5		
400																		0.1		
450																		0.0		
500																		0.0		
550																		0.0		
625																				
700																				
TOTAL																		2.9		

MISSION	4	WEIGHT				11000				ALTITUDE				10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						</
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MISSION	4	WEIGHT				ALTITUDE													
		11000				15000													
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME	
	LESS																	HOURS	
100						8													
150							4											0.0	
200							1											0.0	
250							2											0.0	
300																			
350						3	3	1										0.2	
400						2	3	1	1									0.5	
450					1	1	8	1										0.3	
500						2	6	2	1									0.1	
550																		0.1	
625																			
700																			
TOTAL					1	16	27	5	2									1.2	

TABLE VIII (Continued)

Mission 4 - Administrative (Concluded)

MISSION	4	WEIGHT 11000				ALTITUDE 20000														TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																		0.0		
100						11	4											0.0		
150						1	18	2										0.0		
200						2	3	2										0.1		
250						3	3			1								0.5		
300						11	16	1		1	1	2						1.5		
350						6	15	1		1	1	1						0.6		
400							4											0.1		
450																		0.0		
500																				
550																				
625																				
700																				
TOTAL						34	63	6	3	2	3							2.6		

MISSION	4	WEIGHT 11000				ALTITUDE 30000														TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																		0.0		
100						1	1											0.0		
150						10	8	1	1	1								0.4		
200		1		1	2	9	16	6	5	4	1	1						1.2		
250		4		1	2	5	7	9	3	6	6	2	1					0.7		
300	1	2	1	1		3	2	2	4	4	7			1				0.1		
350								1				1						0.0		
400																		0.0		
450																				
500																				
550																				
625																				
700																				
TOTAL	1	7	1	3	4	28	34	19	13	15	15	3	2					2.3		

MISSION	4	WEIGHT 11000				ALTITUDE 40000														TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																		0.0		
100						2	1	1										0.1		
150						16	13	6	1									0.9		
200		2	2		1	11	12	13	2	1		1						0.8		
250		1	1	2		12	8	5	3				1					0.1		
300				1														0.0		
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL		3	3	3	1	41	34	25	6		1	3						1.9		

TABLE VIII (Continued)

b. T-38 LTF

Mission 1 - Training

MISSION	1	WEIGHT				7000				ALTITUDE				1000				
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		
150							1	3										0.0
200																		
250																		
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL							1	3										0.0

MISSION	1	WEIGHT				8000		ALTITUDE		LESS										
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS		
LESS																				
100																		0.0		
150						7	43	5										0.5		
200						16	10	1										0.3		
250						2	5			1								0.1		
300																				
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL						25	58	6	1									0.9		

MISSION	1	WEIGHT				8000				ALTITUDE				1000				
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		0.0
100																		1.2
150						2	19	118	5									1.5
200							45	52	14	21		2						1.7
250						3	171	118	57	34	7	1						0.1
300							17	13	5	3								
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						5	252	301	84	58	7	3						4.5

MISSION	1	WEIGHT				8000				ALTITUDE				2000					
VF AIRSPEED	LESS	1.55	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																			
150							5	92	29	2									0.9
200							70	135	35	53	16		4						2.2
250						4	268	373	95	91	37		8		1				3.6
300							45	67	12	8	2								0.3
350																			
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL						4	388	657	171	154	55	12	1						7.1

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	1	WEIGHT	8000	ALTITUDE	5000													TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		
150																		
200						7	10	1										0.2
250						13	24	1				1						0.3
300						36	73	8		1								1.0
350							9				2	1						0.1
400								1										0.0
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						96	116	11		1	2	2						1.6

MISSION	1	WEIGHT	8000	ALTITUDE	10000													TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		
150							10											0.0
200						2	16			1								0.1
250							3											0.1
300						4	6	2		1		2	1					0.1
350						2												0.3
400							1				1			1				0.2
450														2	2			0.0
500																		0.0
550												1						0.0
625																		0.0
700																		0.0
TOTAL						8	36	2		2	1	3	3	3				0.6

MISSION	1	WEIGHT	8000	ALTITUDE	15000													TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		
150							10	5										0.0
200								2		1								0.0
250						1	1	1										0.0
300							1	3		1	1			1				0.0
350							3	6	1	1								0.3
400										2								0.3
450											1			2				0.1
500														1				0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						1	15	20		2	4	2		2				0.7

MISSION	1	WEIGHT	8000	ALTITUDE	20000													TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100																		
150																		
200																		
250							2	6										0.0
300							4	27		1	1	1						0.1
350							3	13	1	2	3	3	2					0.6
400								1										0.7
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL							9	47		1	3	4	6	2				1.4

Mission 1 - Training (Continued)

MISSION	WEIGHT		9000		ALTITUDE		5000												
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
LESS																			
100																			
150						15	9	1										0.3	
200					1	23	36	1				22						0.9	
250						53	105	8	6	1		8						3.1	
300						3	74	2	3	1			1	1				0.4	
350													1	1				0.0	
400						1	1					2						0.0	
450						2					1	2		1				0.0	
500										1								0.1	
550																		0.0	
625																			
700																			
TOTAL					1	97	175	14	9	4	34	2	3					4.8	

Mission 1 - Training (Continued)

MISSION	1	WEIGHT 9000					ALTITUDE 30000															TIME
VE AIRSPEED	1.55	1.8	1.0	0.6	0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS					
LESS																	0.0					
100																	0.0					
150								1									0.0					
200						4	10	6		1							0.3					
250					1	12	43	15	8	2		1					0.9					
300				1	2	4	24	6	4	1		1					0.4					
350							1										0.0					
400																						
450																						
500																						
550																						
625																						
700																						
TOTAL				1	3	20	78	28	13	4	2						1.6					

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	1	WEIGHT				10000				ALTITUDE				LESS				
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
LESS																		
100																		
150						2	30	3									0.4	
200						16	17	2	1								0.9	
250						9	13	5	1								0.2	
300						1	1	1									0.0	
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						28	61	11	2								1.5	

MISSION	1	WEIGHT				ALTITUDE										TIME	
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	
100																	
150						9	50	11									0.7
200						16	32	38	15	4							1.7
250					4	144	150	140	72	14	5						3.9
300						4	32	4	3	3	2						0.2
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL					4	173	264	193	90	21	7						6.4

MISSION	1	WEIGHT			10000												ALTITUDE			2000													
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	NZ										TIME						
																												HOURS					
LESS																																	
100																																	
150						2	12	1																				0.2					
200					1	11	24	14	9	2																		0.6					
250					3	85	119	41	47	3	2																	2.5					
300						6	12	1	3	1																		0.2					
350																																	
400																																	
450																																	
500																																	
550																																	
625																																	
700																																	
TOTAL					4	104	167	57	59	6	2																	3.5					

MISSION	1	WEIGHT				10000				ALTITUDE				5000				
VF AIRSPEED	IFSS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
LESS																		
100																	0.0	
150																	0.3	
200							1										2.2	
250						1	13	39	7	6	7						0.6	
300							3	13	1	1	1						0.1	
350								5	1	1			1		2		0.1	
400							4	1		1		1	3	5	1		0.1	
450							3		7		1	2	1				0.1	
500									1				1				0.0	
550							1											
625																		
700																		
TOTAL						2	25	63	12	9	3	7	9	3			3.5	

Mission 1 - Training (Continued)

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TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	1	WEIGHT				10000				ALTITUDE				40000				
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		
150																		
200						1	1					1						0.1
250						2	1											0.1
300						1	1											0.0
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						4	3					1						0.1

MISSION	1	WEIGHT				11000				ALTITUDE				LESS														
VF AIRSPEED	LESS	1.55	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS									
LESS																												
100																												
150								1	7	1									0.1									
200								13	9	1									0.4									
250								6	34	2		1							0.2									
300								1	11	3									0.0									
350																												
400																												
450																												
500																												
550																												
625																												
700																												
TOTAL								21	61	7	1								0.7									

MISSION	1	WEIGHT 11000				ALTITUDE 1000														
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS		
LESS																				
100																				
150						2	16	7										0.2		
200						8	23	11		3								0.6		
250						1	31	47		20								1.4		
300						2	8	21		1		1						0.1		
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL						3	49	147		34	23	1						2.4		

MISSION	1	WEIGHT				11000				ALTITUDE				2000				
VE AIRSPEED	IFSS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		
150							2	2										0.1
200							5	16	7	3								0.4
250							27	26	15	9	3							1.1
300						1	25	54	3									0.8
350							7	1	1									0.0
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						1	66	99	21	12	3							2.3

TABLE VIII (Continued)

Mission 1 - Training (Continued)

MISSION	1	WEIGHT		11000	ALTITUDE		5000											TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		
100																		0.1
150						1												0.3
200						1	5	3	1				1					0.9
250						1	5	9	3									1.2
300							12	42	3	1	1							0.0
350													1					0.0
400													1	1				0.0
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						3	22	56	7	1	1	3	1					2.5

MISSION	1	WEIGHT		11000	ALTITUDE		10000											TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		0.0
100																		0.0
150					1													0.0
200																		0.0
250						1	1	3	1		1							0.3
300						1	22	19	1	2	2	1						1.3
350							32	21	10	6	7	9	3	3				1.8
400						3	6	14	6	3	3	7	8	3				0.5
450							3	1	2	2	1	2	5		1			0.1
500										1	1		1					0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL					1	4	64	58	24	14	14	19	17	6	1			4.1

MISSION	1	WEIGHT		11000	ALTITUDE		15000											TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		0.0
100																		0.0
150																		0.1
200																		0.1
250																		0.5
300						1	12	21	10	10	6	4		1				1.7
350							25	18	10	3	3	4	1	3				1.5
400							6	4	3	2	1	1						0.5
450							4	2			1	1	1					0.0
500							3	1										0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						3	56	55	34	16	14	10	2	4				4.3

MISSION	1	WEIGHT		11000	ALTITUDE		20000											TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		0.0
100																		0.0
150																		0.1
200																		0.5
250																		2.1
300																		2.4
350						1	25	24	8	5		1	1					0.5
400							3	8	3	1	1	1	1					0.0
450							1											0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						1	59	61	30	9	1	2	2					5.5

TABLE VIII (Continued)

Mission 1 - Training (Concluded)

MISSION	1	WEIGHT										ALTITUDE										TIME														
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS																		
LESS																																				
100																																				0.0
150																																				0.1
200																																				0.3
250						1	4	7	2																										0.2	
300							3	4	2			1		1																					0.0	
350																																				
400																																				
450																																				
500																																				
550																																				
625																																				
700																																				
TOTAL						1	8	13	4			1	3	1																					0.6	

MISSION	1	WEIGHT										ALTITUDE										TIME														
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS																		
LESS																																				
100																																				0.0
150																																				0.1
200																																				0.1
250																																				0.0
300																																				
350																																				
400																																				
450																																				
500																																				
550																																				
625																																				
700																																				
TOTAL																																				0.2

TABLE VIII (Continued)

Mission 3 - Nav & General

MISSION	3	WEIGHT		7000		ALTITUDE		1000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																		0.0		
100																				
150																				
200																				
250																				
300																				
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL																		0.0		

MISSION	3	WEIGHT		8000		ALTITUDE		LESS												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																		0.0		
100							4	78	3	1								1.3		
150							6	12	1									0.3		
200					1	7	9	1										0.0		
250							3											0.0		
300																				
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL						1	17	102	5	1								1.6		

MISSION	3	WEIGHT		8000		ALTITUDE		1000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																		0.0		
100							23	76	9	1								2.1		
150							51	52	16	24	5	3						1.8		
200							115	109	18	17	3							1.8		
250					1		4	9	2									0.1		
300																				
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL						1	193	246	45	42	8	3						5.8		

MISSION	3	WEIGHT		8000		ALTITUDE		2000												TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
LESS																		0.0		
100																		2.1		
150							11	72	18									3.0		
200							35	86	20	24	5	1						3.4		
250						3	131	254	50	27	21	4						0.2		
300							25	24	10	1	2	4						0.0		
350							4	2	4											
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL						3	206	498	102	52	28	9						8.7		

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT		8000		ALTITUDE		5000												TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS		
100																		0.4		
150						2	4											1.0		
200					1	25	48	1										2.0		
250					1	39	104	10	3	1								0.2		
300						11	15	1										0.1		
350						1	2													
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL					2	78	171	12	3	1								3.6		

MISSION	3	WEIGHT				8000				ALTITUDE				10000					
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
100																		0.0	
150																		0.1	
200																		0.7	
250						1	10	9	1									0.1	
300								1										0.0	
350																			
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL						1	10	10	1									1.0	

MISSION	3	WEIGHT				8000				ALTITUDE				15000					
VF AIRSPEED	155	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
LESS																		0.0	
100																		0.0	
150								1										0.0	
200										1								0.1	
250							4	7										0.7	
300						1	3	5										0.2	
350																			
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL						1	7	13		1								1.1	

MISSION	3	WEIGHT				8000				ALTITUDE				20000				
VF AIRSPEED	LF35	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		0.0
150																		0.3
200							4	6										1.5
250				1	1	1	15	31	4	1	4							1.0
300							6	14	6	4	8	3						0.0
350										1	3	2	1					0.0
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL				1	1	1	25	41	10	6	15	5	1					2.9

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	HEIGHT				8000				ALTITUDE				30000				
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		0.0
150																		0.1
200																		0.1
250						1												0.4
300						1												0.1
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						2												0.7

MISSION	3	WEIGHT		8000		ALTITUDE		40000												
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS		
LESS																				
100																		0.0		
150																		0.0		
200																		0.0		
250																				
300																				
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL																		0.1		

MISSION	3	WEIGHT				9000				ALTITUDE				LESS				
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		0.0
150						3	30	2										0.7
200						11	13	3										0.4
250						16	15	4	1									0.2
300						1	2											0.0
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						31	60	9	1									1.4

MISSION	3	WEIGHT				9000				ALTITUDE				1000				
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		
150						1	10	29	2									1.3
200							26	60	12	21	3	1						2.1
250						1	96	108	28	14	3	2						1.4
300							4	6	2	1								0.0
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL					1	1	136	203	44	36	6	3						5.3

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT		9000		ALTITUDE		2000										
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		0.0
150						2	18	75										2.4
200				1		62	181		2		1							4.9
250					3	70	152	17	8		2	2						2.6
300						9	41	2	1									0.1
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL				1	5	159	449	25	11		3	2						10.0

MISSION	3	WEIGHT		9000		ALTITUDE		5000										
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		
150						8	6											0.6
200						30	104	4	1									3.5
250						72	160	27	2									3.2
300						21	41	2	1									0.4
350						2	4		2		1							0.0
400																		0.0
450																		
500																		
550																		
625																		
700																		
TOTAL						133	315	28	6	1								7.6

MISSION	3	WEIGHT		9000		ALTITUDE		10000										
VF AIRSPEED	1 FS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
LESS																		
100																	0.0	
150							6										0.3	
200						7	2	7									0.4	
250					2	15	37	4	4	1	2						2.7	
300						19	72	4	4	2	4						1.1	
350						3	2			1							0.1	
400																	0.0	
450												1					0.0	
500														1			0.0	
550																		
625																		
700																		
TOTAL					2	44	69	10	8	4	6	1		1			4.6	

MISSION	3	WEIGHT		9000		ALTITUDE		15000										
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		0.0
100																		0.2
150																		0.8
200						2	4											2.8
250						1	5	3	2									0.8
300						1	19	22	8	2	1	7	2					2.8
350							17	14	3	3	3	11	3	2	1			0.8
400						1	6	0		2	2	10	3					0.2
450							2	4				3	2					0.1
500												1	1		1			0.0
550																		
625																		
700																		
TOTAL					2	47	57	14	9	6	32	11		2	2			4.9

Mission 3 - Nav & General (Continued)

MISSION		HEIGHT		10000		ALTITUDE		LFSS												
VF	AIRSPEED	LESS	1.8	1.0	0.6	0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
	LESS																			
	100																			
	150						1	10	1										0.4	
	200						6	3			1								0.2	
	250						11	14	1		2								0.4	
	300						4	2	1										0.1	
	350																			
	400																			
	450																			
	500																			
	550																			
	625																			
	700																			
	TOTAL						22	29	3		3								1.0	

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT				ALTITUDE												TIME
VF AIRSPEED	1555	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																		
100																		
150						4	8										0.8	
200						10	27	3	4								1.1	
250						9	20	10	1								0.5	
300						5	3										0.0	
350						2	2										1.0	
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						30	60	13	5								2.5	

MISSION	3	WEIGHT				10000				ALTITUDE				2000													
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS										
100																											
150						2	30	1									0.7										
200						38	96	1	1		2						2.3										
250					2	31	63	8	1	2	2						0.9										
300					1	3	11	1	1								0.1										
350						1											0.0										
400																											
450																											
500																											
550																											
625																											
700																											
TOTAL					3	75	200	11	3	2	4						4.1										

MISSION	3	WEIGHT			10000			ALTITUDE			5000												
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS						
100																							
150						1	2										0.3						
200					1	8	41			2	1						1.4						
250					1	18	27	3			3						1.6						
300					1	6	8	1	1		1	2					0.6						
350											1						0.0						
400																	0.0						
450																	0.0						
500																	0.0						
550																							
625																							
700																							
TOTAL					3	33	78	6	1	2	6	2					4.3						

MISSION	3	WEIGHT		10000		ALTITUDE		10000											
VF AIRSPEED	LESS	1.55	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																			
150							2	4											0.0
200								5	1										0.1
250								3	1										0.5
300							7	17	1	3	2	1		1					2.2
350						1	3	12	3	4	1		3						0.9
400						5	2	5	3				1						0.4
450																			0.0
500											1								0.0
550																			
625																			
700																			
TOTAL						6	14	46	3	7	4		5	1					3.9

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT	10000	ALTITUDE	15000												
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	0.0
100						13											0.1
150						1	7	1									0.6
200						3	11	1	1								2.3
250					1	7	17	4	1		1						1.6
300					1		6	4	2	1							0.1
350							1		1								
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL					2	24	62	10	5	1	1						4.7

MISSION	3	WEIGHT				10000				ALTITUDE				20000														
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	NZ										TIME HOURS	
LESS																												0.0
100																												0.2
150																												4.4
200																												13.3
250																												8.2
300																												0.9
350																												0.0
400																												
450																												
500																												
550																												
625																												
700																												
TOTAL																												27.0

MISSION	3	WEIGHT				10000				ALTITUDE				30000				NZ										TIME
VF AIRSPEED	LESS	1.55	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS										
100																		0.0										
150							4	2										0.1										
200						1	26	48	12	4	1							4.4										
250						1	29	144	39	15	4							11.6										
300						1	12	57	17	7	2	1						2.8										
350								2	1									0.1										
400																												
450																												
500																												
550																												
625																												
700																												
TOTAL					1	3	71	253	69	26	7	1						19.0										

MISSION	3	WEIGHT 10000				ALTITUDE 40000														
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS			
LESS																				
100																				
150							1										0.1			
200						4	2		1								1.5			
250						3											1.1			
300																	0.0			
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL						7	3		1								2.8			

TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	WEIGHT	11000	ALTITUDE	LESS															
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8			TIME HOURS
LESS																				
100																				
150						9	13	2												0.0
200						12	12													0.2
250					2	14	19	2												0.2
300						5	8	2												0.0
350																				
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL					2	40	52	6												0.4

MISSION	3	WEIGHT				ALTITUDE				1000										
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	N2	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME		
																		HOURS		
LESS																				
100																				
150						13	14		1									0.1		
200						6	14	2										0.3		
250						11	11											0.2		
300					1	12	20	4										0.1		
350							1											0.0		
400																				
450																				
500																				
550																				
625																				
700																				
TOTAL					1	42	60	6	1									0.7		

MISSION	3	WEIGHT				ALTITUDE												2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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TABLE VIII (Continued)

Mission 3 - Nav & General (Continued)

MISSION	3	HEIGHT	11000	ALTITUDE												TIME		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		0.0
100																		0.0
150																		0.3
200						2	4											1.1
250						8	5	1			1							1.5
300						10	19	1										0.4
350						2	8			2								0.0
400								1										
450																		
500																		
550																		
625																		
700																		
TOTAL						22	36	3		2	1							3.4

MISSION	3	HEIGHT				11000				ALTITUDE				15000														TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS										
LESS																												
100																		0.0										
150																		0.0										
200						2	4	1										0.5										
250						7	13			3								1.3										
300						5	11	2		1								1.4										
350						3	4			1								0.5										
400						3	3	1										0.0										
450								1										0.0										
500																												
550																												
625																												
700																												
TOTAL						20	36	5		5								3.7										

MISSION	3	HEIGHT				11000				ALTITUDE				20000														TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8											HOURS
LESS																												
100																												0.0
150																												0.9
200																												0.9
250																												2.9
300						1	4	34	51	5	4	2																2.9
350							1	7	12	1	1																	0.7
400							1	1	2																			0.0
450																												
500																												
550																												
625																												
700																												
TOTAL						1	7	84	107	7	11	2																7.5

MISSION	3	HEIGHT				11000				ALTITUDE				30000					
VE AIRSPEED	LESS	1.55	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZ	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																			
100																			0.0
150																			0.2
200							2	1	1										0.9
250							2	6	2										0.5
300							3	5			2								0.0
350								1					1						
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL							7	13	3		2	1							1.5

TABLE VIII (Concluded)

Mission 3 - Nav & General (Concluded)

VELOCITY	WEIGHT		ALTITUDE										TIME HOURS
	155	160	165	170	175	180	185	190	195	200	205	210	
LESS													
100													0.0
150													0.0
200													0.0
250													0.1
300													0.0
350													
400													
450													
500													
550													
625													
700													
TOTAL						10	2						0.1

TABLE IX Frequencies of n_z Peaks in n_{ze} versus Equivalent
Airspeed Intervals by Altitude

a. T-38 Regular

ALTITUDE	LESS																TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100						12	210	26									0.2
150						22	599	81	2	2							2.3
200						3	45	19	2	1	2	3					2.4
250						10	15	4	3	2	2	1					0.4
300																	0.2
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL						47	869	130	7	5	4	4					5.4

ALTITUDE	1000																TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100						1	1										1.3
150					3	315	2290	282	18	1							33.6
200					9	525	1309	209	31	14	3						47.4
250						167	792	377	40	12	4	1	1				10.7
300						49	179	116	10	4	2	1					1.3
350						37	54	7	3		2						0.1
400						1	2	1			1						0.0
450									1								0.0
500																	
550																	
625																	
700																	
TOTAL						12	1075	5627	992	103	31	12	2	1			94.5

ALTITUDE	2000																TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100						2	6	2									2.5
150						17	884	6803	1653	143	6	2					150.2
200						47	4204	13124	5735	3312	712	143	1				352.7
250						15	362	17063	28210	12124	7052	2222	619	32	1		428.6
300					3	2	79	2546	8648	2531	585	217	73	10		3	54.8
350							15	189	330	194	41	18	8	1	1		1.5
400							1	43	72	27	8	4	1		1		0.2
450									3	2	1						0.0
500																	
550																	
625																	
700																	
TOTAL						3	19	521	24931	55196	22268	11142	3179	846	44	3	990.5

ALTITUDE	5000																TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
100						12	28										1.2
150						2	556	648	27	4							34.8
200						1	49	1489	3144	346	144	64	19	2			115.1
250						3	130	5319	9651	2403	638	224	65	10			199.9
300						4	43	1413	4301	2327	272	67	30	12	2	1	82.7
350						1	6	137	307	151	35	15	19	9	3	1	3.7
400							2	36	85	39	15	9	10	12	5	2	1.0
450							4	35	49	17	8	3	6	3	4	1	0.3
500								6	12	3	1						0.1
550								1	2	3		1			1		0.0
625																	
700																	
TOTAL						4	11	255	9004	18227	5316	1117	383	151	48	14	638.7

TABLE IX - (CONTINUED)

ALTITUDE 10000																	TIME	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS								1.8	2.2									0.0
100						1	27		1									0.3
150						1	45	152	84	33		1						0.3
200				1		7	81	167	63	46	36	30						3.3
250	1		1			21	495	858	246	98	82	149	93	20	1			11.7
300		3	1	2	25	460	935	515	190	136	290	279	134	32		1		76.1
350	2	1	1	6	33	259	472	355	164	142	325	379	287	125	10			70.0
400		1	2	6	38	197	243	193	104	87	219	365	369	176	11			23.7
450			1	1	16	127	109	106	66	58	147	164	157	91	3			13.2
500				1	3	15	9	15	11	11	31	23	18	9	2			6.9
550																		1.0
625						1					1	2						0.0
700																		
TOTAL	3	6	6	17	145	1707	2974	1583	713	553	1193	1311	987	437	27			206.0

ALTITUDE 15000																	TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS								1.8	2.2								0.0
100						4											5.2
150				1	9	1245	548	35	2								29.6
200			2	1	31	500	2262	918	122	11	3						44.0
250				5	48	484	1091	677	399	161	122	28	7	2			119.9
300	4	3	5	66	890	1116	685	561	483	715	377	169	32	1			117.0
350	4	6	14	110	862	1307	953	716	727	1355	1184	846	234	4			46.4
400	3	2	8	80	451	514	445	381	478	1119	1004	487	180	1			14.7
450	1	1	4	38	238	247	166	143	176	443	469	231	53	1	1		2.8
500				7	59	59	42	29	47	119	73	23	11	1			0.1
550					1	2		1	3	6	3	2					0.0
625																	
700																	
TOTAL	13	14	34	409	4734	7146	3921	2354	2086	3882	3138	1765	512	8	1		379.7

ALTITUDE 20000																TIME HOURS	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS				2		1		1.8	2.2								0.1
100			1	1	25	481	149	22	2								2.1
150			1	1	130	793	850	367	62	12	4						14.9
200		1	2	6	166	1648	1881	1177	642	331	166	33	7				133.9
250		9	5	19	242	3496	7704	3983	2191	1271	944	270	71	6	1		483.2
300	1	12	8	21	190	2833	7602	4439	2213	1265	1216	397	113	15			407.3
350		2	2	5	42	391	837	670	350	295	430	156	31	4			51.5
400				1	4	24	38	31	29	35	55	18	4				2.0
450						1	1		1	2	1						0.0
500																	0.0
550																	
625																	
700																	
TOTAL	1	24	19	56	799	9668	19042	10669	5490	3211	2816	844	226	25	1		1095.1

ALTITUDE 30000																TIME HOURS	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS								1.8	2.2								
100					1	30	6		1								0.0
150					10	101	134	84	21	2	1						0.2
200		3	4	7	54	923	2562	1526	725	250	57	3	1	2			5.8
250	1	10	7	25	125	2595	9045	4863	2365	861	212	12	5	4			132.7
300	1	2	3	14	62	1091	4039	2064	891	290	112	13	7	2			389.7
350				1	1	20	45	29	22	14	27	6	1	1			134.3
400						2	3	3	2			2					1.6
450								1			1						0.0
500																	0.0
550																	
625																	
700																	
TOTAL	2	15	14	47	253	4763	15844	8573	4026	1417	410	36	14	9			660.3

TABLE IX - (CONTINUED)

ALTITUDE 40000																TIME	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	0.0
100																	1.3
150		1			1	8	4	2	1								17.5
200		4	3		4	61	61	26	9	4	4	2					13.4
250		3	3	2	1	54	56	33	21	7	8	4					0.3
300				1	1	21	9	12	13	4	2	1					0.0
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL		8	6	3	7	144	130	73	44	13	14	7					32.5

ALTITUDE		50000																
VE AIRSPEED									NZE									TIME
	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS	
LESS																		
100																		0.0
150																		0.0
200																		0.0
250																		
300																		
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL																		0.0

b. T-38 LTF

ALTITUDE		LESS															
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	0.0
100																	4.8
150						43	200	31	3								8.6
200					1	133	94	18	5	5	6						1.7
250					2	65	94	51	15	1	1						0.2
300						8	15	16	6								
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL					3	249	403	116	29	6	7						11.4

ALTITUDE		1000																
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
LESS																	0.0	
100																	8.6	
150				1	3	101	307	61	3	2	1						12.9	
200					1	211	260	201	130	25	4						17.8	
250					11	864	707	535	307	80	20						0.8	
300					4	61	89	45	12	5	6						0.0	
350						1	3											
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL				1	19	1238	1366	842	452	112	31						40.2	

TABLE IX - (CONTINUED)

ALTITUDE		2000																
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		0.0
100						1												8.2
150					4	56	327	34										18.4
200				1	2	290	587	211	106	20	3							22.2
250					21	944	1089	452	295	73	21	1						3.3
300					2	179	249	102	27	10	3							0.1
350						11	18	8	2		1	1						0.0
400							1	2										0.0
450						1	2											
500																		
550																		
625																		
700																		
TOTAL				2	29	1482	2273	809	430	103	28	2						52.3

ALTITUDE 5000																	TIME			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE				2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																				
100						1	35	36	1											2.5
150						4	110	238	21	2	4	22								9.3
200						5	286	436	78	24	3	11	1							16.3
250						2	82	147	65	19	7	3	3	2						5.3
300						1	6	19	8	3	3	2	4	2		2				0.4
350						1	5	4	3	1	4	3	5	3		3				0.2
400							4		1	1	1	3	1	3						0.2
450							1		1		1		1	3		1				0.0
500									1											
550																				
625																				
700																				
TOTAL					14	529	880	178	50	19	45	12	13	5						34.2

ALTITUDE 10000																	TIME HOURS
VE AIRSPEED	LESS	1F55	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8
LESS																	
100					1		8	32	1								0.0
150						1	5	105	40	3							0.1
200							24	74	17	8	5	4	1				1.0
250					1	8	106	157	60	26	25	32	14	8			2.8
300		1	2			9	133	154	87	39	28	53	41	39	8		12.9
350		1				11	47	68	44	25	23	47	49	43	19	1	9.0
400						3	19	14	17	19	17	28	43	39	17	3	3.2
450						1	14	4	6	9	13	13	10	9	6	2	1.4
500							2	3			1	1	3	2			0.5
550																	0.1
625													1				
700																	
TOTAL		2	2	2	33	358	561	252	129	112	178	162	140	50	6		30.9

ALTITUDE 15000																	TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	0.0
100						160	19	1									0.3
150						7	58	181	71	5	1						2.0
200						6	63	79	95	46	18	19	2				5.8
250						10	97	170	119	69	58	86	31	15	3		15.7
300			1			10	96	138	95	67	53	96	75	62	14		11.8
350			1			4	40	40	30	29	29	73	55	32	11		3.2
400					1	2	18	22	14	10	9	29	28	24	8		0.8
450						1	5	6	3	2	2	11	6	3			0.2
500												3					0.0
550																	
625																	
700																	
TOTAL		2	1	4	40	537	655	428	228	170	317	197	137	36			40.4

TABLE IX -(CONCLUDED)

ALTITUDE 20000																	TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	0.0
100				1	4	41	6	2									0.1
150				2	10	71	61	15	4	1							1.1
200				1	20	144	216	146	81	28	9	2					14.7
250		1	1	7	30	451	930	497	263	145	78	14	3				48.7
300				2	19	307	771	394	226	122	107	25	6				35.0
350				1	4	35	53	39	26	24	35	9	1				4.0
400					1	3	4	1	1		4	2					0.1
450																	0.0
500																	
550																	
625																	
700																	
TOTAL		1	1	14	88	1052	2041	1094	601	320	233	52	10				103.8

ALTITUDE 30000																	TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE 1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	0.0
100						1											0.0
150						6	5	2									0.3
200					1	3	44	99	54	21	8	3	1				8.8
250					2	9	97	344	181	79	29	10	1				24.9
300					3	5	47	169	82	37	11	6	1	1			7.7
350							6	6	3	3	1	3	2				0.4
400												1					0.0
450																	
500																	
550																	
625																	
700																	
TOTAL				5	17	201	623	322	140	49	23	5	1				42.1

ALTITUDE 40000																	TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE 1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	
100																	
150						1	1										0.3
200		1	1			10	8	1	1		1	1					3.7
250						11	7	4									2.8
300						6	3	1									0.1
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL		1	1			28	19	6	1		1	1					6.9

ALTITUDE 50000																	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE 1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	
100																	0.0
150																	0.0
200																	
250																	
300																	
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL																	0.0

TABLE X Frequencies of n_z Peaks in n_{ze} versus Equivalent
Airspeed Intervals by Altitude for Each Mission
Type

a. T-38 Regular

Mission 1 - Training

MISSILE	1	ALTITUDE															LESS	
VE AIRSPEED	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		0.0
150																		0.4
200						8	120	15										0.6
250						10	427	37			1							1.1
300							13	6										0.1
350							1											0.0
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						18	561	58		1								1.7

MISSION	1	ALTITUDE															1000		
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
LESS																			
100							1											0.6	
150						3	188	1539	207	11								17.6	
200						3	306	855	125	22								34.7	
250							85	501	187	25	11	3							
300											9								
350							4	32	27	5		3						6.3	
400							35	46	7	3		1						0.3	
450								2	1			2						0.1	
500												1						0.0	
550																			
625																			
700																			
TOTAL						6	618	2976	554	66	20	10						59.6	

MISSION	ALTITUDE																	
	2000																	
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		1.2
150																		78.6
200						13	584	4583	1299		5	2						1.2
250						26	2696	7416	4259	2576	572	114						78.6
300					11	246	11256	19402	9130	5686	1822	498	1					216.2
350			3	1	51	1533	3611	1281	392	150	53		27	1				294.9
400						7	106	160	47									31.0
450						1	41	67	24	10	8	7		1				0.6
500								2	1	6	3	1		1				0.1
550																		
625																		
700																		
TOTAL			3	13	344	16216	35247	16043	8791	2560	675	37	3		2			622.8

MISSION	1	ALTITUDE															5000	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100						7	16											0.5
150				1	13	288	270	19	-									11.6
200				1	32	667	1036	194	90	32								38.3
250				3	88	2977	4816	1364	452	169		9	2					100.6
300				2	22	639	1863	1078	123	30		45	6					40.2
350				1	1	24	78	35	9	3		9	5					1.4
400						3	14	6	3	4		3	2	1	1			0.4
450					2	4	4	3	1	1		2	2	3	2			0.1
500						3	2	1						3		1		0.1
550																		
625																		
700																		
TOTAL				H	158	4612	8099	2700	681	239	77	20	7	4	1			193.2

TABLE X - (CONTINUED)

Mission 1 - Training (Continued)

MISSION	ALTITUDE 10000																	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		0.0
100					1	14	18	1										0.2
150					1	28	100	34	16									1.9
200					5	34	61	34	29	26	28		6	2	1			3.8
250					16	188	318	109	65	60	110	78	17	3				32.1
300		1		1	20	212	404	267	136	103	232	222	114	30		1		35.4
350		1	1	6	22	145	239	198	126	118	275	314	226	114		10		17.8
400		1	2	5	28	135	159	134	83	68	173	294	307	156		10		10.0
450			1	1	13	90	79	72	46	42	109	131	130	80		2		5.6
500					1	13	8	9	8	9	22	14	14	8		2		0.8
550																		0.0
625																		0.0
700																		0.0
TOTAL	2	3	4	13	107	859	1386	863	509	426	949	1065	812	392	25			103.6

MISSION	1	ALTITUDE 15000															
VE AIRSPEED		NZE															TIME
	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	0.0
100				1	8	1044	451	30	2								4.5
150					28	438	1821	778	100	11	3						25.5
200			1	1	44	401	814	578	356	146	103		24	7	2		29.0
250			3	3	63	564	712	514	476	397	602		324	151	28	1	66.4
300			4	10	89	597	816	678	570	581	1100		987	739	207	4	71.9
350		2	2	6	67	345	338	313	300	368	871		813	403	153		31.6
400			1	2	28	193	193	131	111	126	334		377	193	43	1	11.0
450		1		1	5	49	38	33	23	35	84		58	17	9	1	2.0
500							2		1	3	3		2	1			0.1
550																	
625																	
700																	
TOTAL	6	11	25	332	3635	5185	3055	1939	1667	3100	2585	1511	442	7	1		241.9

MISSION	1	ALTITUDE 20000															TIME	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																		0.1
100			1	1	18	153	81	16	1									1.3
150			1	1	105	603	542	248	45	10	3							11.0
200			1	4	143	1181	1003	737	420	234	121		28	6				68.7
250		3	1	12	144	1829	3520	1948	1116	703	634		219	63	5			227.0
300		5	2	15	107	1361	3284	2063	1159	711	773		286	92	13			193.6
350		1	1	3	25	197	372	336	211	188	292		102	22	2			26.1
400				1	3	14	18	19	21	23	38		14	4				1.1
450						1			1	1	1							0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL	9	7	39	545	5339	8870	5367	2974	1870	1862	649	187	20					528.8

MISSION	1	ALTITUDE 25000																
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		0.0
100						5	3	1										0.1
150						35	68	32	6									1.9
200			1	3	22	322	840	562	282	96	20		1					36.4
250			4	7	41	823	2823	1715	903	331	77		4	1				102.1
300			1	5	22	323	1210	697	312	109	36		6	4	1			36.3
350					1	6	15	9	7	2	2		3	1				0.4
400						2	1	1					1					0.0
450																		0.0
500																		0.0
550																		
625																		
700																		
TOTAL		6	15	91	1516	4960	3037	1510	538	135	15	6	1					177.1

TABLE X - (CONTINUED)

Mission 1 - Training (Concluded)

MISSION	1	ALTITUDE 40000															TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	0.0
100																	0.2
150																	2.0
200				1		1	13	11	4	2	2	2	1				1.6
250							10	11	8	4	1	4	2				0.1
300							3	1	1	3		2					
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL			1		1	27	24	11	9	3	8	3					3.8

MISSION	1	ALTITUDE 40000															TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	0.0
100																	0.0
150																	
200																	
250																	
300																	
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL																	0.0

Mission 2 - Formation

MISSION	2	ALTITUDE														5000	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	
100						3	5										0.1
150						68	38		1								2.6
200					8	117	143	17	7	6							6.6
250					8	373	536	115	30		1						12.2
300					7	114	241	161	20	5	3						5.7
350						4	7	1			1						0.1
400																	0.0
450												1					0.0
500																	0.0
550																	0.0
625															1		0.0
700																	0.0
TOTAL					25	679	968	294	58	13	6	1		1			27.5

TABLE X - (CONTINUED)

Mission 2 - Formation (Continued)

MISSION	2	ALTITUDE 10000															TIME	
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.6	4.6	5.4	6.6	7.8	HOURS
LESS																		0.0
100																		0.1
150							3		3									0.4
200							3	7	2	2								4.6
250							27	41	13	4	3	8	5	1				4.1
300							1	22	46	24	8	7	12	15	9	1		1.3
350							2	12	24	20	8	7	12	18	21	7		0.7
400							3	11	9	5	3	6	11	23	24	8		0.5
450							1	10	8	7	4	6	11	12	13	6		0.1
500							1			1	1			3	2	1		
550																		
625																		
700																		
TOTAL					8	88	135	75	30	31	54	76	70	23				11.7

MISSION	2	ALTITUDE 15000															TIME	
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.6	4.6	5.4	6.6	7.8	HOURS
LESS																		0.3
100							35		1									1.8
150							3	26	142	56	8							2.3
200							2	26	40	17								6.0
250							3	53	65	39	31	34	48	24	11	3		7.5
300							1	8	50	66	55	41	44	79	83	53	22	3.2
350							1	4	26	37	31	20	22	66	77	34	14	1.0
400							1	4	8	13	8	12	13	34	31	15	4	0.2
450									2	4				9	3			0.0
500										1	1	2	15	9	3			
550												1	1	1				
625																		
700																		
TOTAL				3	25	267	402	231	130	124	257	226	117	43	1			23.2

MISSION	2	ALTITUDE 20000															TIME	
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.6	4.6	5.4	6.6	7.8	HOURS
LESS																		0.1
100																		0.3
150							9	38	13	1		1						10.3
200							8	141	152	90	55	23	16	3				37.6
250							29	315	728	345	189	123	81	24	3			32.7
300							1	2	16	271	768	401	187	119	131	46	9	4.1
350							4		27	80	53	27	26	54	28	5	2	0.2
400									1				4	8	2			0.0
450												1						0.0
500																		
550																		
625																		
700																		
TOTAL				1	2	66	794	1741	908	461	297	291	103	17	2			85.8

MISSION	2	ALTITUDE 30000															TIME	
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.6	4.6	5.4	6.6	7.8	HOURS
LESS																		0.0
100																		0.0
150																		0.4
200																		9.3
250																		31.0
300																		13.3
350																		0.2
400																		0.0
450																		0.0
500																		
550																		
625																		
700																		
TOTAL																		54.0

TABLE X - (CONTINUED)

Mission 2 - Formation (Concluded)

MISSION	2	ALTITUDE 40000																
VF AIRSPEED	LESS	-1.8	-1.0	-0.4	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS	
LESS																		
100																	0.0	
150																	0.1	
200						2	1										0.2	
250						1	3										0.0	
300							1											
350																		
400																		
450																		
500																		
550																		
625																		
700																		
TOTAL						3	5										0.3	

Mission 3 - Nav & General

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TABLE X - (CONTINUED)

Mission 3 - Nav & General (Continued)

MISSION	3	ALTITUDE	10000														TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	0.0
100																	0.4
150							1	8									5.3
200							25	60	9	2	1						35.8
250						4	251	440	87	14	8	13	1				28.0
300						1	197	437	194	26	14	29	16			1	7.0
350						7	80	181	114	16	9	29	28	23	2		1.7
400				1		4	35	55	35	10	8	25	33	25	7	1	0.4
450					1	1	11	11	10	10	5	15	13	11	6	1	0.1
500												3	3	1			
550																	
625																	
700																	
TOTAL				1	18	600	1162	449	79	45	114	94	66	16	7		78.6

MISSION	3	ALTITUDE	15000														TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	0.2
100																	1.7
150							41	36	3								11.3
200							10	213	38	8							44.1
250							1	50	224	47	16	5	4				35.8
300			1			18	263	327	126	48	48	61	26	8		4	10.7
350				3		12	207	409	210	97	93	162	98	45			2.3
400				1		6	67	122	90	50	79	169	103	41	9		0.4
450					1	4	20	20	16	14	33	69	52	20	5		0.0
500							1	3	6	3	3	9	20	6	2	3	
550													1				
625																	
700																	
TOTAL			1		5	42	661	1357	533	236	267	486	287	114	21		106.5

MISSION	3	ALTITUDE	20000														TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	0.0
100																	0.1
150																	2.1
200							7	31	70	20							51.0
250				1		14	302	462	304	148	89	28	2				209.4
300			1	4		66	1312	3370	1618	853	426	216	23	3		1	173.3
350			3	5		64	1163	3484	1935	844	415	296	57	10			19.4
400				2		11	153	361	263	106	74	73	24	3			0.5
450							8	14	8	7	8	8	2				0.0
500																	
550																	
625																	
700																	
TOTAL				4	12	162	2978	7968	4151	1964	993	621	110	18	1	1	455.9

MISSION	3	ALTITUDE	30000														TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	0.0
100																	0.0
150																	3.3
200							5	35	49	36	13	1	1				82.3
250			1			3	24	481	1483	813	381	137	29	2	1	2	240.6
300			1			12	63	1495	5302	2608	1244	451	102	7	1	4	81.3
350				1		7	32	631	2341	1103	459	138	42	3	1		0.8
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL			2	1	23	123	2652	9191	4569	2102	728	175	12	3	6		408.5

TABLE X - (CONTINUED)

Mission 3 - Nav & General (Concluded)

MISSION	3	ALTITUDE 40000															
VE AIRSPEED	LESS	-1.8	-1.0	-0.4	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	
100																	
150						2	1	1									0.9
200			1		2	22	31	9	2	2	2						11.9
250						18	31	8	2	4	3	1					8.7
300						2	1		2								0.1
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL			1		2	4	64	18	6	6	5	1					21.6

TABLE X - (CONTINUED)

Mission 4 - Administrative

MISSION	4	ALTITUDE														LESS			
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE			2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIMF
	LESS																		HOURS
100																			0.0
150							5	1											0.1
200						1	4	4	1										0.1
250							4	2											0.0
300							1	1	2				1						0.0
350																			
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL						1	14	8	3			1							0.2

MISSION	ALTITUDE															
	1000															
VE AIRCRAFT	NZE															
LESS	1.8	1.0	0.6	0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																
100						1										0.0
150						4	22	5	1							1.0
200						4	9	4								0.7
250						1	9	9								0.2
300							6	6	1							0.1
350																
400																
450																
500																
550																
600																
650																
700																
TOTAL						10	46	24	2							1.9

MISSION	4	ALTITUDE														2000			
VE AIRSPEED	LESS	-1.0	-1.0	-0.6	-0.2	0.2	1.4	NZE				2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																			
100																			0.1
150						1	13	110	32										3.1
200							72	204	60	41	12	3							5.3
250						6	261	436	142	68	23	7							6.8
300						4	52	121	61	12	5	4							1.3
350						2	17	44	4	1									0.1
400								4	1	2									0.0
450								1	;	1									0.0
500																			
550																			
625																			
700																			
TOTAL					13	415	920	301	125	40	14								16.6

MISSION	4	ALTITUDE 5000															
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	
100																	0.0
150						6	25										1.4
200					47	130	24	13	5								4.3
250		1		5	162	320	106	18	9	3	2						6.7
300		2		4	69	182	108	20	12	8	7	1					3.4
350				2	25	59	31	10	7	7	6	2					0.5
400				1	24	37	22	11	4	6	7	1					0.3
450				3	31	44	13	6	2	3	2	2					0.1
500					3	10	3	1									0.0
550					1	2	3		1								0.0
600																	
650																	
700																	
TOTAL		3		15	368	809	310	79	40	29	24	6					16.8

TABLE X - (CONTINUED)

Mission 4 - Administrative (Continued)

MISSION	4	ALTITUDE 10000															TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	
100						13	11	5									0.1
150						13	44	37	18								0.9
200						18	38	17	13								2.1
250	1	1	1		2	30	60	38	16	11	17	9					3.5
300		2	1		1	31	47	36	19	13	17	19					2.5
350						4	19	28	23	14	8	10	20	15		3	1.6
400						2	16	20	19	7	5	9	15	14		3	0.7
450					1	1	16	11	16	5	5	12	7	3			0.4
500				1			3	2	5	3	2	7	4	1			0.1
550							1					1	2				0.0
625																	
700																	
TOTAL	1	3	2	3	12	160	261	196	95	51	76	76	39	6			12.0

MISSION	4	ALTITUDE 15000															TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	
100						1	85	26	1								0.2
150							24	86	46								0.7
200			1		1	8	13	11	10		1						1.4
250		2				2	11	13	7	5	4		4	1			2.4
300		1	2		1	7	15	9	7	10	13	16	9		2		1.8
350		1				3	14	17	12	11	8	14	11	9	3		0.9
400		1			2	16	21	10	5	4	5	8	3	1			0.5
450						6	11	6	3	1	2	1	1				0.2
500																	0.0
550																	0.0
625																	
700																	
TOTAL		5	3	1	10	171	202	102	49	28	39	40	23	6			8.1

MISSION	4	ALTITUDE 20000															TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	
100						6	319	60	4								0.0
150						10	121	226	81	10							0.6
200			1	1		1	23	44	20								0.9
250			6	3	2	3	41	86	32	19	12		2	1			3.9
300	1		7	2		3	37	66	40	24	18	7	2		2		7.7
350		1	1			2	15	25	19	5	6	10	3	1			1.9
400					1	1	6	3			1						0.2
450																	0.0
500																	
550																	
625																	
700																	
TOTAL	1	15	7	3	26	557	513	243	91	51	42	12	4	2			24.5

MISSION	4	ALTITUDE 30000															TIME HOURS
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	
100						1	21	3	1								0.0
150							27	13	11								0.1
200			3	3	1	4	53	44	27	8	3	3					0.2
250			8	2	3	6	36	74	51	23	13	12	1	1			4.5
300	1		2	2	1	2	20	33	27	15	25	3	2		1		12.0
350							6	4	6	9	11	23	4		1		3.5
400								1	1	2							0.0
450												1	1				0.0
500																	
550																	
625																	
700																	
TOTAL	2	13	7	5	13	165	172	124	70	42	64	9	3	2			20.6

TABLE X - (CONTINUED)

Mission 4 - Administrative (Concluded)

MISSION	ALTITUDE																TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	0.0
100																	0.2
150		1	2		2	25	17	14	5	1		1					3.5
200		4	2		1	25	11	18	15	2	1	1					2.9
250		3	2	2	1	16	6	11	8	3		1					0.2
300				1	1												0.0
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL		8	4	3	4	70	37	44	29	6	1	3					6.8

MISSION	ALTITUDE																TIME
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	0.0
100																	0.0
150																	0.0
200																	0.0
250																	
300																	
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL																	0.0

TABLE X - (CONTINUED)

b. T-38 LTF

Mission 1 - Training

MISSION	1	ALTITUDE 1000															TIME
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	0.0
100																	2.3
150							30	136	18	1							3.6
200							104	67	9	4	5	6					0.8
250							25	57	32	3	1	1					0.1
300							2	9	9	3							
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL						1:1	269	68	17	6	7						6.9

MISSION	1	ALTITUDE 1000															
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	0.0
100																	4.0
150						3	54	229	48	3	1	1					7.4
200						1	123	138	148	94	19	3					13.1
250						9	634	529	466	287	77	19					0.5
300						3	41	62	30	8	5	6					
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL						16	852	958	692	392	102	28					25.1

MISSION	1	ALTITUDE 2000															
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	0.0
100						1											2.4
150					1	23	177	29									6.5
200					2	147	216	154	93	18	1						13.5
250					13	655	679	357	240	59	16	1					1.8
300					1	103	126	49	14	3	2						0.1
350						4	3		1				1				0.0
400							1										0.0
450							1	2									0.0
500																	
550																	
625																	
700																	
TOTAL				1	17	934	1204	591	348	80	19	2					24.4

MISSION	1	ALTITUDE 5000															
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	
100						1	22	14	1								0.7
150						2	40	45	5	1	3	20					1.8
200																	7.2
250						2	102	162	25	16	3	8					2.3
300							12	55	27	8	4	2	1	2			2.3
350						1		5	2		1	1	4	2	2		0.1
400							4	2		1					5	3	0.1
450							4		1	1	1	3	1	3			0.2
500							1		1								0.2
550										1			1				0.0
625																	
700																	
TOTAL						6	185	283	62	27	13	37	10	13	5		12.5

TABLE X - (CONTINUED)

Mission 1 - Training (Continued)

MISSION	1	ALTITUDE 10000															
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	0.0
100				1		6	27										0.1
150					1	4	75	25	1								0.6
200						9	9	9	8	5	4	1					1.2
250				1	3	47	82	46	18	21	26	13	8				5.7
300					3	46	57	30	28	23	43	40	39	8			4.6
350		1			6	27	30	30	23	20	44	47	43	18		1	2.0
400					3	18	9	16	15	15	28	42	38	15	3		1.2
450					1	11	3	5	8	11	12	10	9	6	2		0.6
500						1	1			1	1	3	2				0.1
550												1					
625																	
700																	
TOTAL		1		2	17	162	293	161	101	55	158	157	139	47	6		15.9

MISSION	1	ALTITUDE 15000															
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	0.0
100						148	17	1									0.3
150					7	54	169	69	5	1							2.3
200					6	57	61	87	41	17	18	2					3.7
250			1		8	63	108	96	66	54	78	29	14	3			8.2
300		1			8	69	109	82	58	47	85	72	62	13			7.5
350		1		3	3	28	27	27	26	25	61	52	31	10			2.3
400				1	1	13	13	11	8	8	23	26	24	7			0.6
450					1	5	5	3	1	2	9	5	3				0.1
500											3						0.0
550																	
625																	
700																	
TOTAL		2	1	4	34	437	509	376	205	154	277	186	134	33			24.9

MISSION.	1	ALTITUDE 20000															
VE AIRSPEED		NZE															TIME
	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
																	0.0
100				1	3	19	2										0.1
150				1	9	36	31	7	3								0.7
200					17	86	87	73	43	13	3	2					5.2
250			1	3	10	180	355	194	104	51	37	13	3				18.0
300				2	6	127	322	161	93	55	67	19	6				15.5
350				1	2	19	33	20	13	14	29	9	1				1.8
400									1		3	2					0.1
450						2	2										0.0
500																	
550																	
625																	
700																	
TOTAL		1		8	47	469	832	455	257	133	139	45	10				41.4

MISSION	1	ALTITUDE 30000															
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	0.0
100																	0.0
150						1	1	1									0.1
200						10	29	19	5	3	2	1					1.2
250						3	29	119	67	30	12	5	1				4.5
300				1	2	14	67	32	17	5	2	1	1				2.2
350							1				2	2					0.0
400											1						0.0
450																	
500																	
550																	
625																	
700																	
TOTAL				1	6	55	217	119	52	20	12	5	1				8.0

TABLE X - (CONTINUED)

Mission 1 - Training (Concluded)

MISSION	1	ALTITUDE 40000																	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																			
100																			0.0
150																			
200						3	1						1	1					0.1
250						4	1												0.1
300						1	1												0.0
350																			
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL						8	3						1	1					0.3

TABLE X - (CONTINUED)

Mission 2 - Formation

MISSION		2	ALTITUDE 1000																
VE AIRSPEED		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																			
150																			
200							3	4	2										0.1
250							1	3											0.1
300																			0.0
350								1											0.0
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL							4	8	2										0.2

MISSION		2	ALTITUDE 2000																
VE AIRSPEED		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																			
150																			
200							1	2											0.2
250							10	31	5	1									0.6
300							14	30	6	3	2								0.4
350							4	13	3	3	1								0.1
400									1										0.0
450																			
500																			
550																			
625																			
700																			
TOTAL							29	76	15	7	3								1.4

MISSION		2	ALTITUDE 5000																
VE AIRSPEED		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																			
150																			
200								2											0.2
250							1	6											0.2
300							3	12	2										0.2
350							1	4	1										0.1
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL							5	24	3										0.7

MISSION		2	ALTITUDE 10000																
VE AIRSPEED		LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100																			
150																			
200																			
250							4	3											0.0
300																			0.1
350																			0.0
400																			0.0
450																			
500																			
550																			
625																			
700																			
TOTAL							4	3											0.1

TABLE X - (CONTINUED)

Mission 2 - Formation (Concluded)

MISSION	2	ALTITUDE 15000															
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	
100																	0.0
150																	0.1
200																	0.1
250							2										0.1
300							3	2									0.0
350									1								
400																	
450																	
500																	
550																	
625																	
700																	0.2
TOTAL						5	2		1								

MISSION	2	ALTITUDE 20000														TIME	
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE 2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	0.0
100																	0.1
150									1								0.6
200							1		2	1							0.5
250						3	7	3	4	1		2					0.1
300						4	6	4	4								
350						2	1	1				1					
400																	
450																	
500																	
550																	
625																	
700																	1.3
TOTAL						9	15	8	7	2	3						

MISSION	2	ALTITUDE 30000														TIME	
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE 1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	HOURS
LESS																	
100																	0.0
150																	0.1
200						1	1	2	1								0.2
250							2	5									0.1
300							2	1									
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL						1	5	8	1								0.4

TABLE X - (CONTINUED)

Mission 3 - Nav & General

MISSION	3	ALTITUDE LESS															TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	0.0
100																	2.4
150						13	62	13	2								0.9
200					1	28	26	9	1								0.9
250					2	40	37	19	5								0.1
300						6	6	7	2								
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL					3	87	131	-8	10								4.4

MISSION	3	ALTITUDE 1000															TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	0.0
100																	4.3
150					1	43	71	11		1							5.3
200						87	116	52	34	6	1						4.5
250					2	225	175	68	20	3	2						0.2
300					1	19	23	14	4								0.0
350						1	3										
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL				1	3	375	388	145	58	10	3						14.4

MISSION	4	ALTITUDE 2000															TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	0.0
100																	5.3
150						3	31	141	7								10.8
200					1	130	311	48	10	2	2						7.5
250					8	229	333	76	35	8	5						1.2
300					1	51	88	39	9	6	4						0.1
350						7	8	5			1						
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL				1	12	448	881	170	54	16	9						24.8

MISSION	3	ALTITUDE 5000															TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																	1.5
100																	6.7
150						10											8.2
200					2	63	148	10	1	1	2						2.5
250					2	137	221	41	3		3						0.1
300					2	49	63	24	7	1	1	2					0.0
350						3	7	7	2	1	1						0.0
400						2	3	3									
450																	
500																	
550																	
625																	
700																	
TOTAL					6	266	452	80	13	3	7	2					19.1

TABLE X - (CONTINUED)

Mission 5 - Nav & General (Continued)

MISSION	3	ALTITUDE 10000																
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100						1	4											0.0
150							10	2										0.4
200						8	7	5										1.4
250						3	34	55	9	7	4	6	1					6.7
300						1	28	41	16	8	3	7						3.6
350						4	7	10	9		3	1						0.9
400										1			1					0.0
450											1					1		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						8	78	127	41	16	11	14	2		1			13.0

MISSION	3	ALTITUDE 15000																
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100						10												0.0
150						3	12	1										0.3
200						6	16	9	4			1						1.9
250						2	31	59	23	3	5	7	2					7.2
300						2	24	25	13	9	5	11	3	2				4.0
350						1	9	12	7	2	2	10	3		1			0.8
400							3	6	1	1		3	2			1		0.1
450										1		1	1					0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						5	86	130	49	20	12	33	11	2	2			14.4

MISSION	3	ALTITUDE 20000																
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100						3	3	2	1									0.0
150						58	119	72	36	16	5							0.4
200						3	266	562	298	151	93	40	2					9.1
250						1	12	175	441	227	130	66	39	5				29.5
300							2	12	19	20	12	10	6					18.7
350							1	1	2									2.0
400																		0.0
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						1	5	37	515	1146	619	330	185	90	7			59.8

MISSION	3	ALTITUDE 30000																
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
100						5	4	1										0.0
150						1	2	31	69	32	13	4	1					0.3
200						3	3	64	219	105	47	15	3					7.2
250						1	3	31	100	47	17	5	2					19.2
300								1	3	2			1					5.2
350																		0.2
400																		0.0
450																		0.0
500																		0.0
550																		0.0
625																		0.0
700																		0.0
TOTAL						2	8	132	395	187	77	24	7					32.2

TABLE X - (CONTINUED)

Mission 3 - Nav & General (Concluded)

MISSION	3	ALTITUDE 40000																	
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.0	NZE		1.8	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																			
100																			
150								1											0.2
200						6	4		1										3.0
250						5	3		1										2.2
300																			0.0
350																			
400																			
450																			
500																			
550																			
625																			
700																			
TOTAL						11	8		1	1									5.4

TABLE X - (CONTINUED)

Mission 4 - Administrative

MISSION	4	ALTITUDE LESS															
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	0.0
100																	0.0
150							2										0.1
200						1	1										0.0
250									1								0.0
300									1								0.0
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL						1	3		2								0.1

MISSION	4	ALTITUDE 1000															
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	
100																	0.0
150						1	3										0.2
200							3	1	2								0.1
250						5	3	1									0.2
300						1	3	1									0.0
350																	
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL						7	12	3	2								0.5

MISSION	4	ALTITUDE 2000															
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																	0.0
100																	0.0
150						1	7	3									0.2
200						3	29	4	2								0.5
250						45	47	13	16	4							0.8
300						22	22	11	2								0.2
350							7	2	1								0.0
400																	
450																	
500																	
550																	
625																	
700																	
TOTAL						71	112	33	21	4							1.7

MISSION		ALTITUDE 5000																	
VF	AIRSPED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE			2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
	LESS																		
	100																		
	150							1	10										0.2
	200							6	39	5									0.6
	250							43	41	11	4								0.7
	300					1		21	24	13	5	2							0.4
	350							2	7	4	1	1							0.1
	400					1													0.0
	450													1					0.0
	500																		
	550																		
	625																		
	700																		
	TOTAL					2	73	121	33	10	3	1							2.0

TABLE X - (CONTINUED)

Mission 4 - Administrative (Continued)

MISSION	4	ALTITUDE 10000																TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100						1	1											0.0
150						1	20	14	2									0.1
200						7	8	3										0.2
250						20	18	4	1									0.4
300		1	2		6	60	55	22	3		1	2						0.8
350						20	28	4	2		1	3						0.2
400						2	5	2	3		1		2	1	2			0.1
450						2	2	1	1		1							0.1
500						1	1				1							0.0
550																		
625																		
700																		
TOTAL		1	2		8	114	138	50	12	5	6	3	1	2				1.8

MISSION	4	ALTITUDE 15000																TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100						2	1											0.0
150						1												0.0
200							2		1									0.1
250						1	3											0.3
300						1	3				1	1						0.1
350						3	2	1		2	2			1				0.1
400						1	1	1		1	2				1			0.1
450					1		2	1	1		2							0.1
500																		
550																		
625																		
700																		
TOTAL					1	9	14	3	2	4	7			1	1			0.9

MISSION	4	ALTITUDE 20000																TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100						1	21	4										0.1
150					1	1	32	27	5									0.1
200								9	2	1								0.2
250						1	3	5	2	5		1						0.6
300						1	1	2	1									0.2
350							2	1		1								0.1
400																		0.0
450																		
500																		
550																		
625																		
700																		
TOTAL				1	4	59	48	12	7			1						1.3

MISSION	4	ALTITUDE 30000																TIME HOURS
VE AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	NZE		2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	
LESS																		
100						1												0.0
150																		0.0
200						1	2	1	1	1								0.0
250						1	1	4	2	4	3	1	1					0.3
300					2	1	2	1	2	3	2	2						0.9
350							4	2	1	3	1	1						0.2
400																		0.1
450																		0.0
500																		
550																		
625																		
700																		
TOTAL				3	3	13	6	8	10	5	4							1.5

TABLE X - (CONCLUDED)

Mission 4 - Administrative (Concluded)

MISSION	4	ALTITUDE 40000																
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		0.0
150																		0.0
200		1	1			3	3	1										0.6
250						2	3	3										0.5
300						4	2	1										0.0
350																		
400																		
450																		
500																		
550																		
600																		
625																		
700																		
TOTAL		1	1			9	8	5										1.2

MISSION	4	ALTITUDE 40000																
VF AIRSPEED	LESS	-1.8	-1.0	-0.6	-0.2	0.2	1.4	1.8	NZE	2.2	2.6	3.0	3.8	4.6	5.4	6.6	7.8	TIME HOURS
LESS																		
100																		0.0
150																		0.0
200																		
250																		
300																		
350																		
400																		
450																		
500																		
550																		
600																		
625																		
700																		
TOTAL																		0.0

TABLE XI

Flight Hours, No. of Flights, and No. of
Touch-and-go Landings by Mission Type and
Air Base for Regular and LTF T-38 Data

Mission Type					
<u>Data Grouping</u>	<u>Training</u>	<u>Formation</u>	<u>Nav & General</u>	<u>Administrative</u>	<u>Total</u>
<u>Williams AFB - Regular T-38 Data</u>					
Flight Hours	871.1	110.8	938.9	59.6	1980.4
No. of Flt's	820	96	803	69	1788
No. of T & Go's	1858	91	276	27	2252
<u>Reese AFB - Regular T-38 Data</u>					
Flight Hours	1061.5	153.8	658.9	48.1	1922.3
No. of Flt's	968	134	564	60	1726
No. of T & Go's	1853	129	155	7	2144
<u>Total - Regular T-38 Data</u>					
Flight Hours	1932.6	264.6	1597.8	107.7	3902.7
No. of Flt's	1788	230	1367	129	3514
No. of T & Go's	3691	220	431	34	4376
<u>Williams AFB - LTF T-38 Data</u>					
Flight Hours	65.3	4.3	70.6	5.4	145.6
No. of Flt's	57	4	59	8	128
No. of T & Go's	124	3	8	0	135
<u>Reese AFB - LTF T-38 Data</u>					
Flight Hours	8.8	0	18.7	3.6	31.1
No. of Flt's	9	0	15	4	28
No. of T & Go's	29	0	4	1	34
<u>Moody AFB - LTF T-38 Data</u>					
Flight Hours	87.1	0	98.1	2.1	187.3
No. of Flt's	87	0	88	3	178
No. of T & Go's	128	0	29	0	157
<u>Total - LTF T-38 Data</u>					
Flight Hours	159.4	4.3	187.4	11.1	362.2
No. of Flt's	153	4	162	15	334
No. of T & Go's	281	3	41	1	326

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