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NEW YORK CITY PILOTS AUTOMATIC TELEPHONE WEATHER ANSWERING SERVICE (PATWAS) TEST, VOLUME II

Frank Staiano

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FINAL REPORT

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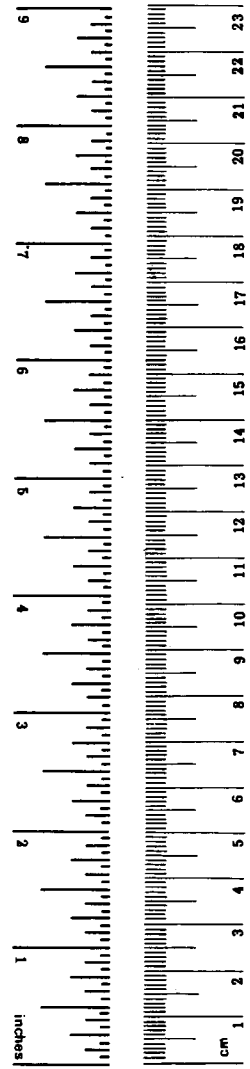
METRIC CONVERSION FACTORS

Approximate Conversions to Metric Measures

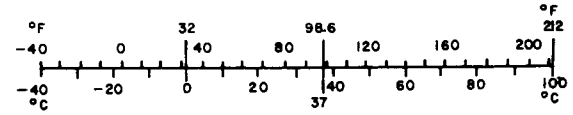
Symbol	When You Know	Multiply by	To Find	Symbol
		LENGTH		
in	inches	*2.5	centimeters	cm
ft	feet	30	centimeters	cm
yd	yards	0.9	meters	m
mi	miles	1.6	kilometers	km
		AREA		
in^2	square inches	6.5	square centimeters	cm^2
ft^2	square feet	0.09	square meters	m^2
yd^2	square yards	0.8	square meters	m^2
mi^2	square miles	2.6	square kilometers	km^2
	acres	0.4	hectares	ha
		MASS (weight)		
oz	ounces	28	grams	g
lb	pounds	0.45	kilograms	kg
	short tons (2000 lb)	0.9	tonnes	t
		VOLUME		
tsp	teaspoons	5	milliliters	ml
Tbsp	tablespoons	15	milliliters	ml
fl oz	fluid ounces	30	milliliters	ml
c	cups	0.24	liters	l
pt	pints	0.47	liters	l
qt	quarts	0.95	liters	l
gal	gallons	3.8	liters	l
ft^3	cubic feet	0.03	cubic meters	m^3
yd^3	cubic yards	0.76	cubic meters	m^3
		TEMPERATURE (exact)		
°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C

*1 in = 2.54 (exactly). For other exact conversions and more detailed tables, see NBS Misc. Publ. 286, Units of Weights and Measures, Price $2.25, SD Catalog No. C13.10:286.



Approximate Conversions from Metric Measures

Symbol	When You Know	Multiply by	To Find	Symbol
		LENGTH		
mm	millimeters	0.04	inches	in
cm	centimeters	0.4	inches	in
m	meters	3.3	feet	ft
m	meters	1.1	yards	yd
km	kilometers	0.6	miles	mi
		AREA		
cm^2	square centimeters	0.16	square inches	in^2
m^2	square meters	1.2	square yards	yd^2
km^2	square kilometers	0.4	square miles	mi^2
ha	hectares (10,000 m^2)	2.5	acres	
		MASS (weight)		
g	grams	0.035	ounces	oz
kg	kilograms	2.2	pounds	lb
t	tonnes (1000 kg)	1.1	short tons	
		VOLUME		
ml	milliliters	0.03	fluid ounces	fl oz
l	liters	2.1	pints	pt
l	liters	1.06	quarts	qt
l	liters	0.26	gallons	gal
m^3	cubic meters	35	cubic feet	ft^3
m^3	cubic meters	1.3	cubic yards	yd^3
		TEMPERATURE (exact)		
°C	Celsius temperature	9/5 (then add 32)	Fahrenheit temperature	°F



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15. Supplementary Notes This is a two-volume report. Volume I (FAA-RD-77-80, I) summarizes the work and presents conclusions and recommendations; volume II (FAA-RD-77-80, II) contains detailed technical data. The Executive Summary (FAA-RD-77-80) presents a compendium of the NYC PATWAS Test.

16. Abstract

An improved Pilots Automatic Telephone Weather Answering Service (PATWAS) was subjected to a year-long test in the New York City metropolitan area. The improvements consisted primarily of the following: (1) user access to three route-oriented briefings, (2) an increase in the number of access lines to PATWAS, (3) more frequent updating of information, (4) the addition of special early morning recordings, (5) capability to request meteorological and aeronautical information from the Weather Message Switching Center for incorporation into the PATWAS message, (6) reduction in the time required for updating, (7) addition of more meteorological and aeronautical information to the PATWAS message, (8) new and more efficient magnetic tape equipment, (9) installation of an acoustic enclosure for PATWAS tape recording, and (10) more efficient organization of the message format.

The purpose of the experiment was to test and evaluate the new PATWAS products, schedules, user acceptance, and the effects on the telephone briefing workload at the flight service station (FSS).

In addition, the test permitted the gathering of technical performance data which could serve as the basis for a new, consolidated national system for the mass dissemination of weather information. It is concluded that the improved PATWAS disseminates more weather information, reduces FAA/NWS telephone briefer workloads, is preferred over the basic PATWAS, and is acceptable to the general aviation public.

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PREFACE

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Acknowledgement is given to Mr. Edward Gross of the National Weather Service Headquarters for his important contribution and encouragement in the conceptual development of the test and to personnel of the National Weather Service, who not only made the experiment possible, but along with FAA personnel, assisted in conducting the test.

The professional skill of Mr. Edward Morin of the National Weather Service at La Guardia Airport is gratefully acknowledged. Mr. Morin and members of his staff helped to develop the product design and schedule and were responsible for providing the required manpower on a day-to-day basis for accomplishing the operational aspects of the test.

Acknowledgement is given to Mr. John Vandenberg of Lockheed Electronics Corporation who accomplished the test design and the analysis of data.

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INTRODUCTION

OBJECTIVE.

As part of the Near Term Flight Service Station Improvement Program, the Federal Aviation Administration (FAA), in conjunction with the National Weather Service (NWS), conducted a controlled experiment known as the New York City (NYC) Pilots Automatic Telephone Weather Answering Service (PATWAS) Test. The purpose of the experiment was to test and evaluate new PATWAS products, schedules, user acceptance, the effects on the telephone briefing workload at the flight service station (FSS), and to gather technical performance data.

BACKGROUND.

Prime responsibility for conducting and financing the NYC PATWAS test was assigned to the FSS Branch (ARD-440) of the FAA. With technical support from the FAA's National Aviation Facilities Experimental Center (NAFEC), ARD-440 was responsible for the following:

1. Design, procurement, and installation of system equipment.

2. Development of a test plan delineating the method of data collection, analysis, and interpretation of the results obtained.

3. Cooperation with the NWS to assist in the definition of procedures, products, and schedules for the test.

The NWS was responsible for the following:

1. Detailed operational aspects.

2. Weather product design and scheduling.

3. Manpower required to develop the necessary products and text.

4. The manual preparation of the recordings.

The rapid growth in general aviation has made it necessary to improve and expand the present system for disseminating aviation weather information to the flying public. It is apparent that the projected growth of the flying public will give rise to a corresponding increase in the demand for preflight weather briefings. One of the most effective techniques currently being utilized to disseminate aviation weather information is the telephone-accessed prerecorded PATWAS. The purpose of PATWAS is to provide aviation users with weather information for preflight planning.

Operational since July 1975, a trial PATWAS system in the NYC area provides telephone access to three tailored independent recordings at three different phone numbers. One phone number provides the local New York area (50 nautical mile (nmi) radius) conditions. Briefing information for routes northbound is available at a second number. The third number provides pertinent information for routes south and westbound. Selected Notice to Airmen (NOTAM's) which affect flight safety or the use of aeronautical facilities are appended to the appropriate recordings. The number of access lines was increased to virtually eliminate busy signals. Other improvements included new magnetic tape equipment, expanded message content, improved message format, more frequent updating of information, and reduction in the time required for updating. In order to meet the pilot's need for current weather information in the early hours, presumably when he is doing his flight planning, two special early morning recordings were developed in addition to those prepared in the morning, afternoon, and evening. All messages were updated hourly, and if conditions demanded, more frequently. The new system contained the capability to request meteorological and aeronautical information from the Weather Message Switching Center (WMSC) for incorporation into the PATWAS message.

The trial PATWAS provides the following information:

1. Flight precautions,
2. Winds aloft,
3. Synopsis,
4. Area or route forecasts,
5. Terminal forecasts,
6. Hourly observations from selected locations, and
7. NOTAM's pertaining to flight safety or the use of aeronautical facilities at these locations.

Prior to the installation of the trial PATWAS, the only PATWAS service provided in the NYC metropolitan area was that offered by the La Guardia Weather Service Office (LGA WSO). This basic PATWAS system provided a two-line access for calls originating in the local area (toll-free) and "message unit" toll calls from other areas on Long Island. In addition, a foreign exchange line provided toll-free access to the same announcement from the Teterboro, New Jersey, area. These services remained operational during trial PATWAS testing.

The content of the basic PATWAS message was limited to a generalized forecast for New York City and vicinity and a synopsis report. No route information was provided, nor hourly weather, specific flight precautions, terminal forecasts, or NOTAM's. AIRMET's were not specific. The message contained only general information on wind. No specific heights were included. Recordings were updated three times a day.

Initially, pilots learned of the availability of the new trial PATWAS through the basic PATWAS recording, which also remained operational throughout the testing period. (The terms "basic" and "trial" PATWAS have been used in lieu of "old" and "new" PATWAS, since the terms "old" and "new" are prejudicial.)

The trial PATWAS was evaluated in a number of ways as shown in table 1-1. One of the principal methods of evaluation consisted of a questionnaire that was mailed to all pilots registered with the General Aviation District Offices (GADO's) in Farmingdale, New York, and Teterboro, New Jersey (table 1-2). Approximately 26,000 pilots received the questionnaire. The questionnaire was designed to measure the degree in which the trial PATWAS satisfied the flight planning needs of the respondents and to determine if it constituted a significant improvement over the basic PATWAS. Appropriate follow-up efforts were made to obtain an input from nonrespondents to the primary questionnaire. In addition, a supplemental survey of 3,152 volunteer pilots was taken to measure pilot reaction to the trial PATWAS after recurrent use of the system. It was hypothesized that the supplemental survey would provide weightier opinions on the acceptability and effectiveness of the trial PATWAS.

The test procedures and time periods during which they occurred are listed in table 1-3.

TABLE 1-1. SUMMARY OF DATA COLLECTION METHODS

No.	System Response		Source of Data		What the Data are Expected to Show	Comment
	Type	Method of Measuring	Organization	Procedure		
1	User Acceptance	No. of completed phone calls (Objective)	N.Y. Bell Tel. Co.	Counter on phone lines	Increased number of calls indicates pilot acceptance since they are actually using the system more	Long term trends in demand, seasonal, and weather variations must be taken into account
2	User Acceptance, FSS workload	No. briefings given per month (Objective)	F.S.S. Supervisors and Briefers	Monthly record of briefings given	Decrease in number of briefings	Same as above
3	User Acceptance	**Questionnaire sent by FAA (i.e., pilot opinion) (Subjective)**	NAFEC contact pilots	Mailed questionnaire	**Pilot reactions to trial as compared with basic PATWAS, judgement of acceptability of various aspects**	
4	User Acceptance	Post-Flight Contact with Stratified Sample (Subjective)	NAFEC contact pilots	Phone and mail contact with selected sample of pilots	**Superiority of trial PATWAS as compared with basic; acceptability of changes in content, form, or format, and schedule**	
5	System Line Loading	Time on line after contact (Objective)	NAFEC	Print-out from timer on line	Whether or not "barge-in" is troublesome	Comparison of time on line with actual message length reveals extent to which requester listens to more than one cycle of message
6	WSO workload	Workload changes (Subjective)	W.S.O. Supervisors and Operators, PATWAS test personnel	Workload determined from supervisory judgment, operator opinion, and observations by test personnel	**One operator can handle workload so that there is no increase in personnel required to operate trial PATWAS**	
7	Equipment/ procedural adequacy	Direct observation (Subjective)	NWS Supervisors and Operators, PATWAS test personnel	Expert opinion and operator judgement	Nature of changes (if any) required in equipment and/ or procedures	

TABLE 1-2. COUNTIES OF RESIDENCE AND AIRPORTS INCLUDED IN NYC PATWAS TEST

Counties of Residence*

New Jersey	New York
Passaic	Queens
Hunterdon	Manhattan
Hudson	Brooklyn
Bergen	Nassau
Middlesex	Bronx
Morris	Richmond
Somerset	Westchester
Essex	Orange
Union	Suffolk
Sussex	Sullivan
Mercer	Rockland
Monmouth	Putnam
	Dutchess
	Ulster

Airports**

Morristown	La Guardia
Teterboro	J. F. Kennedy
Newark	Farmingdale
	Islip
	White Plains

*Included all personnel registered with the General Aviation District Office (GADO) at Farmingdale and Teterboro.
**Includes NYC area airports with FAA control towers.

TABLE 1-3. TEST PROCEDURES AND AFFECTED TIME PERIODS

Time Period Starting	Ending	Test Procedure
Prior to	April 1975	Planning and Design
April 1975	May 1975	Equipment procurement
June 1975	July 1975	Equipment installation and checkout
July 24, 1975	to present	Equipment operational
August 1975	July 1976	Gather 12-month period of data for the following activities: PATWAS, FSS/WSO briefings, itinerant aircraft departures
November 1975	December 1975	Distribute announcements of test and descriptive material
May 1976	June 1976	Initial distibution of questionnaire
August 1976	September 1976	Follow-up distribution of questionnaire
August 1976	August 1976	Distribution of supplementary evaluative material
During November 1976		Telephone contact with selected nonrespondents
April 1976	October 1976	Determination of PATWAS message length, user time on line, and weather day
	November 30, 1976	Date data collection ended.

PATWAS CONTACTS, FSS/WSO BRIEFINGS, AND AIRCRAFT OPERATIONS

This section contains the detailed material upon which the volume I section entitled PATWAS CONTACTS AND FSS/WSO BRIEFINGS is based. The information presented reflects the summation of various categories of FAA/WSO data and the aircraft operations data for the eight airports: Newark, Morristown, Teterboro, Farmingdale, White Plains, Islip, JFK, and La Guardia. The detail is presented here to facilitate a replication of the analysis and interpretation of the data presented in volume I.

The table 2-1 data for 1971 were derived, since only the total for the year was available. January 1970 was also derived, since the actual value was unavailable. The method employed to obtain the missing values by interpolation from known data was developed from a discussion in Winer, "Statistical Principles in Experimental Design," McGraw-Hill, 1962, pp. 281-283. Myers, "Fundamentals of Experimental Design," Allyn and Bacon, 2nd ed., 1972, p. 171 and Goulden "Methods of Statistical Analysis," Wiley, 2nd ed., 1952, p. 318 also discuss methods of dealing with missing data. Although the source was not employed in this instance, Finn's "A General Model for Multivariate Analysis," Holt, Rinehart & Winston, 1974, practice of estimating missing data points without specific comment regarding methodology testifies to the general acceptability of this device for enhancing the value of a body of data.

TABLE 2-1. NUMBER OF BASIC PATWAS CONTACTS

Month	Year						
	1970	1971	1972	1973	1974	1975	1976
January	(2,607)*	(2,856)	3,965	3,275	3,279	3,990	1,466
February	2,523	(2,978)	4,101	3,632	3,499	3,665	1,146
March	2,817	(3,046)	3,498	4,097	4,029	3,844	1,329
April	2,528	(2,687)	2,809	3,469	3,571	4,066	1,222
May	2,723	(2,940)	2,868	4,490	3,526	4,177	1,507
June	2,888	(3,554)	4,492	4,958	4,182	4,754	1,745
July	3,409	(3,323)	3,300	4,613	3,926	4,516	1,359
August	2,621	(2,960)	2,723	4,331	4,068	2,961	-
September	2,425	(2,764)	3,025	3,621	3,722	2,226	-
October	2,539	(2,553)	3,338	2,760	3,013	1,832	-
November	2,316	(2,570)	3,685	2,848	2,949	1,624	-
December	2,750	(2,768)	3,861	3,082	2,927	1,709	-

* All numbers in parentheses are derived. Actual data are missing.

Before | After

Trial PATWAS Activation

TABLE 2-2. NUMBER OF LA GUARDIA TELEPHONE PILOT BRIEFINGS

Month	Year				
	1972	1973	1974	1975	1976
January	-	1,354	1,712	1,606	1,233
February	-	1,438	1,626	1,362	1,038
March	-	1,660	1,853	1,554	1,368
April	1,467	1,744	1,729	1,425	1,126
May	1,614	2,257	1,972	1,896	1,443
June	2,344	2,687	2,320	2,177	1,698
July	1,978	2,358	2,017	2,270	1,720
August	1,648	2,248	2,364	1,824	-
September	1,947	1,750	1,816	1,476	-
October	1,664	1,662	1,381	1,446	-
November	1,860	1,665	1,637	1,382	-
December	2,106	1,585	1,520	1,281	-

Before | After

Trial PATWAS Activation

TABLE 2-3. NUMBER OF LA GUARDIA PERSONAL PILOT BRIEFINGS

Month	Year						
	1970	1971	1972	1973	1974	1975	1976
January	-	757	722	582	768	576	565
February	-	766	777	604	618	535	465
March	-	845	876	669	622	466	645
April	-	711	659	549	606	493	466
May	-	815	677	633	752	569	544
June	-	883	859	725	692	623	642
July	736	786	568	427	508	505	463
August	626	736	704	468	546	444	-
September	822	753	627	511	519	526	-
October	854	741	632	613	509	544	-
November	715	728	603	630	610	542	-
December	753	895	783	718	595	540	-
	Before					After	

Trial PATWAS Activation

TABLE 2-4. NUMBER OF ISLIP PILOT BRIEFINGS

Month	Year				
	1972	1973	1974	1975	1976
January	16,775	14,895	14,126	11,617	10,970
February	15,024	15,060	14,209	10,286	9,920
March	14,975	17,244	16,507	11,488	13,175
April	17,959	17,392	15,438	11,793	13,759
May	19,160	18,445	15,567	14,812	15,508
June	20,112	19,848	16,042	17,803	16,602
July	18,861	20,278	16,378	16,999	18,391
August	18,602	21,090	15,523	14,740	-
September	17,325	15,496	14,357	12,824	-
October	15,720	14,320	13,244	13,446	-
November	17,294	13,664	11,959	12,551	-
December	16,163	12,618	12,758	14,333	-
	Before			After	

Trial PATWAS Activation

TABLE 2-5. NUMBER OF TETERBORO PILOT BRIEFINGS

Month	Year						
	1970	1971	1972	1973	1974	1975	1976
January	11,440	10,668	11,447	10,593	12,340	12,068	10,236
February	11,791	10,802	10,238	11,012	11,245	11,412	9,992
March	14,951	12,137	12,649	12,651	14,375	13,126	12,248
April	13,414	11,732	11,108	11,775	13,317	12,468	11,131
May	16,322	13,239	13,057	14,784	14,889	14,333	13,074
June	15,968	14,447	17,138	16,317	16,969	15,042	13,923
July	16,511	14,844	15,851	15,895	14,878	13,847	14,479
August	14,688	14,153	13,359	16,000	16,057	12,694	-
September	13,560	14,987	12,998	13,470	14,855	11,458	-
October	14,656	15,270	12,132	13,260	13,092	11,962	-
November	13,368	12,533	12,125	13,106	12,477	12,505	-
December	11,602	11,649	11,884	11,539	11,884	11,568	-
	Before					After	
	Trial PATWAS Activation						

TABLE 2-6. NUMBER OF TRIAL PATWAS CONTACTS

Month	Year						
	-	-	-	-	-	1975	1976
January						-	14,724
February						-	11,882
March						-	12,592
April						-	10,950
May						-	12,652
June						-	16,547
July						1,148	15,031
August						6,101	-
September						5,312	-
October						5,668	-
November						5,535	-
December						19,365	-

TABLE 2-7. GENERAL AVIATION ITINERANT OPERATIONS
EWR, MMU, TEB, FRG, HPN, ISP, JFK, LGA

Month	1970	1971	1972	1973	1974	1975	1976
January	51,252	49,637	48,549	56,784	46,235	49,087	46,546
February	50,991	47,237	38,444	50,652	45,030	49,948	52,784
March	61,979	57,744	52,607	51,671	53,367	57,181	59,293
April	66,213	65,853	60,182	59,330	64,653	64,265	65,483
May	69,422	66,674	61,308	62,778	66,914	68,434	66,945
June	69,147	74,294	53,248	57,479	63,620	64,772	66,987
July	64,597	73,511	65,391	68,089	72,622	67,058	
August	72,004	74,043	68,970	63,608	67,234	67,334	
September	63,511	62,121	56,712	66,477	61,468	62,712	
October	63,174	63,081	65,217	69,574	74,275	70,231	
November	55,363	58,229	53,384	59,113	60,004	66,600	
December	46,624	52,535	36,866	46,329	51,289	52,038	
TOTAL	734,277	744,959	660,878	711,884	726,711	739,660	358,038

MULTIVARIATE ANALYSIS OF VARIANCE
(QUESTION 10--COMPARISON BETWEEN BASIC PATWAS AND TRIAL PATWAS)

This section contains the results of the multivariate analysis of variance of question 10 using the responses from the initial and follow-up returns. The highlights of the findings are presented in the volume I section entitled PILOT SURVEY.

UNIVARIATE AND MULTIVARIATE ANALYSIS OF VARIANCE, COVARIANCE, AND REGRESSION

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PROBLEM

ANALYSIS OF PATWAS QUESTIONNAIRE - QUESTION 10

PAGE 1

INPUT PARAMETERS
==========

PAGE 2

NUMBER OF VARIABLES IN INPUT VECTORS= 17

NUMBER OF FACTORS IN DESIGN= 8

NUMBER OF LEVELS OF FACTOR 1 (L/RATING) = 2
NUMBER OF LEVELS OF FACTOR 2 (ENGINES) = 2
NUMBER OF LEVELS OF FACTOR 3 (TOTALFLY) = 2
NUMBER OF LEVELS OF FACTOR 4 (ANUALFLY) = 2
NUMBER OF LEVELS OF FACTOR 5 (GADO) = 2
NUMBER OF LEVELS OF FACTOR 6 (POWERPNT) = 2
NUMBER OF LEVELS OF FACTOR 7 (OLD USE) = 2
NUMBER OF LEVELS OF FACTOR 8 (NEW USE) = 2

INPUT IS FROM CARDS. DATA OPTION 2

MINIMAL PAGE SPACING WILL BE USED

FORMAT OF DATA
(56X,17F1.0)

FIRST OBSERVATION
SUBJECT 1 , CELL 1 1 1 1 1 1 1 1
2.0000 2.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000
3.0000 3.0000 4.0000 4.0000 3.0000 3.0000 3.0000 3.0000
3.0000

CELL IDENTIFICATION AND FREQUENCIES

PAGE 3

CELL	FACTOR LEVELS								N
	L/RATING	ENGINES	TOTALFLY	ANUALFLY	GADO	POWERPNT	OLD USE	NEW USE	
1	1	1	1	1	1	1	1	1	6
EMPTY	1	1	1	1	1	1	1	2	0
2	1	1	1	1	1	1	2	1	1
3	1	1	1	1	1	1	2	2	2
EMPTY	1	1	1	1	1	2	1	1	0
EMPTY	1	1	1	1	1	2	1	2	0
EMPTY	1	1	1	1	1	2	2	1	0
EMPTY	1	1	1	1	1	2	2	2	0

4	1	1	1	1	2	1	1	1	2
EMPTY	1	1	1	1	2	1	1	2	0
EMPTY	1	1	1	1	2	1	2	1	0
5	1	1	1	1	2	1	2	2	1
EMPTY	1	1	1	1	2	2	1	1	0
EMPTY	1	1	1	1	2	2	1	2	0
EMPTY	1	1	1	1	2	2	2	1	0
EMPTY	1	1	1	1	2	2	2	2	0
6	1	1	1	2	1	1	1	1	5
EMPTY	1	1	1	2	1	1	1	2	0
7	1	1	1	2	1	1	2	1	1
8	1	1	1	2	1	1	2	2	1
EMPTY	1	1	1	2	1	2	1	1	0
EMPTY	1	1	1	2	1	2	1	2	0
EMPTY	1	1	1	2	1	2	2	1	0
EMPTY	1	1	1	2	1	2	2	2	0
9	1	1	1	2	2	1	1	1	2
EMPTY	1	1	1	2	2	1	1	2	0
10	1	1	1	2	2	1	2	1	1
11	1	1	1	2	2	1	2	2	1
EMPTY	1	1	1	2	2	2	1	1	0
EMPTY	1	1	1	2	2	2	1	2	0
EMPTY	1	1	1	2	2	2	2	1	0
EMPTY	1	1	1	2	2	2	2	2	0
12	1	1	2	1	1	1	1	1	10
13	1	1	2	1	1	1	1	2	3
14	1	1	2	1	1	1	2	1	5
EMPTY	1	1	2	1	1	1	2	2	0
EMPTY	1	1	2	1	1	2	1	1	0
EMPTY	1	1	2	1	1	2	1	2	0
EMPTY	1	1	2	1	1	2	2	1	0
EMPTY	1	1	2	1	1	2	2	2	0
15	1	1	2	1	2	1	1	1	5
16	1	1	2	1	2	1	1	2	1
17	1	1	2	1	2	1	2	1	1
18	1	1	2	1	2	1	2	2	1
19	1	1	2	1	2	2	1	1	1
EMPTY	1	1	2	1	2	2	1	2	0
EMPTY	1	1	2	1	2	2	2	1	0
EMPTY	1	1	2	1	2	2	2	2	0
20	1	1	2	2	1	1	1	1	12
21	1	1	2	2	1	1	1	2	5
22	1	1	2	2	1	1	2	1	3
23	1	1	2	2	1	1	2	2	14
EMPTY	1	1	2	2	1	2	1	1	0
EMPTY	1	1	2	2	1	2	1	2	0
EMPTY	1	1	2	2	1	2	2	1	0
EMPTY	1	1	2	2	1	2	2	2	0
24	1	1	2	2	2	1	1	1	11
25	1	1	2	2	2	1	1	2	5
EMPTY	1	1	2	2	2	1	2	1	0
26	1	1	2	2	2	1	2	2	6
27	1	1	2	2	2	2	1	1	2
EMPTY	1	1	2	2	2	2	1	2	0
EMPTY	1	1	2	2	2	2	2	1	0
EMPTY	1	1	2	2	2	2	2	2	0
28	1	2	1	1	1	1	1	1	215
29	1	2	1	1	1	1	1	2	114
30	1	2	1	1	1	1	2	1	33
31	1	2	1	1	1	1	2	2	69
32	1	2	1	1	1	2	1	1	2

33	1	2	1	1	1	2	1	2	1
EMPTY	1	2	1	1	1	2	2	1	0
EMPTY	1	2	1	1	1	2	2	2	0
34	1	2	1	1	2	1	1	1	123
35	1	2	1	1	2	1	1	2	39
36	1	2	1	1	2	1	2	1	22
37	1	2	1	1	2	1	2	2	28
EMPTY	1	2	1	1	2	2	1	1	0
EMPTY	1	2	1	1	2	2	1	2	0
EMPTY	1	2	1	1	2	2	2	1	0
38	1	2	1	1	2	2	2	2	1
39	1	2	1	2	1	1	1	1	58
40	1	2	1	2	1	1	1	2	116
41	1	2	1	2	1	1	2	1	5
42	1	2	1	2	1	1	2	2	41
EMPTY	1	2	1	2	1	2	1	1	0
EMPTY	1	2	1	2	1	2	1	2	0
EMPTY	1	2	1	2	1	2	2	1	0
EMPTY	1	2	1	2	1	2	2	2	0
43	1	2	1	2	2	1	1	1	47
44	1	2	1	2	2	1	1	2	50
45	1	2	1	2	2	1	2	1	7
46	1	2	1	2	2	1	2	2	30
EMPTY	1	2	1	2	2	2	1	1	0
EMPTY	1	2	1	2	2	2	1	2	0
EMPTY	1	2	1	2	2	2	2	1	0
EMPTY	1	2	1	2	2	2	2	2	0
47	1	2	2	1	1	1	1	1	32
48	1	2	2	1	1	1	1	2	17
49	1	2	2	1	1	1	2	1	11
50	1	2	2	1	1	1	2	2	15
51	1	2	2	1	1	2	1	1	2
EMPTY	1	2	2	1	1	2	1	2	0
EMPTY	1	2	2	1	1	2	2	1	0
52	1	2	2	1	1	2	2	2	1
53	1	2	2	1	2	1	1	1	22
54	1	2	2	1	2	1	1	2	13
55	1	2	2	1	2	1	2	1	5
56	1	2	2	1	2	1	2	2	4
EMPTY	1	2	2	1	2	2	1	1	0
EMPTY	1	2	2	1	2	2	1	2	0
EMPTY	1	2	2	1	2	2	2	1	0
EMPTY	1	2	2	1	2	2	2	2	0
57	1	2	2	2	1	1	1	1	48
58	1	2	2	2	1	1	1	2	32
59	1	2	2	2	1	1	2	1	11
60	1	2	2	2	1	1	2	2	38
61	1	2	2	2	1	2	1	1	2
62	1	2	2	2	1	2	1	2	1
EMPTY	1	2	2	2	1	2	2	1	0
EMPTY	1	2	2	2	1	2	2	2	0
63	1	2	2	2	2	1	1	1	30
64	1	2	2	2	2	1	1	2	18
65	1	2	2	2	2	1	2	1	10
66	1	2	2	2	2	1	2	2	20
EMPTY	1	2	2	2	2	2	1	1	0
EMPTY	1	2	2	2	2	2	1	2	0
EMPTY	1	2	2	2	2	2	2	1	0
EMPTY	1	2	2	2	2	2	2	2	0
67	2	1	1	1	1	1	1	1	1
EMPTY	2	1	1	1	1	1	1	2	0

68	2	1	1	1	1	1	2	1	1
69	2	1	1	1	1	1	2	2	2
EMPTY	2	1	1	1	1	2	1	1	0
EMPTY	2	1	1	1	1	2	1	2	0
EMPTY	2	1	1	1	1	2	2	1	0
EMPTY	2	1	1	1	1	2	2	2	0
70	2	1	1	1	2	1	1	1	2
EMPTY	2	1	1	1	2	1	1	2	0
71	2	1	1	1	2	1	2	1	2
EMPTY	2	1	1	1	2	1	2	2	0
EMPTY	2	1	1	1	2	2	1	1	0
EMPTY	2	1	1	1	2	2	1	2	0
EMPTY	2	1	1	1	2	2	2	1	0
EMPTY	2	1	1	1	2	2	2	2	0
72	2	1	1	2	1	1	1	1	4
73	2	1	1	2	1	1	1	2	4
EMPTY	2	1	1	2	1	1	2	1	0
74	2	1	1	2	1	1	2	2	5
EMPTY	2	1	1	2	1	2	1	1	0
EMPTY	2	1	1	2	1	2	1	2	0
EMPTY	2	1	1	2	1	2	2	1	0
EMPTY	2	1	1	2	1	2	2	2	0
75	2	1	1	2	2	1	1	1	3
76	2	1	1	2	2	1	1	2	2
EMPTY	2	1	1	2	2	1	2	1	0
77	2	1	1	2	2	1	2	2	1
EMPTY	2	1	1	2	2	2	1	1	0
EMPTY	2	1	1	2	2	2	1	2	0
EMPTY	2	1	1	2	2	2	2	1	0
EMPTY	2	1	1	2	2	2	2	2	0
78	2	1	2	1	1	1	1	1	12
79	2	1	2	1	1	1	1	2	10
80	2	1	2	1	1	1	2	1	9
81	2	1	2	1	1	1	2	2	12
82	2	1	2	1	1	2	1	1	3
83	2	1	2	1	1	2	1	2	1
84	2	1	2	1	1	2	2	1	1
EMPTY	2	1	2	1	1	2	2	2	0
85	2	1	2	1	2	1	1	1	12
86	2	1	2	1	2	1	1	2	3
87	2	1	2	1	2	1	2	1	3
88	2	1	2	1	2	1	2	2	4
89	2	1	2	1	2	2	1	1	2
90	2	1	2	1	2	2	1	2	2
EMPTY	2	1	2	1	2	2	2	1	0
EMPTY	2	1	2	1	2	2	2	2	0
91	2	1	2	2	1	1	1	1	71
92	2	1	2	2	1	1	1	2	78
93	2	1	2	2	1	1	2	1	27
94	2	1	2	2	1	1	2	2	92
95	2	1	2	2	1	2	1	1	18
96	2	1	2	2	1	2	1	2	17
97	2	1	2	2	1	2	2	1	5
98	2	1	2	2	1	2	2	2	10
99	2	1	2	2	2	1	1	1	51
100	2	1	2	2	2	1	1	2	45
101	2	1	2	2	2	1	2	1	17
102	2	1	2	2	2	1	2	2	54
103	2	1	2	2	2	2	1	1	26
104	2	1	2	2	2	2	1	2	13
105	2	1	2	2	2	2	2	1	5

106	2	1	2	2	2	2	2	2	14
107	2	2	1	1	1	1	1	1	2
108	2	2	1	1	1	1	1	2	1
109	2	2	1	1	1	1	2	1	4
110	2	2	1	1	1	1	2	2	9
EMPTY	2	2	1	1	1	2	1	1	0
EMPTY	2	2	1	1	1	2	1	2	0
EMPTY	2	2	1	1	1	2	2	1	0
EMPTY	2	2	1	1	1	2	2	2	0
111	2	2	1	1	2	1	1	1	11
112	2	2	1	1	2	1	1	2	4
113	2	2	1	1	2	1	2	1	4
114	2	2	1	1	2	1	2	2	4
EMPTY	2	2	1	1	2	2	1	1	0
EMPTY	2	2	1	1	2	2	1	2	0
EMPTY	2	2	1	1	2	2	2	1	0
EMPTY	2	2	1	1	2	2	2	2	0
115	2	2	1	2	1	1	1	1	14
116	2	2	1	2	1	1	1	2	20
117	2	2	1	2	1	1	2	1	4
118	2	2	1	2	1	1	2	2	14
119	2	2	1	2	1	2	1	1	1
EMPTY	2	2	1	2	1	2	1	2	0
EMPTY	2	2	1	2	1	2	2	1	0
EMPTY	2	2	1	2	1	2	2	2	0
120	2	2	1	2	2	1	1	1	8
121	2	2	1	2	2	1	1	2	10
122	2	2	1	2	2	1	2	1	4
123	2	2	1	2	2	1	2	2	12
EMPTY	2	2	1	2	2	2	1	1	0
EMPTY	2	2	1	2	2	2	1	2	0
EMPTY	2	2	1	2	2	2	2	1	0
EMPTY	2	2	1	2	2	2	2	2	0
124	2	2	2	1	1	1	1	1	17
125	2	2	2	1	1	1	1	2	14
126	2	2	2	1	1	1	2	1	6
127	2	2	2	1	1	1	2	2	15
EMPTY	2	2	2	1	1	2	1	1	0
EMPTY	2	2	2	1	1	2	1	2	0
EMPTY	2	2	2	1	1	2	2	1	0
EMPTY	2	2	2	1	1	2	2	2	0
128	2	2	2	1	2	1	1	1	2
129	2	2	2	1	2	1	1	2	3
130	2	2	2	1	2	1	2	1	5
131	2	2	2	1	2	1	2	2	7
EMPTY	2	2	2	1	2	2	1	1	0
EMPTY	2	2	2	1	2	2	1	2	0
EMPTY	2	2	2	1	2	2	2	1	0
EMPTY	2	2	2	1	2	2	2	2	0
132	2	2	2	2	1	1	1	1	35
133	2	2	2	2	1	1	1	2	43
134	2	2	2	2	1	1	2	1	13
135	2	2	2	2	1	1	2	2	73
136	2	2	2	2	1	2	1	1	2
137	2	2	2	2	1	2	1	2	1
EMPTY	2	2	2	2	1	2	2	1	0
EMPTY	2	2	2	2	1	2	2	2	0
138	2	2	2	2	2	1	1	1	15
139	2	2	2	2	2	1	1	2	22
140	2	2	2	2	2	1	2	1	16
141	2	2	2	2	2	1	2	2	36

142	2	2	2	2	2	2	1	1	3
EMPTY	2	2	2	2	2	2	1	2	0
EMPTY	2	2	2	2	2	2	2	1	0
EMPTY	2	2	2	2	2	2	2	2	0

TOTAL N= 2587.

114 NULL SUBCLASS(ES).

OBSERVED CELL MEANS --- ROWS ARE CELLS-COLUMNS ARE VARIABLES

	1 AMTNFO	2 ACCNFC	3 SUPCFC	4 SATERF	5 CRDNFO	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PMPCON
1	3.333333	3.500000	3.666667	3.666667	3.333333	3.500000	3.500000	3.500000	3.333333	3.166667
2	4.000000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3.000000	3.000000	3.500000	4.000000	4.000000	3.500000	4.000000	4.000000	3.000000	3.000000
4	4.000000	4.000000	3.500000	4.000000	3.500000	4.000000	4.000000	3.500000	3.500000	3.500000
5	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
6	3.000000	2.800000	3.400000	2.800000	2.800000	2.800000	2.200000	2.200000	2.800000	2.600000
7	4.000000	4.000000	3.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000
8	4.000000	4.000000	4.000000	4.000000	3.000000	4.000000	3.000000	3.000000	3.000000	3.000000
9	2.500000	2.000000	3.500000	3.000000	3.000000	1.500000	2.000000	2.000000	1.500000	2.000000
10	4.000000	3.000000	4.000000	4.000000	3.000000	2.000000	2.000000	2.000000	3.000000	2.000000
11	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000
12	3.700000	3.700000	3.800000	4.000000	3.900000	3.700000	2.900000	3.400000	3.500000	3.800000
13	4.000000	4.000000	3.666667	3.666667	3.666667	3.666667	4.000000	3.333333	4.000000	4.000000
14	3.800000	3.800000	3.800000	3.600000	3.200000	3.800000	2.600000	2.400000	2.800000	3.200000
15	3.200000	3.200000	3.800000	3.000000	3.200000	3.600000	3.800000	3.200000	3.000000	3.200000
16	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000
17	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000
18	4.000000	3.000000	4.000000	3.000000	4.000000	4.000000	3.000000	3.000000	3.000000	3.000000
19	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	3.000000	3.000000	4.000000	3.000000
20	3.500000	3.416667	3.416667	3.333333	3.333333	2.833333	3.250000	3.166667	3.166667	3.333333
21	3.200000	3.200000	3.400000	3.200000	3.200000	3.000000	2.200000	3.000000	2.600000	3.200000
22	3.333333	3.666667	3.333333	3.666667	3.666667	3.666667	3.333333	3.333333	3.333333	3.000000
23	3.500000	3.428571	3.500000	3.642857	3.642857	3.714286	3.357143	3.214286	3.571429	3.642857
24	2.909091	3.090909	2.363636	2.636364	2.363636	2.363636	2.454545	2.818182	2.636364	2.909091
25	3.800000	3.600000	3.600000	4.000000	3.400000	3.400000	3.000000	2.800000	3.000000	2.800000
26	3.666667	3.000000	3.000000	3.000000	3.000000	3.500000	3.333333	3.166667	3.166667	3.500000
27	2.000000	1.500000	1.500000	2.000000	2.000000	2.000000	1.500000	1.500000	1.500000	3.500000
28	3.516279	3.223256	3.400000	3.497674	3.283721	3.279070	3.213953	3.130233	3.106977	3.232558
29	3.754386	3.429825	3.517544	3.587719	3.447368	3.350877	3.228070	3.254386	3.201754	3.421053
30	3.515152	3.212121	3.515152	3.545455	3.272727	3.030303	3.242424	3.090909	3.121212	3.333333
31	3.666667	3.362319	3.521739	3.666667	3.318841	3.536232	3.115942	3.144928	3.173913	3.318841
32	4.000000	3.000000	3.500000	4.000000	3.500000	4.000000	3.000000	3.500000	3.000000	3.500000
33	4.000000	3.000000	4.000000	4.000000	3.000000	2.000000	4.000000	3.000000	3.000000	4.000000
34	3.495935	3.365854	3.447154	3.479675	3.211382	3.235772	3.235772	3.105691	3.227642	3.260163
35	3.435857	3.333333	3.358974	3.666667	3.358974	3.256410	3.179487	3.179487	3.230769	3.333333
36	3.454545	3.363636	3.545455	3.363636	3.409091	3.363636	3.363636	3.500000	3.500000	3.727273
37	3.750000	3.214286	3.678571	3.750000	3.428571	3.500000	3.071429	3.035714	3.107143	3.250000
38	4.000000	4.000000	4.000000	4.000000	3.000000	2.000000	4.000000	3.000000	4.000000	4.000000
39	3.326531	3.112245	3.285714	3.306122	3.224490	3.193878	3.204082	3.071429	3.112245	3.244898
40	3.741379	3.413793	3.560345	3.672414	3.448276	3.456897	3.215517	3.258621	3.198276	3.482759
41	3.400000	2.400000	3.400000	3.400000	3.400000	3.400000	3.200000	3.400000	3.200000	3.400000
42	3.756098	3.414634	3.536585	3.682927	3.268293	3.487805	2.902439	3.024390	2.951220	3.195122

43	3.510638	3.361702	3.276596	3.510638	3.319149	3.361702	3.127660	3.148936	3.063830	3.063830
44	3.700000	3.200000	3.360000	3.540000	3.160000	3.160000	2.860000	3.060000	2.960000	2.980000
45	3.285714	3.000000	3.285714	3.142857	3.142857	2.714286	2.857143	2.857143	3.000000	2.714286
46	3.666667	3.466667	3.566667	3.666667	3.366667	3.333333	3.166667	3.133333	3.300000	3.300000
47	3.218750	3.312500	3.125000	3.000000	3.125000	2.968750	3.000000	2.968750	2.906250	3.000000
48	3.529412	3.647059	3.176471	3.529412	3.176471	3.470588	3.470588	3.352941	3.352941	3.529412
49	3.636364	3.363636	3.181818	3.545455	3.090909	3.363636	3.272727	3.454545	3.454545	3.181818
50	3.933333	3.666667	3.733333	3.666667	3.533333	3.733333	3.466667	3.466667	3.533333	3.600000

OBSERVED CELL MEANS --- ROWS ARE CELLS-COLUMNS ARE VARIABLES

	1 AMTNFO	2 ACCNFC	3 SUPOFC	4 SATPRF	5 ORDNFO	6 MESLEN	7 QUALVY	8 AMTAYZ	9 SPKGRA	10 PMPCON
51	3.500000	3.000000	3.000000	3.000000	2.000000	3.000000	3.500000	3.000000	3.500000	3.000000
52	4.000000	4.000000	4.000000	4.000000	4.000000	3.000000	3.000000	3.000000	4.000000	4.000000
53	3.454545	3.000000	3.090909	3.318182	3.181818	3.409091	3.454545	3.272727	3.318182	3.136364
54	3.692308	3.384615	3.307692	3.461538	3.307692	3.384615	3.461538	2.846154	3.153846	3.000000
55	3.200000	3.600000	3.400000	3.400000	3.200000	3.200000	3.400000	3.400000	3.400000	3.400000
56	3.250000	3.500000	3.250000	3.500000	3.000000	3.250000	3.000000	3.000000	3.000000	3.500000
57	3.354167	3.145833	3.416667	3.437500	3.229167	3.208333	3.229167	3.166667	3.104167	3.208333
58	3.593750	3.531250	3.375000	3.656250	3.187500	3.218750	3.187500	3.281250	3.000000	3.187500
59	3.545455	2.818182	3.363636	3.818182	3.545455	3.545455	3.181818	3.272727	3.000000	3.454545
60	3.526316	3.263158	3.447368	3.500000	3.394737	3.315789	3.263158	3.263158	3.236842	3.157895
61	3.500000	3.000000	3.500000	3.500000	4.000000	3.500000	3.000000	3.000000	3.000000	3.500000
62	3.000000	3.000000	3.000000	4.000000	4.000000	4.000000	4.000000	4.000000	3.000000	3.000000
63	3.000000	3.033333	3.033333	2.900000	2.933333	3.000000	3.033333	3.033333	3.133333	3.000000
64	3.444444	3.277778	3.611111	3.666667	3.000000	2.777778	3.166667	3.055556	2.722222	2.944444
65	3.700000	3.400000	3.400000	3.400000	3.500000	3.100000	3.600000	3.500000	3.100000	3.000000
66	3.600000	3.200000	3.350000	3.350000	3.350000	3.300000	3.100000	3.250000	3.100000	3.100000
67	4.000000	3.000000	4.000000	3.000000	4.000000	3.000000	3.000000	3.000000	4.000000	3.000000
68	4.000000	3.000000	3.000000	3.000000	3.000000	3.000000	4.000000	4.000000	3.000000	4.000000
69	4.000000	3.500000	3.500000	3.500000	3.500000	3.500000	3.000000	2.500000	3.500000	3.500000
70	4.000000	3.500000	3.000000	3.500000	3.500000	3.000000	3.000000	3.000000	3.000000	4.000000
71	4.000000	4.000000	3.500000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000
72	3.500000	3.750000	3.750000	3.500000	2.500000	3.500000	3.500000	3.250000	3.250000	3.250000
73	3.750000	3.750000	4.000000	4.000000	3.500000	3.750000	3.500000	3.000000	2.750000	2.750000
74	3.600000	3.200000	3.400000	3.600000	3.200000	3.400000	3.200000	3.200000	3.400000	3.400000
75	4.000000	4.000000	3.666667	3.333333	3.000000	3.333333	3.333333	3.333333	2.666667	2.666667
76	4.000000	4.000000	3.500000	3.500000	3.500000	3.500000	3.500000	3.000000	3.500000	2.500000
77	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	3.000000	3.000000	3.000000	4.000000
78	3.500000	3.833333	3.166667	3.166667	3.000000	3.000000	3.083333	2.916667	3.333333	2.833333
79	3.600000	3.200000	3.800000	3.500000	3.500000	3.300000	3.100000	3.200000	3.200000	3.300000
80	3.111111	3.000000	3.222222	3.222222	3.333333	2.555556	2.666667	2.777778	2.666667	3.222222
81	3.333333	3.416667	3.250000	3.500000	3.250000	2.833333	3.333333	3.333333	3.083333	3.333333
82	3.000000	3.333333	3.333333	3.333333	3.333333	3.000000	3.000000	3.000000	3.333333	3.333333
83	4.000000	3.000000	4.000000	4.000000	4.000000	2.000000	3.000000	3.000000	3.000000	3.000000
84	2.000000	3.000000	4.000000	4.000000	3.000000	2.000000	3.000000	3.000000	3.000000	4.000000
85	3.166667	2.833333	3.166667	3.166667	2.666667	3.166667	3.000000	2.750000	2.750000	3.166667
86	4.000000	2.666667	2.333333	2.666667	2.333333	2.666667	2.333333	2.333333	2.333333	2.666667
87	4.000000	3.333333	3.333333	4.000000	3.666667	3.666667	4.000000	3.666667	3.333333	3.666667
88	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	3.750000	3.250000	3.500000	3.500000
89	3.500000	3.500000	3.500000	3.500000	3.500000	3.500000	4.000000	4.000000	3.500000	4.000000
90	3.000000	3.500000	3.500000	4.000000	4.000000	4.000000	3.500000	3.500000	3.500000	4.000000
91	3.563380	3.253521	3.380282	3.492958	3.140845	3.042254	3.042254	3.014085	3.042254	3.295775
92	3.666667	3.423077	3.500000	3.602564	3.384615	3.461538	3.294872	3.256410	3.243590	3.371795
93	3.370370	3.259259	3.296296	3.518519	3.148148	3.222222	3.222222	3.370370	3.185185	3.370370
94	3.815217	3.478261	3.663043	3.793478	3.554348	3.445652	3.326087	3.315217	3.282609	3.456522

95	3.611111	3.333333	3.333333	3.555556	3.222222	3.388889	3.111111	3.333333	3.333333	3.222222
96	3.588235	3.470588	3.235294	3.529412	2.882353	2.941176	3.176471	3.294118	3.117647	3.117647
97	2.800000	2.200000	3.200000	3.200000	2.800000	3.200000	3.000000	3.200000	2.600000	3.000000
98	3.000000	3.000000	3.200000	3.200000	3.300000	3.400000	2.900000	2.900000	3.000000	3.100000
99	3.509804	3.235294	3.176471	3.156863	3.156863	3.078431	3.098039	3.196078	3.058824	3.156863
100	3.755556	3.466667	3.644444	3.600000	3.488889	3.555556	3.222222	3.222222	3.333333	3.422222

OBSERVED CELL MEANS --- ROWS ARE CELLS-COLUMNS ARE VARIABLES

	1 AMTNFO	2 ACCNFO	3 SUPDEC	4 SATBRF	5 CRDNFO	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PMPCON
101	3.529412	3.235294	3.294118	3.588235	3.470588	3.411765	3.411765	3.411765	3.352941	3.235294
102	3.796296	3.500000	3.629630	3.740741	3.407407	3.666667	3.518519	3.481481	3.351852	3.592593
103	3.307692	3.230769	3.461538	3.307692	3.230769	3.153846	3.153846	3.153846	3.153846	2.961538
104	3.076923	3.076923	3.384615	3.230769	3.461538	3.153846	3.153846	3.076923	3.307692	3.076923
105	3.200000	3.200000	2.800000	3.000000	3.200000	2.200000	2.800000	3.000000	2.800000	3.400000
106	3.714286	3.642857	3.357143	3.785714	3.642857	3.500000	3.500000	3.428571	3.285714	3.500000
107	1.500000	2.000000	1.500000	1.500000	2.000000	1.500000	3.000000	3.000000	3.000000	3.500000
108	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000
109	3.750000	3.250000	3.000000	3.750000	2.500000	2.500000	2.250000	3.000000	2.000000	3.500000
110	3.888889	3.666667	3.888889	3.888889	3.444444	3.222222	3.333333	3.666667	3.222222	3.666667
111	3.636364	3.272727	2.818182	3.181818	3.000000	3.181818	3.454545	3.363636	3.454545	3.454545
112	4.000000	3.750000	4.000000	4.000000	3.750000	3.750000	3.500000	3.500000	3.500000	3.500000
113	4.000000	3.500000	3.750000	4.000000	3.500000	3.750000	3.750000	3.500000	3.500000	3.750000
114	4.000000	3.250000	3.750000	4.000000	3.500000	3.750000	2.750000	3.250000	3.500000	3.250000
115	3.714286	3.571429	3.500000	3.785714	3.500000	3.571429	3.500000	3.428571	3.285714	3.714286
116	3.800000	3.550000	3.600000	3.750000	3.500000	3.500000	3.450000	3.550000	3.400000	3.250000
117	4.000000	3.750000	4.000000	3.750000	3.500000	3.000000	2.500000	2.500000	2.500000	3.000000
118	3.714286	3.428571	3.857143	3.857143	3.428571	3.857143	3.142857	3.000000	3.000000	3.285714
119	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000
120	3.625000	3.375000	3.375000	3.500000	3.250000	3.625000	3.625000	3.625000	3.500000	3.500000
121	3.800000	3.400000	3.700000	3.900000	3.600000	3.800000	3.400000	3.600000	3.300000	3.200000
122	4.000000	4.000000	4.000000	4.000000	3.750000	3.250000	3.250000	3.000000	2.750000	3.500000
123	3.833333	3.166667	3.750000	3.666667	3.333333	3.416667	3.416667	3.250000	3.250000	3.166667
124	3.294118	3.000000	3.705882	3.176471	3.000000	2.647059	2.764706	2.588235	2.705882	2.764706
125	3.500000	3.000000	3.000000	3.214286	3.071429	3.000000	3.071429	3.000000	2.714286	3.357143
126	3.666667	2.666667	3.666667	3.833333	3.333333	3.333333	3.500000	3.500000	2.833333	3.500000
127	3.733333	3.733333	3.666667	3.800000	3.533333	3.533333	3.333333	3.266667	3.066667	3.333333
128	4.000000	2.000000	3.500000	4.000000	3.500000	3.500000	3.000000	3.000000	3.500000	3.000000
129	4.000000	3.333333	2.333333	4.000000	3.333333	3.333333	3.000000	3.333333	3.000000	3.333333
130	3.800000	2.600000	3.600000	3.800000	3.800000	3.800000	3.600000	3.400000	3.400000	3.600000
131	3.857143	3.285714	3.428571	4.000000	3.571429	3.714286	3.285714	3.285714	3.000000	3.142857
132	3.589744	3.333333	3.358974	3.692308	3.333333	3.333333	3.256410	3.128205	3.128205	3.282051
133	3.720930	3.372093	3.627907	3.790698	3.465116	3.651163	3.488372	3.348837	3.325581	3.558140
134	4.000000	3.538462	3.538462	3.769231	3.615385	3.692308	3.769231	3.538462	3.384615	3.615385
135	3.794521	3.493151	3.616438	3.753425	3.561644	3.616438	3.397260	3.260274	3.301370	3.452055
136	3.500000	2.500000	3.000000	3.000000	3.000000	2.500000	3.500000	3.500000	3.500000	3.500000
137	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000
138	3.789474	3.210526	3.421053	3.842105	3.368421	3.631579	3.473684	3.421053	3.315789	3.368421
139	3.681818	3.590909	3.681818	3.636364	3.409091	3.636364	3.318182	3.272727	3.363636	3.090909
140	3.625000	3.125000	3.437500	3.625000	3.562500	3.375000	3.500000	3.500000	3.375000	3.500000
141	3.750000	3.416667	3.527778	3.777778	3.583333	3.722222	3.527778	3.388889	3.416667	3.500000
142	3.666667	3.333333	3.333333	3.666667	3.333333	2.666667	2.666667	3.000000	2.666667	3.000000

OBSERVED CELL MEANS --- ROWS ARE CELLS-COLUMNS ARE VARIABLES

	11 MINPRF	12 MININ	13 EZCOMP	14 USFNFC	15 RESPND	16 CLRPIC	17 UNNFO
1	3.833333	3.666667	3.666667	3.500000	3.666667	3.666667	3.166667
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3.000000	3.000000	3.500000	3.500000	4.000000	4.000000	3.500000
4	4.000000	4.000000	3.500000	4.000000	4.000000	3.500000	2.000000
5	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
6	2.600000	2.800000	2.600000	2.800000	2.600000	2.800000	2.800000
7	3.000000	3.000000	4.000000	4.000000	4.000000	4.000000	4.000000
8	4.000000	4.000000	3.000000	4.000000	4.000000	4.000000	4.000000
9	2.000000	3.000000	2.000000	3.500000	3.000000	3.000000	3.500000
10	4.000000	3.000000	2.000000	4.000000	4.000000	4.000000	3.000000
11	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000
12	3.800000	3.100000	3.900000	3.800000	3.800000	3.800000	3.100000
13	3.666667	3.666667	4.000000	4.000000	4.000000	3.666667	4.000000
14	3.200000	3.400000	3.200000	3.600000	4.000000	3.600000	3.200000
15	3.400000	3.200000	3.600000	3.800000	3.600000	3.600000	2.400000
16	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000
17	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000
18	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	3.000000
19	3.000000	3.000000	4.000000	4.000000	4.000000	4.000000	3.000000
20	3.333333	3.250000	3.500000	3.333333	3.583333	3.416667	3.083333
21	3.200000	2.400000	3.000000	3.200000	2.400000	2.400000	2.600000
22	4.000000	3.333333	3.333333	3.666667	3.666667	3.666667	3.333333
23	3.571429	3.500000	3.500000	3.642857	3.714286	3.714286	3.142857
24	3.181818	3.181818	3.090909	3.181818	3.363636	3.181818	3.272727
25	3.400000	3.400000	3.600000	4.000000	4.000000	3.600000	3.200000
26	3.166667	3.166667	3.166667	3.166667	3.166667	3.166667	3.000000
27	3.500000	3.500000	1.500000	2.000000	0.0	3.500000	2.000000
28	3.381395	3.167442	3.255814	3.465767	3.474419	3.400000	3.097674
29	3.543860	3.412281	3.429825	3.675439	3.561404	3.543860	3.184211
30	3.515152	3.151515	3.363636	3.575758	3.575758	3.484848	3.090909
31	3.666667	3.492754	3.434783	3.655652	3.681159	3.608696	3.057971
32	2.000000	2.000000	3.000000	3.500000	3.500000	4.000000	3.500000
33	4.000000	4.000000	3.000000	4.000000	4.000000	4.000000	2.000000
34	3.398374	3.186992	3.211382	3.495935	3.390244	3.382114	2.926829
35	3.410256	3.256410	3.384615	3.307692	3.410256	3.435897	3.000000
36	3.636364	3.318182	3.636364	3.681818	3.636364	3.590909	3.227273
37	3.678571	3.535714	3.321429	3.821429	3.750000	3.785714	3.035714
38	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000
39	3.224490	3.122449	3.255102	3.357143	3.306122	3.387755	2.969388
40	3.620690	3.405172	3.431034	3.629310	3.612069	3.577586	3.129310
41	3.200000	3.400000	3.400000	3.200000	3.400000	3.200000	3.000000
42	3.731707	3.487805	3.292683	3.829268	3.756098	3.658537	3.170732
43	3.234043	3.063830	3.212766	3.319149	3.361702	3.446809	2.893617
44	3.400000	3.120000	3.220000	3.520000	3.500000	3.360000	2.900000
45	3.714286	3.714286	2.571429	3.285714	3.142857	3.142857	2.714286
46	3.700000	3.566667	3.366667	3.700000	3.633333	3.600000	3.233333
47	3.062500	2.875000	2.968750	3.125000	3.218750	3.062500	2.906250
48	3.294118	3.176471	3.588235	3.823529	3.647059	3.764706	3.176471
49	3.454545	3.363636	3.454545	3.363636	3.363636	3.272727	3.272727
50	3.933333	3.733333	3.600000	3.466667	3.733333	3.666667	3.533333

OBSERVED CELL MEANS --- ROWS ARE CELLS-COLUMNS ARE VARIABLES

	11 MINPRE	12 MININ	13 EZCOMP	14 USFNFO	15 RESPND	16 CLRPIC	17 UNNFO
51	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000
52	3.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000
53	3.545455	3.227273	3.181818	3.363636	3.181818	3.227273	3.272727
54	3.384615	3.538462	3.307692	3.538462	3.538462	3.307692	2.846154
55	3.600000	3.400000	3.400000	3.400000	3.400000	3.200000	3.400000
56	3.000000	3.000000	3.500000	3.000000	3.500000	3.500000	2.750000
57	3.458333	3.145833	3.166667	3.354167	3.312500	3.437500	2.979167
58	3.531250	3.281250	3.187500	3.562500	3.500000	3.375000	3.156250
59	3.727273	3.636364	3.272727	3.363636	3.545455	3.636364	3.363636
60	3.578947	3.421053	3.263158	3.526316	3.552632	3.500000	3.236842
61	3.000000	3.500000	3.000000	4.000000	3.500000	3.500000	2.000000
62	3.000000	3.000000	3.000000	3.000000	4.000000	3.000000	3.000000
63	3.066667	3.100000	3.033333	3.033333	3.033333	2.900000	3.000000
64	3.444444	2.944444	2.944444	3.500000	3.500000	3.777778	2.500000
65	3.500000	3.400000	3.500000	3.700000	3.400000	3.500000	3.200000
66	3.600000	3.350000	3.050000	3.400000	3.250000	3.450000	3.050000
67	3.000000	4.000000	4.000000	3.000000	3.000000	3.000000	4.000000
68	3.000000	3.000000	4.000000	4.000000	4.000000	3.000000	3.000000
69	3.500000	3.500000	3.500000	3.500000	2.500000	3.500000	3.500000
70	4.000000	3.500000	3.500000	4.000000	1.500000	3.500000	3.500000
71	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000
72	3.750000	3.500000	3.250000	3.750000	3.500000	3.750000	3.250000
73	4.000000	3.250000	2.500000	3.750000	4.000000	4.000000	2.500000
74	3.600000	3.200000	3.200000	3.600000	3.600000	3.800000	3.200000
75	3.666667	3.333333	3.000000	4.000000	3.666667	3.333333	3.333333
76	4.000000	3.500000	3.500000	2.000000	3.500000	3.500000	3.500000
77	4.000000	4.000000	3.000000	4.000000	4.000000	4.000000	3.000000
78	3.250000	3.000000	3.166667	2.583333	3.166667	3.083333	2.833333
79	3.600000	3.600000	3.300000	3.500000	3.600000	3.500000	3.300000
80	3.111111	3.222222	3.222222	3.000000	3.444444	3.333333	3.333333
81	3.333333	3.166667	3.166667	3.416667	3.416667	3.500000	3.166667
82	3.333333	3.333333	3.333333	3.333333	3.333333	3.333333	3.333333
83	4.000000	4.000000	2.000000	3.000000	4.000000	2.000000	2.000000
84	3.000000	3.000000	4.000000	4.000000	4.000000	2.000000	4.000000
85	3.250000	3.083333	3.083333	3.166667	3.166667	3.000000	2.916667
86	2.333333	2.333333	2.333333	2.666667	2.666667	2.333333	2.666667
87	3.666667	3.666667	4.000000	3.666667	3.333333	3.333333	3.333333
88	4.000000	3.750000	3.750000	3.000000	4.000000	4.000000	3.500000
89	3.500000	3.500000	3.500000	3.500000	3.500000	3.500000	3.500000
90	4.000000	3.500000	4.000000	4.000000	4.000000	3.500000	3.500000
91	3.464789	3.197183	3.253521	3.422535	3.507042	3.323944	3.000000
92	3.641026	3.346154	3.512821	3.679487	3.602564	3.576923	3.217949
93	3.444444	3.037037	3.259259	3.444444	3.407407	3.222222	3.037037
94	3.706522	3.434783	3.467391	3.815217	3.673913	3.728261	3.402174
95	3.222222	3.277778	3.222222	3.388889	3.222222	3.277778	3.111111
96	3.352941	3.000000	3.176471	3.352941	3.470588	3.235294	2.941176
97	3.400000	3.200000	3.400000	2.800000	2.800000	2.000000	1.800000
98	3.100000	2.900000	3.100000	3.200000	3.200000	3.100000	2.800000
99	3.313725	3.254902	3.235294	3.352941	3.333333	3.254902	3.117647
100	3.711111	3.644444	3.444444	3.755556	3.777778	3.688889	3.066667

OBSERVED CELL MEANS --- ROWS ARE CELLS-COLUMNS ARE VARIABLES

11 MINPRE	12 MININ	13 EZCOMP	14 USFNFO	15 RESPND	16 CLRPIC	17 UNNFO

101	3.529412	3.117647	3.294118	3.529412	3.352941	3.235294	3.000000
102	3.592593	3.555556	3.518519	3.759259	3.685185	3.666667	3.055556
103	3.076923	2.884615	3.038462	3.269231	3.038462	3.230769	3.076923
104	3.000000	2.923077	3.307692	3.384615	3.307692	3.384615	3.000000
105	3.200000	2.800000	3.000000	3.000000	3.200000	2.600000	3.000000
106	3.785714	3.642857	3.785714	3.857143	3.642857	3.357143	3.071429
107	4.000000	4.000000	2.000000	3.000000	3.500000	3.500000	3.500000
108	4.000000	3.000000	4.000000	4.000000	4.000000	4.000000	3.000000
109	3.250000	3.500000	3.000000	3.500000	3.250000	3.250000	2.500000
110	3.888889	3.555556	3.666667	3.888889	4.000000	3.777778	3.111111
111	3.090909	2.909091	3.454545	3.636364	3.363636	3.090909	2.727273
112	4.000000	3.750000	3.500000	3.750000	4.000000	4.000000	3.250000
113	4.000000	3.750000	3.500000	3.750000	3.750000	3.750000	3.250000
114	3.750000	3.250000	3.250000	3.750000	4.000000	4.000000	3.000000
115	3.500000	3.500000	3.357143	3.642857	3.642857	3.642857	3.785714
116	3.750000	3.550000	3.400000	3.600000	3.750000	3.600000	3.050000
117	3.000000	3.000000	2.750000	3.000000	3.000000	3.000000	2.750000
118	3.857143	3.500000	3.428571	3.857143	3.735714	3.714286	3.285714
119	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000
120	3.750000	3.500000	3.500000	3.625000	3.500000	3.500000	3.375000
121	3.700000	3.500000	3.800000	3.800000	3.800000	3.600000	3.600000
122	3.750000	3.250000	3.250000	4.000000	4.000000	4.000000	2.750000
123	3.583333	3.333333	3.333333	3.666667	3.666667	3.583333	3.250000
124	3.235294	3.058824	2.882353	3.117647	3.176471	3.176471	2.529412
125	3.214286	3.071429	3.071429	3.214286	3.214286	3.142857	2.785714
126	3.666667	3.000000	3.333333	3.666667	3.500000	3.833333	2.500000
127	3.733333	3.666667	3.600000	3.866667	3.866667	3.733333	3.066667
128	3.500000	3.500000	3.000000	3.500000	4.000000	3.500000	3.500000
129	4.000000	4.000000	2.666667	3.666667	3.333333	4.000000	3.000000
130	3.800000	3.600000	3.600000	4.000000	4.000000	2.800000	2.600000
131	3.571429	3.571429	3.571429	3.857143	3.714286	3.571429	3.285714
132	3.512821	3.384615	3.153846	3.487179	3.589744	3.564103	3.076923
133	3.744186	3.511628	3.581395	3.813953	3.697674	3.720930	3.302326
134	3.846154	3.692308	3.461538	3.692308	3.846154	3.846154	3.307692
135	3.794521	3.520548	3.534247	3.712329	3.767123	3.808219	3.150685
136	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000
137	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000
138	3.578947	3.157895	3.473684	3.631579	3.526316	3.736842	3.315789
139	3.590909	3.545455	3.409091	3.681818	3.590909	3.500000	3.318182
140	3.687500	3.562500	3.500000	3.562500	3.625000	3.625000	3.187500
141	3.750000	3.361111	3.555556	3.694444	3.750000	3.666667	3.277778
142	3.000000	3.333333	3.333333	3.666667	3.666667	3.666667	2.666667

OBSERVED CELL STD DEVS—ROWS ARE CELLS-COLUMNS VARIABLES

	1 AMTNFO	2 ACCNFC	3 SUPDFC	4 SATBRF	5 ORDNFO	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PRPCON
1	1.032796	0.836660	0.516398	0.516398	0.516398	0.547723	0.547723	0.547723	0.516398	0.752773
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.414214	1.414214	0.707107	0.0	0.0	0.707107	0.0	0.0	1.414214	1.414214
4	0.0	0.0	0.707107	0.0	0.707107	0.0	0.0	0.707107	0.707107	0.707107
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	1.000000	0.447214	0.547723	0.836660	0.836660	0.836660	1.303840	1.303840	0.447214	0.547723
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.707107	0.0	0.707107	1.414214	0.0	2.121320	2.828427	2.828427	2.121320	2.828427

10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.674949	0.483046	0.421637	0.0	0.316228	0.483046	1.100505	0.516398	0.527046	0.421637
13	0.0	0.0	0.577350	0.577350	0.577350	0.577350	0.0	1.154701	0.0	0.0
14	0.447214	0.447214	0.447214	0.547723	0.447214	0.447214	1.516575	1.341641	1.643168	0.447214
15	1.095445	0.836660	0.447214	1.000000	0.836660	0.547723	0.447214	0.836660	0.707107	0.836660
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.797724	0.514929	0.792561	0.778499	0.651339	1.114641	0.452267	0.389249	0.577350	1.154701
21	1.095445	0.836660	0.894427	1.095445	1.095445	1.000000	1.303840	0.707107	1.673320	0.836660
22	0.577350	0.577350	0.577350	0.577350	0.577350	0.577350	0.577350	0.577350	0.577350	0.0
23	1.091928	0.513553	0.650444	0.633324	0.497245	0.468807	0.633324	0.578934	0.513553	0.497245
24	1.221028	1.136182	1.629278	1.433369	1.629278	1.689540	1.368476	1.078720	1.361817	1.136182
25	0.447214	0.547723	0.547723	0.0	0.547723	0.547723	0.0	0.447214	0.0	0.836660
26	0.816497	0.894427	0.894427	1.095445	0.632456	0.836660	0.516398	0.408248	0.408248	0.836660
27	2.828427	2.121320	2.121320	2.828427	2.828427	2.828427	2.121320	2.121320	2.121320	0.707107
28	0.813706	0.884138	0.824848	0.885366	0.852958	0.904960	0.826427	0.838204	0.810387	0.865680
29	0.557513	0.841083	0.706887	0.948323	0.831803	0.559189	0.691735	0.675899	0.693584	0.751338
30	0.755034	0.545297	0.667140	0.711113	0.574060	0.769937	0.613917	0.578988	0.545297	0.595119
31	0.798282	0.856996	0.797214	0.678811	0.813358	0.676924	0.795876	0.624861	0.567671	0.717282
32	0.0	0.0	0.707107	0.0	0.707107	0.0	1.414214	0.707107	1.414214	0.707107
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.793147	0.656222	0.675962	0.823324	0.907636	0.950248	0.758356	0.807881	0.755450	0.766484
35	0.911762	0.662766	0.668351	0.662265	0.584321	0.938026	0.720811	0.601393	0.484580	0.737468
36	0.800433	0.581087	0.738549	1.093071	0.908116	1.302162	0.581087	0.511766	0.511766	0.455842
37	0.585314	1.066567	0.669636	0.844371	0.835711	1.071517	0.857584	0.692935	0.785955	0.967050
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	0.916914	0.906820	0.812277	1.029545	1.000316	1.090334	0.884683	0.910987	0.823403	0.800273
40	0.545666	0.723145	0.649934	0.656418	0.816619	0.878657	0.719976	0.711651	0.675276	0.639059
41	0.894427	1.516575	0.547723	0.894427	0.894427	0.894427	0.836660	0.547723	0.447214	0.547723
42	0.488901	0.546608	0.636300	0.567407	0.806982	0.675350	0.860374	0.757885	0.835201	0.843194
43	0.718463	0.845076	0.743146	0.856493	0.887262	0.895048	0.824015	0.751194	0.763409	0.541882
44	0.543984	0.925820	0.851409	0.862128	1.131371	1.184250	0.947822	0.766913	1.087217	1.115567
45	0.951190	1.414214	1.496026	1.573592	1.463850	1.496026	1.345185	1.463850	1.414214	1.380131
46	0.660895	0.628810	0.676062	0.660895	0.718395	0.802296	0.461132	0.571346	0.534983	0.702213
47	0.870090	0.692704	0.941858	1.244242	1.036541	1.121185	1.135924	1.092035	1.173893	1.077632
48	1.067570	0.606339	1.333946	1.067570	1.333946	1.067570	0.514458	0.606339	0.492592	0.514496
49	0.674200	0.504525	0.603023	0.687552	1.221028	0.809040	0.467099	0.522233	0.522233	0.750757
50	0.258199	0.487550	0.457738	1.046536	0.516398	0.457738	0.516398	0.639940	0.516398	0.507093

OBSERVED CELL STD DEVS--ROWS ARE CELLS-COLUMNS VARIABLES

	1 AMTNFO	2 ACCNFO	3 SUPDFC	4 SATBRF	5 CRDNFO	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PMPCON
51	0.707107	0.0	0.0	0.0	2.828427	0.0	0.707107	0.0	0.707107	0.0
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	0.738549	1.154701	0.971454	1.041353	1.180652	1.007547	0.670582	0.984732	0.646335	1.206942
54	0.751068	0.767948	0.751068	0.660225	0.751068	0.650444	0.518875	1.344504	0.375534	0.816497
55	0.836660	0.547723	0.894427	0.894427	0.836660	0.836660	0.547723	0.547723	0.547723	0.894427
56	0.957427	0.577350	0.500000	0.577350	0.0	0.500000	0.0	0.0	0.0	0.577350
57	0.837666	0.850271	0.678965	0.896951	0.880995	1.009705	0.627036	0.753244	0.691578	0.770696
58	0.712079	0.841825	0.870669	0.865443	1.093649	0.941323	0.895779	0.888434	0.879883	1.060660
59	0.687552	1.078720	0.809040	0.404520	0.522233	0.522233	0.603023	0.467099	0.632456	0.522233
60	0.861703	0.723513	0.795167	0.796954	0.679406	0.933035	0.644486	0.685140	0.633916	0.855074
61	0.707107	0.0	0.707107	0.707107	0.0	0.707107	0.0	0.0	0.0	0.707107

62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	0.870988	0.614948	0.668675	0.994814	0.739680	0.742781	0.614948	0.556053	0.571346	0.870988
64	1.096638	1.074055	0.607685	0.685994	0.570143	1.395605	1.043185	0.598365	1.127494	1.109967
65	0.483046	0.516398	0.516398	1.264911	0.707107	0.875595	0.516398	0.527046	1.197219	1.632993
66	0.820783	0.615587	0.745160	0.933302	0.812728	0.801315	0.718185	0.638666	0.552506	0.852242
67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	0.0	0.707107	0.707107	0.707107	0.707107	0.707107	0.0	0.707107	0.707107	0.707107
70	0.0	0.707107	0.0	0.707107	0.707107	0.0	0.0	0.0	0.0	0.0
71	0.0	0.0	0.707107	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	1.000000	0.500000	0.500000	1.000000	1.914854	1.000000	0.577350	0.500000	0.500000	0.500000
73	0.500000	0.500000	0.0	0.0	1.000000	0.500000	0.577350	0.816497	0.500000	1.892969
74	0.894427	0.836660	0.547723	0.894427	0.836660	0.894427	0.836660	0.447214	0.547723	0.547723
75	0.0	0.0	0.577350	1.154701	1.000000	0.577350	1.154701	1.154701	0.577350	0.577350
76	0.0	0.0	0.707107	0.707107	0.707107	0.707107	0.707107	0.0	0.707107	0.707107
77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	0.797724	1.164500	1.193416	1.267304	1.128152	1.128152	1.083625	0.514929	0.492366	1.029857
79	0.843274	0.632456	0.421637	0.849837	0.707107	0.823273	0.567646	0.632456	0.632456	0.674949
80	0.927961	0.707107	0.833333	0.833333	0.500000	1.509231	1.118034	1.201850	1.118034	0.666667
81	0.887625	0.668558	0.671582	0.797724	0.753778	1.193416	0.778499	0.778499	0.668558	0.887625
82	1.000000	1.154701	1.154701	1.154701	1.154701	1.000000	1.000000	1.000000	1.154701	1.154701
83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	0.834847	1.029857	0.577350	0.834847	1.230915	0.717741	1.128152	1.356801	1.356801	1.193416
86	0.0	2.309401	2.081666	2.309401	2.081666	2.309401	2.081666	2.081666	2.081666	2.309401
87	0.0	0.577350	0.577350	0.0	0.577350	0.577350	0.0	0.577350	0.577350	0.577350
88	0.0	0.0	0.0	0.0	0.0	0.0	0.500000	0.500000	0.577350	0.577350
89	0.707107	0.707107	0.707107	0.707107	0.707107	0.707107	0.0	0.0	0.707107	0.0
90	1.414214	0.707107	0.707107	0.0	0.0	0.0	0.707107	0.707107	0.707107	0.0
91	0.691425	0.905827	0.781321	0.772255	1.112215	1.164187	1.101124	1.007018	0.977411	0.724951
92	0.657952	0.798037	0.678998	0.811280	0.825420	0.348104	0.807577	0.728562	0.668122	0.807577
93	0.791695	0.594371	0.608581	0.700020	0.548833	0.751068	0.891556	0.629294	0.557262	0.741524
94	0.591689	0.654289	0.540191	0.602888	0.761204	0.881609	0.813468	0.837702	0.731190	0.582021
95	0.697802	0.685594	0.594089	0.783823	0.646762	0.777544	0.676400	0.594089	0.485071	0.646762
96	0.712287	0.624264	0.664211	0.717430	1.268574	1.144038	1.014595	0.685594	0.992620	1.053705
97	1.788854	1.303840	1.095445	1.095445	0.836660	0.447214	1.000000	0.836660	1.516575	1.000000
98	1.054093	0.942809	0.918937	0.788811	0.823273	0.699206	0.567646	0.567646	0.666667	0.737865
99	0.758223	0.907485	1.052728	1.222662	0.882285	1.016723	0.830780	0.721654	0.834548	0.966903
100	0.608857	0.547723	0.528959	0.962950	0.842675	0.840875	0.876172	0.845837	0.768706	0.811533

OBSERVED CELL STD DEVS--ROWS ARE CELLS-COLUMNS VARIABLES

	1 AMTNFO	2 ACCNFC	3 SUPCEC	4 SATBRF	5 ORDNFO	6 MESLEN	7 CUALVY	8 AMTNYZ	9 SPKGRA	10 PMPCON
101	0.717430	0.562296	0.465668	0.618347	0.624264	0.712287	0.507300	0.507300	0.492592	0.562296
102	0.527709	0.540789	0.592287	0.588737	1.000349	0.614295	0.574316	0.636640	0.704632	0.495966
103	1.010712	0.951113	0.947872	1.192283	0.951113	1.155588	0.880559	1.046606	0.880559	1.112862
104	0.759555	0.640513	0.650444	0.832050	0.660225	0.688737	0.554700	0.493548	0.480384	1.037749
105	1.095445	0.447214	0.836660	1.000000	0.836660	1.483240	0.447214	0.707107	0.447214	0.547723
106	0.468807	0.633324	0.633324	0.425815	0.497245	0.650444	0.518875	0.513553	0.468807	0.759555
107	2.121320	2.828427	2.121320	2.121320	2.828427	2.121320	0.0	0.0	0.0	0.707107
108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109	0.500000	0.557427	0.816497	0.500000	1.732051	1.914854	1.500000	0.816497	1.414214	1.000000
110	0.333333	0.500000	0.333333	0.333333	0.726483	0.833333	0.707107	0.500000	0.666667	0.500000
111	0.674200	0.646670	1.167748	1.250454	1.264911	1.167748	0.522233	0.504525	0.522233	0.687552
112	0.0	0.500000	0.0	0.0	0.500000	0.500000	0.577350	0.577350	0.577350	0.577350
113	0.0	0.577350	0.500000	0.0	0.577350	0.500000	0.500000	0.577350	0.577350	0.500000

114	0.0	0.500000	0.500000	0.0	0.577350	0.500000	0.500000	0.500000	0.577350	0.500000
115	0.726273	0.513553	0.518875	0.425815	0.650444	0.646206	0.650444	0.646206	0.468807	0.468807
116	0.523148	0.510418	0.598243	0.550120	0.606977	0.760886	0.510418	0.510418	0.502625	1.251315
117	0.0	0.500000	0.0	0.500000	0.577350	2.000000	1.732051	1.732051	1.732051	2.000000
118	0.726273	0.646206	0.534522	0.534522	0.646206	0.363137	0.534522	0.554700	0.554700	0.726273
119	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.744024	0.744024	0.744024	0.755929	0.886405	0.744024	0.517549	0.517549	0.534522	0.534522
121	0.421637	0.516398	0.483046	0.316228	0.516398	0.421637	0.699206	0.516398	0.674949	0.788811
122	0.0	0.0	0.0	0.0	0.500000	0.957427	0.500000	0.0	0.500000	0.577350
123	0.389249	1.114641	0.452267	0.651339	0.778499	0.668558	0.514929	0.621582	0.621582	0.717741
124	1.358524	1.274755	0.685994	1.380004	1.322876	1.497547	1.251470	1.371989	1.159995	1.437420
125	0.759555	1.037749	1.109400	1.121714	0.957249	1.037749	1.071612	1.037749	1.204388	1.081818
126	0.816497	1.366260	0.816497	0.408248	0.516398	0.816497	0.547723	0.547723	0.408248	0.547723
127	0.593617	0.457738	0.487950	0.414039	0.639940	0.516398	0.487950	0.457738	0.961150	0.487950
128	0.0	2.828427	0.707107	0.0	0.707107	0.707107	0.0	0.0	0.707107	0.0
129	0.0	0.577350	2.081666	0.0	0.577350	1.154701	0.0	0.577350	0.0	0.577350
130	0.447214	1.516575	0.547723	0.447214	0.447214	0.447214	0.547723	0.547723	0.547723	0.894427
131	0.377964	0.487950	0.534522	0.0	0.534522	0.487950	0.487950	0.487950	0.816497	0.899735
132	0.677377	0.529813	0.842527	0.613611	0.737468	0.927173	0.637344	0.656124	0.614709	0.646803
133	0.796587	0.951172	0.756661	0.674648	0.934748	0.783269	0.797976	0.841872	0.778305	0.825265
134	0.0	0.518875	0.518875	0.599145	0.506370	0.751068	0.438529	0.518875	0.506370	0.506370
135	0.551737	0.555860	0.592315	0.682740	0.706838	0.679668	0.594875	0.707645	0.544797	0.553802
136	0.707107	0.707107	1.414214	1.414214	1.414214	0.707107	0.707107	0.707107	0.707107	0.707107
137	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138	0.535303	1.031662	0.961237	0.374634	0.955134	0.495595	1.020263	1.017393	1.002920	0.683986
139	0.716231	0.666125	0.646335	0.726731	1.007547	0.657952	0.567900	0.702500	0.581087	0.750180
140	0.619139	1.310216	0.629153	0.619139	0.629153	1.087811	0.516398	0.516398	0.500000	0.516398
141	0.769972	0.769972	0.608758	0.540429	0.603561	0.513315	0.506309	0.766356	0.769972	0.609449
142	0.577350	0.577350	0.577350	0.577350	1.154701	0.577350	0.577350	0.0	0.577350	1.000000

OBSERVED CELL STD DEVS--ROWS ARE CELLS-COLUMNS VARIABLES

	11 MINPRE	12 MININ	13 EZCOMP	14 USFNFO	15 RESPND	16 CLRPIC	17 UNNFO
1	0.408248	0.516398	0.516398	0.547723	0.516398	0.516398	1.602082
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.414214	1.414214	0.707107	0.707107	0.0	0.0	0.707107
4	0.0	0.0	0.707107	0.0	0.0	0.707107	2.828427
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.894427	0.836660	0.547723	0.836660	0.894427	0.836660	0.836660
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	2.828427	1.414214	2.828427	0.707107	1.414214	0.0	0.707107
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.421637	1.197219	0.316228	0.421637	0.421637	0.421637	1.197219
13	0.577350	0.577350	0.0	0.0	0.0	0.577350	0.0
14	1.095445	0.894427	0.836660	0.547723	0.0	0.547723	0.836660
15	0.547723	0.447214	0.547723	0.447214	0.547723	0.547723	1.516575
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.887625	0.866025	0.522233	0.778499	0.514929	0.668558	0.668558
21	1.095445	1.673320	0.707107	1.095445	1.673320	1.673320	1.673320
22	0.0	0.577350	0.577350	0.577350	0.577350	0.577350	0.577350
23	0.646206	0.650444	0.518875	0.457245	0.468807	0.468807	1.027105

24	1.250454	1.250454	1.221028	1.250454	1.361817	1.328020	1.348400
25	0.547723	0.547723	0.547723	0.0	0.0	0.547723	0.447214
26	0.983192	0.752773	0.983192	0.983192	0.583192	0.583192	0.632456
27	0.707107	0.707107	2.121320	2.828427	0.0	0.707107	2.828427
28	0.953904	1.080784	0.924562	0.926135	0.921217	0.926253	0.939648
29	0.842881	0.919902	0.740357	0.616809	0.831196	0.765869	0.927131
30	0.667140	0.870388	0.699025	0.662668	0.708445	0.618527	0.722959
31	0.740959	0.851006	0.652557	0.753508	0.737499	0.669007	1.148964
32	2.828427	2.828427	1.414214	0.707107	0.707107	0.0	0.707107
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.893876	1.089063	0.858560	0.852902	0.928900	0.854308	0.968104
35	1.044231	1.018718	0.814842	1.150603	1.018718	1.046168	1.076055
36	0.581087	1.170525	0.492366	0.646335	0.726731	0.590326	0.922307
37	0.862965	0.881167	0.862965	0.475595	0.844371	0.498675	0.881167
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	1.010569	1.067469	0.944955	0.922234	1.009319	0.857143	0.999527
40	0.641400	0.709911	0.700610	0.797062	0.669478	0.620671	0.818590
41	0.836660	0.547723	0.547723	0.836660	0.547723	0.836660	0.0
42	0.501218	0.559261	0.782429	0.495058	0.537610	0.574881	0.833740
43	1.183450	1.205139	0.778409	1.044788	0.987433	0.829052	0.914474
44	0.968904	1.118308	0.789988	0.814160	0.814411	0.776176	1.073807
45	0.755929	0.755929	1.812654	1.496026	1.573592	1.463850	1.380131
46	0.534983	0.568321	0.668675	0.534983	0.614948	0.621455	0.727932
47	1.105339	1.288911	1.177323	1.157026	0.974990	0.981687	1.173893
48	1.311712	1.286239	0.507300	0.392953	0.606339	0.437237	0.951006
49	0.687552	0.504525	0.522233	0.674200	0.504525	0.646670	0.646670
50	0.258199	0.457738	0.507093	1.060099	0.457738	0.487950	0.516398

OBSERVED CELL STD DEVS--ROWS ARE CELLS-COLUMNS VARIABLES

	11 MINPRE	12 MININ	13 EZCOMP	14 USENEC	15 RESPND	16 CLRPIC	17 UNNFO
51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	0.670982	0.572567	0.957992	1.002162	1.220319	1.231794	1.031957
54	0.767948	0.660225	0.751068	0.776250	0.776250	0.854850	1.068188
55	0.547723	0.547723	0.547723	0.894427	0.894427	0.836660	0.894427
56	0.816497	0.816497	0.577350	0.816497	0.577350	0.577350	0.500000
57	0.898186	1.202649	0.807764	0.933754	0.970589	0.649263	1.120212
58	0.879310	1.197696	0.895779	0.877588	0.879883	1.099853	0.846601
59	0.467099	0.504525	0.786245	0.809040	0.687552	0.674200	0.674200
60	0.683061	0.792927	0.759951	0.796507	0.724004	0.762287	0.913390
61	0.0	0.707107	0.0	0.0	0.707107	0.707107	0.0
62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	0.639684	0.661764	0.718395	0.808717	0.764890	0.758856	0.643268
64	1.041618	1.474179	1.304843	1.043185	1.043185	0.548319	1.543487
65	0.527046	0.516398	0.707107	0.674549	0.659206	0.527046	0.788811
66	0.753937	0.745160	0.686333	0.820783	1.069924	0.825578	0.759155
67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	0.707107	0.707107	0.707107	0.707107	0.707107	0.707107	0.707107
70	0.0	0.707107	0.707107	0.0	2.121320	0.707107	0.707107
71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	0.500000	0.577350	0.500000	0.500000	0.577350	0.500000	0.957427
73	0.0	0.500000	1.732051	0.500000	0.0	0.0	1.732051
74	0.547723	0.447214	0.447214	0.894427	0.894427	0.447214	0.836660
75	0.577350	0.577350	0.0	0.0	0.577350	1.154701	0.577350

76	0.0	0.707107	0.707107	2.828427	0.707107	0.707107	0.707107
77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	1.215431	1.128152	1.114641	1.676486	1.193416	1.164500	1.029857
79	0.699206	0.699206	0.674949	0.849837	0.843274	0.849837	0.674949
80	0.977561	0.833333	0.666667	1.414214	0.726483	0.707107	0.500000
81	0.984732	0.834847	0.834847	0.752961	0.752961	0.757724	0.937437
82	1.154701	1.154701	1.154701	1.154701	1.154701	1.154701	1.154701
83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	1.215431	1.164500	1.083625	1.193416	1.193416	1.128152	1.443376
86	2.081666	2.081666	2.081666	2.309401	2.309401	2.081666	2.309401
87	0.577350	0.577350	0.0	0.577350	1.154701	0.577350	0.577350
88	0.0	0.500000	0.500000	2.000000	0.0	0.0	0.577350
89	0.707107	0.707107	0.707107	0.707107	0.707107	0.707107	0.707107
90	0.0	0.707107	0.0	0.0	0.0	0.707107	0.707107
91	0.733504	0.980083	0.873716	0.885012	0.772255	0.890821	1.095445
92	0.720288	0.909216	0.697744	0.592016	0.827133	0.712034	0.877532
93	0.974022	1.091276	0.902671	0.933700	0.693889	0.891556	0.935782
94	0.688314	0.802528	0.776737	0.591689	0.903092	0.515757	0.914592
95	1.003263	0.958280	0.646762	0.697802	1.060275	0.669113	1.022620
96	1.165464	1.322876	1.074436	1.114741	0.799816	1.147247	1.088037
97	0.894427	0.836660	0.894427	1.643168	1.643168	1.870829	1.643168
98	0.875595	0.737865	0.737865	0.918937	0.918937	0.875595	0.632456
99	0.836426	0.934733	0.950542	0.976187	0.840635	0.934733	0.930528
100	0.548644	0.528959	0.659047	0.570309	0.559581	0.556867	1.053134

OBSERVED CELL STD DEVS--ROWS ARE CELLS-COLUMNS VARIABLES

	11 MINPRE	12 MINTA	13 FZCOMP	14 USENFO	15 RESEND	16 CLOPIC	17 UNNFO
101	0.717430	0.600245	0.587868	0.624264	0.606339	0.664211	1.060660
102	0.858224	0.691366	0.540466	0.473254	0.722263	0.513956	0.919735
103	1.324329	1.275207	1.076319	1.150919	1.310501	1.142199	1.128648
104	1.080123	1.037749	0.480384	0.506370	0.480384	0.506370	0.577350
105	1.095445	0.836660	0.707107	1.000000	1.095445	0.547723	0.707107
106	0.425815	0.497245	0.425815	0.363137	0.633324	1.150728	0.730046
107	0.0	0.0	2.828427	1.414214	0.707107	0.707107	0.707107
108	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109	0.957427	0.577350	0.816497	1.000000	0.957427	0.957427	0.577350
110	0.333333	0.527046	0.707107	0.333333	0.0	0.666667	0.781736
111	1.221028	1.136182	0.522233	0.504525	0.809040	0.700649	1.103713
112	0.0	0.500000	0.577350	0.500000	0.0	0.0	0.500000
113	0.0	0.500000	0.577350	0.500000	0.500000	0.500000	0.500000
114	0.500000	0.500000	0.500000	0.500000	0.0	0.0	0.816497
115	0.518875	0.518875	0.744946	0.744946	0.744946	0.744946	0.425815
116	0.444262	0.510418	0.940325	0.994723	0.444262	0.598243	0.998683
117	2.000000	2.000000	1.892969	2.000000	2.000000	2.000000	1.892969
118	0.534522	0.759555	0.646206	0.534522	0.578954	0.611250	0.468807
119	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.462910	0.534522	0.534522	0.517549	0.534522	0.534522	1.407886
121	0.483046	0.527046	0.421637	0.421637	0.421637	0.516398	0.695206
122	0.500000	0.500000	0.957427	0.0	0.0	0.0	0.500000
123	0.668558	0.651339	0.492366	0.492366	0.651339	0.668558	0.753778
124	1.300452	1.248529	1.268974	1.263526	1.380004	1.333946	1.624717
125	1.121714	1.071612	1.071612	1.121714	1.121714	1.099450	1.251373
126	0.516398	1.549193	0.516398	0.816497	0.547723	0.408248	0.547723
127	0.457738	0.487950	0.507093	0.351866	0.351866	0.457738	0.961150

128	0.707107	0.707107	0.0	0.707107	0.0	0.707107	0.707107
129	0.0	0.0	1.154701	0.577350	1.154701	0.0	1.000000
130	0.447214	0.547723	0.547723	0.0	0.0	1.643168	1.516575
131	0.534522	0.534522	0.534522	0.377964	0.755929	0.534522	0.487950
132	0.720811	0.673380	0.670368	0.756439	0.637344	0.680359	1.035797
133	0.726801	0.735886	0.731357	0.663892	0.887342	0.734380	1.080892
134	0.375534	0.480384	0.660225	0.630425	0.375534	0.375534	0.751068
135	0.525962	0.705256	0.579324	0.696807	0.514256	0.461204	0.810885
136	1.414214	1.414214	0.0	1.414214	1.414214	1.414214	1.414214
137	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138	0.606977	1.014515	0.696692	0.955134	0.964274	0.452414	1.002920
139	0.796366	0.738549	0.796366	0.716231	0.796366	0.801784	0.716231
140	0.602080	0.629153	0.516398	0.629153	0.619139	0.500000	1.046821
141	0.554205	1.150224	0.606839	0.576663	0.554205	0.585540	0.614636
142	1.000000	0.577350	0.577350	0.577350	0.577350	0.577350	0.577350

OBSERVED COMBINED MEANS

FACTORS 1 (L/RATING)

LEVEL 1
N = 1481.

MEANS														
	AMTNFO	=	3.535	ACCNFO	=	3.297	SUPDEC	=	3.413	SATBRF	=	3.499	ORDNFO	= 3.289
	MESLFN	=	3.289	QUALVY	=	3.176	AMTNYZ	=	3.151	SPKGRA	=	3.142	PMPCON	= 3.258
	MINPRF	=	3.450	MININ	=	3.267	EZCCMP	=	3.291	USFNFO	=	3.504	RESPND	= 3.476
	CLRPTC	=	3.453	UNNFO	=	3.063								

LEVEL 2
N = 1106.

MEANS														
	AMTNFO	=	3.646	ACCNFO	=	3.356	SUPDEC	=	3.483	SATBRF	=	3.604	ORDNFO	= 3.365
	MESLFN	=	3.381	QUALVY	=	3.283	AMTNYZ	=	3.251	SPKGRA	=	3.207	PMPCON	= 3.346
	MINPRF	=	3.561	MININ	=	3.357	EZCCMP	=	3.374	USFNFO	=	3.579	RESPND	= 3.564
	CLRPTC	=	3.514	UNNFO	=	3.136								

FACTORS 2 (ENGINES)

LEVEL 1
N = 752.

MEANS														
	AMTNFO	=	3.565	ACCNFO	=	3.339	SUPDEC	=	3.430	SATBRF	=	3.507	ORDNFO	= 3.307
	MESLFN	=	3.293	QUALVY	=	3.157	AMTNYZ	=	3.193	SPKGRA	=	3.176	PMPCON	= 3.306
	MINPRF	=	3.475	MININ	=	3.291	EZCCMP	=	3.342	USFNFO	=	3.516	RESPND	= 3.488
	CLRPTC	=	3.434	UNNFO	=	3.114								

LEVEL 2
N = 1835.

MEANS														
	AMTNFO	=	3.593	ACCNFO	=	3.316	SUPDEC	=	3.449	SATBRF	=	3.559	ORDNFO	= 3.328
	MESLFN	=	3.343	QUALVY	=	3.232	AMTNYZ	=	3.194	SPKGRA	=	3.167	PMPCON	= 3.292
	MINPRF	=	3.506	MININ	=	3.311	EZCCMP	=	3.320	USFNFO	=	3.544	RESPND	= 3.524
	CLRPTC	=	3.498	UNNFO	=	3.066								

FACTORS 3 (TOTALFLY)

LEVEL 1
N = 1217.

MEANS					
AMTNFO = 3.598	ACCNFO = 3.320	SUPDEC = 3.463	SATBRF = 3.556	ORDNFO = 3.316
MESLEN = 3.325	QUALVY = 3.188	AMTNYZ = 3.166	SPKGRA = 3.154	PMPCON = 3.289
MINPRF = 3.484	MININ = 3.293	EZCCMP = 3.316	USFNFO = 3.553	RESPND = 3.520
CLRPIC = 3.491	UNNFO = 3.076			

LEVEL 2
N = 1370.

MEANS				
AMTNFO = 3.573	ACCNFO = 3.325	SUPDEC = 3.425	SATBRF = 3.533	ORDNFO = 3.327
MESLEN = 3.331	QUALVY = 3.251	AMTNYZ = 3.218	SPKGRA = 3.183	PMPCON = 3.301
MINPRF = 3.510	MININ = 3.316	EZCCMP = 3.336	USFNFO = 3.521	RESPND = 3.508
CLRPIC = 3.469	UNNFO = 3.110			

FACTORS 4 (ANUALFLY)

LEVEL 1
N = 998.

MEANS				
AMTNFO = 3.564	ACCNFO = 3.307	SUPDEC = 3.428	SATBRF = 3.516	ORDNFO = 3.297
MESLEN = 3.291	QUALVY = 3.214	AMTNYZ = 3.159	SPKGRA = 3.164	PMPCON = 3.302
MINPRF = 3.459	MININ = 3.278	EZCCMP = 3.324	USFNFO = 3.512	RESPND = 3.500
CLRPIC = 3.446	UNNFO = 3.066			

LEVEL 2
N = 1589.

MEANS				
AMTNFO = 3.598	ACCNFO = 3.332	SUPDEC = 3.452	SATBRF = 3.561	ORDNFO = 3.337
MESLEN = 3.352	QUALVY = 3.226	AMTNYZ = 3.215	SPKGRA = 3.173	PMPCON = 3.292
MINPRF = 3.522	MININ = 3.323	EZCCMP = 3.329	USFNFO = 3.551	RESPND = 3.522
CLRPIC = 3.500	UNNFO = 3.111			

FACTORS 5 (GAED)

LEVEL 1
N = 1647.

MEANS				
AMTNFO = 3.594	ACCNFO = 3.330	SUPDEC = 3.464	SATBRF = 3.565	ORDNFO = 3.335
MESLEN = 3.330	QUALVY = 3.214	AMTNYZ = 3.189	SPKGRA = 3.157	PMPCON = 3.324
MINPRF = 3.512	MININ = 3.308	EZCCMP = 3.337	USFNFO = 3.545	RESPND = 3.537
CLRPIC = 3.498	UNNFO = 3.117			

LEVEL 2
N = 940.

MEANS				
AMTNFO = 3.568	ACCNFO = 3.310	SUPDEC = 3.405	SATBRF = 3.506	ORDNFO = 3.299
MESLEN = 3.324	QUALVY = 3.234	AMTNYZ = 3.201	SPKGRA = 3.193	PMPCON = 3.247
MINPRF = 3.472	MININ = 3.301	EZCCMP = 3.309	USFNFO = 3.521	RESPND = 3.472
CLRPIC = 3.446	UNNFO = 3.053			

FACTORS 6 (FCWERRNT)

LEVEL 1
N = 2450.

MEANS					
AMTNFO = 3.597	ACCNFO = 3.328	SUPDEC = 3.449	SATBRF = 3.550	ORDNFO = 3.325	
MESLEN = 3.338	QUALVY = 3.225	AMTNYZ = 3.194	SPKGRA = 3.170	PMPCON = 3.300	
MINPRF = 3.512	MININ = 3.315	EZCOMP = 3.332	USENFO = 3.545	RESPND = 3.527	
CLRPTC = 3.493	UNNFO = 3.100				

LEVEL 2
N = 137.

MEANS					
AMTNFO = 3.372	ACCNFO = 3.226	SUPDEC = 3.321	SATBRF = 3.431	ORDNFO = 3.255	
MESLEN = 3.153	QUALVY = 3.153	AMTNYZ = 3.190	SPKGRA = 3.161	PMPCON = 3.219	
MINPRF = 3.248	MININ = 3.131	EZCOMP = 3.234	USENFO = 3.372	RESPND = 3.277	
CLRPTC = 3.226	UNNFO = 2.978				

FACTORS 7 (OLD USE)

LEVEL 1
N = 1708.

MEANS					
AMTNFO = 3.542	ACCNFO = 3.302	SUPDEC = 3.400	SATBRF = 3.489	ORDNFO = 3.273	
MESLEN = 3.273	QUALVY = 3.196	AMTNYZ = 3.162	SPKGRA = 3.146	PMPCON = 3.256	
MINPRF = 3.429	MININ = 3.245	EZCOMP = 3.285	USENFO = 3.482	RESPND = 3.456	
CLRPTC = 3.427	UNNFO = 3.061				

LEVEL 2
N = 875.

MEANS					
AMTNFO = 3.668	ACCNFO = 3.363	SUPDEC = 3.526	SATBRF = 3.651	ORDNFO = 3.416	
MESLEN = 3.435	QUALVY = 3.277	AMTNYZ = 3.255	SPKGRA = 3.215	PMPCON = 3.373	
MINPRF = 3.631	MININ = 3.423	EZCOMP = 3.407	USENFO = 3.641	RESPND = 3.626	
CLRPTC = 3.575	UNNFO = 3.157				

FACTORS 8 (NEW USE)

LEVEL 1
N = 1242.

MEANS					
AMTNFO = 3.465	ACCNFO = 3.227	SUPDEC = 3.349	SATBRF = 3.425	ORDNFO = 3.232	
MESLEN = 3.208	QUALVY = 3.193	AMTNYZ = 3.145	SPKGRA = 3.126	PMPCON = 3.238	
MINPRF = 3.378	MININ = 3.193	EZCOMP = 3.241	USENFO = 3.414	RESPND = 3.396	
CLRPTC = 3.362	UNNFO = 3.039				

LEVEL 2
N = 1345.

MEANS					
AMTNFO = 3.692	ACCNFO = 3.410	SUPDEC = 3.529	SATBRF = 3.654	ORDNFO = 3.404	
MESLEN = 3.439	QUALVY = 3.251	AMTNYZ = 3.239	SPKGRA = 3.210	PMPCON = 3.349	
MINPRF = 3.608	MININ = 3.409	EZCOMP = 3.406	USENFO = 3.645	RESPND = 3.622	
CLRPTC = 3.587	UNNFO = 3.144				

RANK OF THE BASIS = RANK OF MODEL FOR SIGNIFICANCE TESTING = 9

RANK OF THE MODEL TO BE ESTIMATED IS 9

ERROR TERM TO BE USED IS (RESIDUAL)

NUMBER OF ORDERS OF THE BASIS VECTORS OTHER THAN THE FIRST IS 7

ESTIMATED CELL MEANS, RESIDUALS AND RESIDUALS IN FORM OF T-STATISTICS WILL BE PRINTED

SYMBOLIC CONTRAST VECTORS

(1)		
	D0.D0.D0.D0.D0.D0.D0.D0.	
(2)		
	D1.0.0.0.0.0.0.0.	L/RATING
(3)		
	0.D1.0.0.0.0.0.0.	ENGINES
(4)		
	0.0.D1.0.0.0.0.0.	TOTALFLY
(5)		
	0.0.0.D1.0.0.0.0.	ANLALFLY
(6)		
	0.0.0.0.D1.0.0.0.	GACO
(7)		
	0.0.0.0.0.D1.0.0.	POWERPNT
(8)		
	0.0.0.0.0.0.D1.0.	OLD USE
(9)		
	0.0.0.0.0.0.0.D1.	NEW USE

ERROR CORRELATION MATRIX

	1 AMTNFD	2 ACCNFD	3 SUPDFD	4 SATBRF	5 CRDNFD	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PMPCON
1 AMTNFD	1.000000									
2 ACCNFD	0.457075	1.000000								
3 SUPDFD	0.544544	0.462882	1.000000							
4 SATBRF	0.572242	0.465482	0.611432	1.000000						
5 CRDNFD	0.415214	0.452972	0.453821	0.525630	1.000000					
6 MESLEN	0.410615	0.378881	0.420359	0.501367	0.560074	1.000000				
7 QUALVY	0.315621	0.403862	0.356113	0.411199	0.490518	0.473906	1.000000			
8 AMTNYZ	0.303452	0.392212	0.324768	0.409061	0.446379	0.413266	0.714469	1.000000		
9 SPKGRA	0.268456	0.389438	0.303706	0.398334	0.451581	0.456133	0.647218	0.636135	1.000000	
10 PMPCON	0.321529	0.351231	0.367494	0.409237	0.374619	0.371619	0.469669	0.468819	0.468801	1.000000
11 MTNPRF	0.479902	0.413868	0.534120	0.578077	0.442794	0.440319	0.405541	0.388752	0.357197	0.451960
12 MTAIN	0.352943	0.364866	0.414147	0.423025	0.388073	0.349496	0.357330	0.349592	0.314936	0.370680

13 EZCOMP	0.370362	0.448580	0.405787	0.500757	0.506491	0.454243	0.558905	0.542774	0.553761	0.492648
14 USENFO	0.548210	0.476768	0.557233	0.613778	0.507409	0.514862	0.461406	0.442518	0.440806	0.438500
15 RESPND	0.501213	0.459907	0.558074	0.616545	0.458820	0.491364	0.434485	0.421645	0.399047	0.416207
16 CLRPIC	0.478244	0.447718	0.541493	0.595640	0.486042	0.483366	0.423889	0.407354	0.395722	0.420348
17 UNNFO	0.239830	0.336426	0.259952	0.327793	0.358337	0.375602	0.333147	0.367896	0.366817	0.319490

	11 MINPRE	12 MININ	13 EZCOMP	14 USENFO	15 RESPND	16 CLRPIC	17 UNNFO
11 MINPRE	1.000000						
12 MININ	0.662905	1.000000					
13 EZCOMP	0.510892	0.435854	1.000000				
14 USENFO	0.588390	0.458527	0.586051	1.000000			
15 RESPND	0.592396	0.467760	0.563571	0.680863	1.000000		
16 CLRPIC	0.577882	0.480714	0.559736	0.637351	0.679361	1.000000	
17 UNNFO	0.318077	0.311820	0.429972	0.385760	0.405066	0.380532	1.000000

VARIABLE	VARIANCE (ERROR MEAN SQUARES)	STANDARD DEVIATION
1 AMTNFO	0.552022	0.7430
2 ACCNFO	0.636543	0.7981
3 SUPDEC	0.567607	0.7534
4 SATBRF	0.694994	0.8337
5 ORDNFO	0.767695	0.8762
6 MESLEN	0.849659	0.9218
7 QUALVY	0.634875	0.7968
8 AMTNYZ	0.608535	0.7801
9 SPKGRA	0.590944	0.7687
10 PMPCON	0.667291	0.8169
11 MINPRE	0.690222	0.8308
12 MININ	0.860568	0.9277
13 EZCOMP	0.656593	0.8103
14 USENFO	0.685273	0.8278
15 RESPND	0.704654	0.8394
16 CLRPIC	0.624165	0.7900
17 UNNFO	0.921688	0.9600

D.F.= 2578.

ERROR TERM FOR ANALYSIS OF VARIANCE (RESIDUAL)

LEAST SQUARE ESTIMATES OF EFFECTS -- EFFECTS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 SUPDEC	4 SATBRF	5 ORDNFO	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PMPCON
1	3.497766	3.280197	3.406802	3.508547	3.304590	3.257268	3.180762	3.136290	3.173129	3.275074

2	-0.094324	-0.033259	-0.064346	-0.093416	-0.050922	-0.070559	-0.080152	-0.058918	-0.038993	-0.063841
3	-0.028233	0.011748	-0.013022	-0.055236	-0.033319	-0.052896	-0.071339	-0.043762	-0.017405	-0.007753
4	0.052453	0.020097	0.055274	0.050527	0.018621	0.023569	-0.024787	-0.003852	-0.000180	0.021734
5	0.005760	0.009201	0.001488	-0.002710	-0.001976	-0.009456	0.018405	-0.007510	0.014557	0.026428
6	0.005557	0.004131	0.024228	0.023711	0.014034	-0.004122	-0.011172	-0.006252	-0.019591	0.036138
7	0.107194	0.056111	0.051114	0.036815	0.021705	0.077673	0.037582	0.005269	0.008825	0.039446
8	-0.024568	0.001084	-0.037495	-0.046707	-0.046318	-0.043357	-0.018895	-0.026895	-0.017833	-0.039968
9	-0.097103	-0.085664	-0.074691	-0.092541	-0.067880	-0.095507	-0.018295	-0.031696	-0.035762	-0.040956

	11 MINPRF	12 MININ	13 EZCOMP	14 USFNFC	15 RESPND	16 CLRPIC	17 UNNFO
1	3.392576	3.240889	3.296598	3.484523	3.422393	3.371718	3.036022
2	-0.074581	-0.057437	-0.050134	-0.062900	-0.075376	-0.058097	-0.034660
3	-0.039105	-0.031345	-0.000605	-0.019869	-0.029624	-0.042017	0.003449
4	0.018386	0.013779	0.014805	0.051504	0.035270	0.032628	0.006582
5	-0.006743	0.001925	0.024128	-0.002087	0.010546	-0.014725	-0.006665
6	0.013123	-0.002977	0.009739	0.004462	0.024735	0.017832	0.029817
7	0.125945	0.084861	0.051632	0.071849	0.111548	0.113547	0.070435
8	-0.063508	-0.054804	-0.033165	-0.045098	-0.049372	-0.041992	-0.029119
9	-0.086506	-0.086530	-0.071316	-0.100007	-0.092351	-0.092309	-0.036470

ESTIMATES OF EFFECTS IN STANDARD DEVIATION UNITS-EFF X VARS

	1 AMTNFO	2 ACCNFC	3 SUPDFC	4 SATBRF	5 CRDNFO	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGPA	10 PAPCON
1	4.707741	4.110073	4.521921	4.208592	3.771578	3.533711	3.991568	4.084536	4.127762	4.009254
2	-0.126953	-0.041673	-0.085408	-0.112055	-0.059118	-0.076547	-0.100594	-0.075528	-0.050725	-0.078153
3	-0.037999	0.014720	-0.017284	-0.066257	-0.038027	-0.057385	-0.089533	-0.056098	-0.022641	-0.009491
4	0.070597	0.025181	0.073366	0.060608	0.021253	0.025569	-0.031109	-0.004989	-0.000235	0.026606
5	0.007753	0.011529	0.001975	-0.003250	-0.002256	-0.010258	0.023099	-0.005627	0.018536	0.032353
6	0.007479	0.005177	0.032159	0.028442	0.016018	-0.004471	-0.014021	-0.008015	-0.025485	0.044240
7	0.144275	0.070307	0.067845	0.044161	0.024772	0.084265	0.047166	0.006754	0.011480	0.048288
8	-0.033066	0.001358	-0.049768	-0.056026	-0.052863	-0.047037	-0.023714	-0.034477	-0.023198	-0.048928
9	-0.130694	-0.112348	-0.099139	-0.111006	-0.077472	-0.103613	-0.022961	-0.040631	-0.046522	-0.050137

	11 MINPRF	12 MININ	13 EZCOMP	14 USFNFC	15 RESPND	16 CLRPIC	17 UNNFO
1	4.083524	3.453588	4.071307	4.209317	4.077011	4.267774	3.162371
2	-0.089771	-0.061915	-0.061870	-0.075984	-0.089793	-0.073537	-0.036102
3	-0.047069	-0.033789	-0.000746	-0.024002	-0.035291	-0.053183	0.003593
4	0.022130	0.014853	0.018271	0.062217	0.042017	0.041299	0.006856
5	-0.008116	0.002075	0.029777	-0.002521	0.012563	-0.018633	-0.006942
6	0.015796	-0.003209	0.012019	0.005391	0.029466	0.022571	0.031058
7	0.151596	0.091478	0.063719	0.086794	0.132884	0.143723	0.073366
8	-0.076442	-0.059079	-0.040929	-0.054478	-0.058815	-0.053152	-0.030231
9	-0.104124	-0.093276	-0.088012	-0.120809	-0.110016	-0.116841	-0.037987

STANDARD ERRORS OF LEAST-SQUARES ESTIMATES--EFFECTS BY VARS

	1 AMTNFO	2 ACCNFO	3 SUPDEC	4 SATBRF	5 ORDNFO	6 MESLEN	7 QUALVY
1	3.471255D-02	3.728709D-02	3.519915D-02	3.894921D-02	4.093574D-02	4.306561D-02	3.722652D-02
2	1.995210D-02	2.143190D-02	2.023179D-02	2.238726D-02	2.352908D-02	2.475328D-02	2.139709D-02
3	2.070078D-02	2.223611D-02	2.099057D-02	2.322732D-02	2.441158D-02	2.568213D-02	2.219999D-02
4	1.912417D-02	2.054256D-02	1.939225D-02	2.145827D-02	2.255271D-02	2.372612D-02	2.050919D-02
5	1.684252D-02	1.809169D-02	1.707862D-02	1.889815D-02	1.986201D-02	2.089543D-02	1.806230D-02
6	1.526916D-02	1.640164D-02	1.548321D-02	1.713276D-02	1.800659D-02	1.894346D-02	1.637500D-02
7	3.454418D-02	3.710625D-02	3.502843D-02	3.876030D-02	4.073720D-02	4.285674D-02	3.704597D-02
8	1.646003D-02	1.768083D-02	1.669077D-02	1.846858D-02	1.941055D-02	2.042090D-02	1.765211D-02
9	1.560769D-02	1.676528D-02	1.582648D-02	1.751261D-02	1.840581D-02	1.936345D-02	1.673804D-02

	8 AMTNYZ	9 SPKGRA	10 PMPCON	11 MINPRE	12 MININ	13 EZCCMP	14 USFNFO
1	3.644608D-02	3.591545D-02	3.816504D-02	3.881527D-02	4.334118D-02	3.785789D-02	3.867585D-02
2	2.094850D-02	2.064351D-02	2.193653D-02	2.231027D-02	2.491167D-02	2.175999D-02	2.223013D-02
3	2.173457D-02	2.141813D-02	2.275568D-02	2.314744D-02	2.584646D-02	2.257651D-02	2.306430D-02
4	2.007927D-02	1.978688D-02	2.102625D-02	2.138448D-02	2.387794D-02	2.085730D-02	2.130767D-02
5	1.768363D-02	1.742617D-02	1.851767D-02	1.883316D-02	2.102913D-02	1.836864D-02	1.876552D-02
6	1.603170D-02	1.579829D-02	1.678783D-02	1.707385D-02	1.906468D-02	1.665272D-02	1.701252D-02
7	3.626931D-02	3.574125D-02	3.797993D-02	3.862701D-02	4.313057D-02	3.767427D-02	3.848827D-02
8	1.728204D-02	1.703042D-02	1.809714D-02	1.840547D-02	2.055156D-02	1.795149D-02	1.833935D-02
9	1.638713D-02	1.614855D-02	1.716002D-02	1.745239D-02	1.948735D-02	1.702152D-02	1.738970D-02

	15 RESPND	16 CLRPTC	17 UNNFC
1	3.921897D-02	3.691118D-02	4.485350D-02
2	2.254231D-02	2.121584D-02	2.578116D-02
3	2.338818D-02	2.201194D-02	2.674857D-02
4	2.160689D-02	2.033546D-02	2.471134D-02
5	1.902904D-02	1.790930D-02	2.176311D-02
6	1.725142D-02	1.623629D-02	1.973005D-02
7	3.902875D-02	3.673216D-02	4.463635D-02
8	1.859689D-02	1.750258D-02	2.126887D-02
9	1.763390D-02	1.659626D-02	2.016752D-02

LEAST-SQUARES ESTIMATES AS T-STATISTICS - EFFECTS X VARS

	1 AMTNFO	2 ACCNFO	3 SUPDEC	4 SATBRF	5 ORDNFO	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PMPCON
1	100.7638	87.9714	96.7865	90.0800	90.7263	75.6350	85.4435	97.4248	88.3500	85.8134
2	-4.7275	-1.5518	-3.1805	-4.1727	-2.1642	-2.8505	-3.7460	-2.8125	-1.8889	-2.9103
3	-1.3638	0.5283	-0.6204	-2.3781	-1.3649	-2.0596	-3.2135	-2.0135	-0.8126	-0.3407

4	2.7427	0.5783	2.8503	2.3547	0.8257	0.9934	-1.2086	-0.1938	-0.0091	1.0336
5	0.3420	0.5086	0.0871	-0.1434	-0.0955	-0.4525	1.0190	-0.4247	0.8353	1.4272
6	0.3639	0.2519	1.5648	1.3840	0.7794	-0.2176	-0.6823	-0.2900	-1.2401	2.1527
7	3.1031	1.5122	1.4592	0.5458	0.5328	1.8124	1.0145	0.1453	0.2469	1.0386
8	-1.4926	0.0613	-2.2464	-2.5289	-2.3862	-2.1232	-1.0704	-1.5562	-1.0471	-2.2085
9	-6.2215	-5.3482	-4.7194	-5.2843	-3.6879	-4.9324	-1.0930	-1.5342	-2.2146	-2.3867

	11 MINPRE	12 MININ	13 EZCOMP	14 USENFO	15 RESPND	16 CLRPTC	17 UNNFO
1	87.4031	74.7762	87.1416	90.0956	87.2637	91.3463	67.6869
2	-3.3429	-2.3056	-2.3039	-2.8295	-3.3437	-2.7384	-1.3444
3	-1.6894	-1.2127	-0.0768	-0.8615	-1.2666	-1.9088	0.1289
4	0.8598	0.5771	0.7098	2.4171	1.6324	1.6045	0.2663
5	-0.3580	0.0516	1.3136	-0.1112	0.5542	-0.8222	-0.3062
6	0.7686	-0.1562	0.5848	0.2623	1.4338	1.0983	1.5112
7	3.2605	1.5675	1.3705	1.8668	2.8581	3.0912	1.5780
8	-3.4505	-2.6667	-1.8475	-2.4591	-2.6548	-2.3992	-1.3691
9	-4.9567	-4.4403	-4.1897	-5.7509	-5.2371	-5.5620	-1.8082

DEGREES OF FREEDOM = 2578.

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 SUPDFC	4 SATBRE	5 ORDNFO	6 MESLEN	7 QUALVY	8 AMTRYZ	9 SPKGRA	10 PMPCON
1	3.424503	3.259646	3.349352	3.328990	3.158535	3.082613	3.012108	3.012624	3.066747	3.246301
2	3.618709	3.438574	3.498735	3.514072	3.294254	3.273628	3.048699	3.076026	3.138272	3.328213
3	3.473638	3.257479	3.424342	3.422404	3.251171	3.169327	3.049899	2.066424	3.102412	3.326238
4	3.667844	3.436806	3.573724	3.607486	3.386930	3.360342	3.086489	3.129816	3.173937	3.408149
5	3.210115	3.147424	3.247124	3.255260	3.115126	2.927267	2.936945	3.002057	3.049096	3.167410
6	3.404320	3.326752	3.356506	3.440442	3.250885	3.118281	2.973535	3.065489	3.120621	3.249321
7	3.259250	3.145257	3.322113	3.348774	3.207762	3.013981	2.974735	3.055887	3.084762	3.247347
8	3.453456	3.324585	3.471496	3.533856	3.343521	3.204996	3.011325	3.119279	3.156286	3.329258
9	3.413350	3.251384	3.300855	3.281567	3.130466	3.090356	3.034453	3.025139	3.105928	3.174024
10	3.607595	3.430711	3.450278	3.466650	3.266225	3.281871	3.071043	3.088530	3.177453	3.255936
11	3.462525	3.249216	3.375885	3.374581	3.223102	3.177570	3.072243	3.078929	3.141594	3.253961
12	3.656731	3.428544	3.525768	3.560064	3.358361	3.368585	3.108833	3.142320	3.213119	3.335872
13	3.199001	3.139162	3.198667	3.207937	3.087057	2.935510	2.959289	3.014602	3.088278	3.095133
14	3.393207	3.318489	3.348050	3.393020	3.222316	3.126525	2.995879	3.077993	3.159802	3.177044
15	3.248137	3.136994	3.273657	3.301351	3.179693	3.022224	2.997080	3.068392	3.123943	3.175070
16	3.442343	3.316322	3.423039	3.486434	3.315452	3.213239	3.033670	3.131783	3.195468	3.256981
17	3.412982	3.241244	3.346376	3.334409	3.162438	3.101524	2.975299	3.027654	3.037633	3.193445
18	3.607188	3.420571	3.495759	3.515492	3.298247	3.292539	3.011889	3.091045	3.109158	3.275356
19	3.462117	3.239076	3.421366	3.427823	3.255124	3.188239	3.013089	3.081444	3.073299	3.273382
20	3.656323	3.418404	3.570749	3.612906	3.350883	3.379254	3.049679	3.144835	3.144824	3.355293
21	3.198594	3.129022	3.244148	3.260779	3.119079	2.946178	2.900135	3.017117	3.019983	3.114554
22	3.352800	3.308349	3.393531	3.445862	3.254838	3.137193	2.936725	3.080508	3.091507	3.196465
23	3.247729	3.126854	3.319138	3.354193	3.211715	3.032892	2.937925	3.070907	3.055648	3.194490
24	3.441935	3.306182	3.468520	3.539276	3.347474	3.223907	2.974515	3.134298	3.127173	3.276402
25	3.401869	3.272981	3.297920	3.286587	3.134419	3.109767	2.997643	3.040158	3.076815	3.121168

26	3.596075	3.412308	3.447302	3.472069	3.270178	3.300782	3.034233	3.103550	3.148340	3.203080
27	3.451004	3.230814	3.372909	3.380401	3.227055	3.196482	3.035433	3.092949	3.112481	3.201105
28	3.645210	3.410141	3.522292	3.565483	3.362814	3.387497	3.072023	3.157340	3.184005	3.283016
29	3.187481	3.120759	3.195691	3.213357	3.091010	2.954421	2.922479	3.029621	3.059164	3.042277
30	3.381687	3.200087	3.345074	3.398439	3.226769	3.145436	2.959069	3.092013	3.130689	3.124188
31	3.236616	3.118592	3.270681	3.306771	3.183646	3.041135	2.960270	3.083412	3.094830	3.122213
32	3.430822	3.297919	3.420064	3.491853	3.319405	3.232150	2.996860	3.146803	3.166355	3.204125
33	3.319597	3.219453	3.238804	3.227936	3.121293	3.035476	3.061683	3.020417	3.067107	3.202834
34	3.513803	3.358780	3.388186	3.413019	3.257052	3.226490	3.098273	3.083809	3.138632	3.284745
35	3.368733	3.217285	3.313793	3.321350	3.213929	3.122190	2.099473	3.074208	3.102773	3.282771
36	3.562935	3.356613	3.463176	3.506432	3.345688	3.313205	3.136063	3.137599	3.174298	3.364682
37	3.105209	3.107231	3.136575	3.154306	3.077884	2.880129	2.986519	3.009880	3.049457	3.123943
38	3.295415	3.286559	3.285958	3.339389	3.213643	3.071144	3.023109	3.072272	3.120981	3.205854
39	3.154345	3.105064	3.211565	3.241720	3.170520	2.966844	3.024310	3.063670	3.085122	3.203879
40	3.348550	3.284391	3.360548	3.432802	3.306279	3.157858	3.060900	3.127062	3.156647	3.285791
41	3.308484	3.211190	3.190347	3.180513	3.093224	3.043719	3.084027	3.032922	3.106289	3.130557
42	3.502690	3.395518	3.339730	3.365596	3.228983	3.234734	3.120617	3.096314	3.177814	3.212468
43	3.357620	3.209023	3.265337	3.273927	3.185860	3.130433	3.121817	3.086712	3.141955	3.210494
44	3.551826	3.388350	3.414719	3.459010	3.321619	3.321448	3.158407	3.150104	3.213479	3.292405
45	3.094096	3.098568	3.088119	3.106883	3.049815	2.888372	3.008864	3.022385	3.088638	3.051666
46	3.288302	3.278296	3.237501	3.291566	3.185574	3.079387	3.045454	3.085777	3.160163	3.133577
47	3.143232	3.096801	3.163108	3.200297	3.142451	2.975087	3.046654	3.076175	3.124304	3.131602
48	3.337437	3.276129	3.312491	3.385380	3.278210	3.166102	3.083244	3.139567	3.195829	3.213514
49	3.308077	3.201050	3.235828	3.233355	3.125246	3.054387	3.024872	3.035437	3.037994	3.149978
50	3.502283	3.380378	3.385211	3.418438	3.261005	3.245402	3.061463	3.098828	3.109519	3.231889

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 SUPOFC	4 SATBRF	5 CRDNFO	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PMPCON
51	3.357212	3.158883	3.310818	3.326769	3.217881	3.141101	3.062663	3.085227	3.073660	3.229915
52	3.551418	3.378210	3.460200	3.511852	3.353640	3.332116	3.099253	3.152618	3.145184	3.311826
53	3.093689	3.088828	3.133600	3.159725	3.081836	2.899041	2.945709	3.024900	3.020343	3.071086
54	3.287895	3.268156	3.282982	3.344808	3.217595	3.090056	2.986295	3.088291	3.091868	3.152998
55	3.142824	3.088261	3.208589	3.253139	3.174472	2.985755	2.987500	3.078690	3.056009	3.151023
56	3.337030	3.265589	3.357972	3.438222	3.310231	3.176770	3.024090	3.142081	3.127534	3.232935
57	3.296964	3.192788	3.187372	3.185933	3.097177	3.062630	3.047217	3.047942	3.077176	3.077701
58	3.491170	3.272115	3.336754	3.371016	3.232936	3.253645	3.083807	3.111333	3.148701	3.159612
59	3.346099	3.150620	3.262361	3.279347	3.189812	3.149344	3.085007	3.101732	3.112841	3.157638
60	3.540305	3.369548	3.411744	3.464429	3.325571	3.340359	3.121597	3.165123	3.184366	3.239549
61	3.082576	3.080566	3.085143	3.112303	3.053767	2.907284	2.972054	3.037405	3.059525	2.958810
62	3.276782	3.259853	3.234526	3.297386	3.189526	3.098299	3.008644	3.100796	3.131050	3.080721
63	3.131711	3.078358	3.160133	3.205717	3.146403	2.993998	3.009844	3.091155	3.095191	3.078746
64	3.325917	3.257726	3.305515	3.390799	3.282162	3.185013	3.046434	3.154586	3.166715	3.160658
65	3.480968	3.236150	3.375396	3.439462	3.225173	3.188405	3.154787	3.100158	3.101557	3.261807
66	3.675174	3.415478	3.524778	3.624545	3.360932	3.379420	3.191377	3.163549	3.173081	3.343719
67	3.530103	3.233983	3.450385	3.522876	3.317808	3.275119	3.192577	3.153948	3.137222	3.341744
68	3.724309	3.413310	3.599768	3.717959	3.453567	3.466134	3.229167	3.217339	3.208747	3.423656
69	3.266580	3.123928	3.273167	3.365832	3.181764	3.033059	3.079623	3.089620	3.083906	3.182916
70	3.460786	3.303256	3.422550	3.550915	3.317523	3.224074	3.116214	3.153012	3.155431	3.264827
71	3.315715	3.121761	3.348157	3.459246	3.274399	3.119773	3.117414	3.143411	3.119571	3.262853
72	3.509921	3.301089	3.497540	3.644329	3.410158	3.310788	3.154004	3.206802	3.191096	3.344764
73	3.469855	3.227887	3.326939	3.392040	3.197104	3.196648	3.177131	3.112662	3.140738	3.189531
74	3.664061	3.407215	3.476322	3.577123	3.332863	3.387663	3.213721	3.176054	3.212262	3.271442
75	3.518990	3.225720	3.401929	3.485454	3.285739	3.283363	3.214921	3.166452	3.176404	3.269467
76	3.713196	3.405048	3.551311	3.670537	3.425499	3.474377	3.251511	3.229844	3.247929	3.351379
77	3.255467	3.115666	3.224711	3.318410	3.153655	3.041302	3.101968	3.102125	3.123088	3.110639

78	3.449673	3.294553	3.374093	3.503493	3.289454	3.232317	3.133558	3.165517	3.194612	3.192551
79	3.304602	3.113458	3.299700	3.411824	3.246330	3.128016	3.139758	3.155915	3.158753	3.190576
80	3.458808	3.292826	3.449083	3.556507	3.382069	3.316031	3.176348	3.215307	3.230278	3.272487
81	3.469447	3.217748	3.372420	3.444881	3.229125	3.207317	3.117977	3.115177	3.072443	3.208951
82	3.663653	3.357075	3.571803	3.629564	3.364884	3.398332	3.154567	3.178568	3.143968	3.290863
83	3.518583	3.215580	3.447410	3.538295	3.321761	3.294031	3.155767	3.168967	3.108109	3.288888
84	3.712789	3.394508	3.556752	3.723378	3.457520	3.485046	3.192357	3.232358	3.179634	3.370799
85	3.255059	3.105526	3.270192	3.371251	3.185716	3.051970	3.042814	3.104640	3.054793	3.130060
86	3.449265	3.284853	3.419574	3.556334	3.321475	3.242985	3.079404	3.168031	3.126317	3.211971
87	3.304195	3.102358	3.345181	3.464665	3.278352	3.138685	3.080604	3.158430	3.090458	3.209957
88	3.498400	3.282686	3.494564	3.645748	3.414111	3.325700	3.117154	3.221821	3.161583	3.291908
89	3.458334	3.209485	3.323963	3.397459	3.201056	3.215560	3.140321	3.127682	3.111625	3.136674
90	3.652540	3.388812	3.473346	3.582542	3.336815	3.406575	3.176911	3.191073	3.183150	3.218586
91	3.507470	3.207318	3.358953	3.450873	3.253692	3.302274	3.178111	3.181472	3.147291	3.216611
92	3.701675	3.386645	3.548336	3.675956	3.429451	3.493289	3.214702	3.244863	3.218815	3.298522
93	3.243946	3.097263	3.221735	3.323829	3.157647	3.060214	3.065158	3.117145	3.093974	3.057783
94	3.438152	3.276591	3.371118	3.508912	3.253406	3.251228	3.101748	3.180536	3.165499	3.139694
95	3.293081	3.055056	3.296725	3.417243	3.250283	3.146928	3.102948	3.170935	3.129640	3.137720
96	3.487287	3.274423	3.446107	3.602326	3.386042	3.337543	3.139538	3.234326	3.201165	3.219631
97	3.376063	3.195957	3.264848	3.338408	3.187930	3.141268	3.204361	3.107941	3.101917	3.218340
98	3.570268	3.375284	3.414230	3.523491	3.323689	3.332283	3.240951	3.171232	3.173442	3.300252
99	3.425198	3.193789	3.339837	3.431822	3.280566	3.227982	3.242152	3.161731	3.137583	3.298277
100	3.619404	3.373117	3.489220	3.616905	3.416325	3.418997	3.278742	3.225122	3.209108	3.380188

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	1 AMTNFO	2 ACCNFC	3 SUPCFC	4 SATERF	5 CRDNFO	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PMPCON
101	3.161674	3.083735	3.162615	3.264778	3.144521	2.985922	3.129158	3.097404	3.084267	3.139449
102	3.355880	3.263062	3.312002	3.449861	3.280280	3.176937	3.165788	3.160795	3.155791	3.221360
103	3.210810	3.081568	3.237609	3.359192	3.237157	3.072636	3.166988	3.151154	3.119932	3.219386
104	3.405016	3.260895	3.386991	3.543275	3.372916	3.263651	3.203578	3.214585	3.191457	3.301297
105	3.364949	3.187654	3.216391	3.290586	3.159861	3.149511	3.226705	3.120445	3.141099	3.146063
106	3.559155	3.367022	3.365774	3.476069	3.295620	3.340526	3.263296	3.182837	3.212624	3.227975
107	3.414085	3.185527	3.291381	3.384400	3.252497	3.236225	3.264496	3.174236	3.176765	3.226000
108	3.608291	3.364854	3.440763	3.565483	3.388256	3.427240	3.301086	3.237627	3.248289	3.307911
109	3.150561	3.075472	3.114163	3.217356	3.116452	2.994165	3.151542	3.109908	3.123448	3.067172
110	3.344767	3.254800	3.263545	3.402439	3.252211	3.185180	3.188132	3.173300	3.194973	3.149083
111	3.199697	3.073305	3.185152	3.310770	3.209088	3.080879	3.189332	3.163699	3.159114	3.147109
112	3.393903	3.252632	3.338535	3.455853	3.344847	3.271354	3.225922	3.227090	3.230639	3.229020
113	3.364542	3.177554	3.261872	3.343828	3.191883	3.160179	3.167551	3.122960	3.072804	3.165484
114	3.558748	3.356882	3.411255	3.528910	3.327642	3.351194	3.204141	3.186352	3.144329	3.247395
115	3.413677	3.175387	3.336862	3.437241	3.284519	3.246954	3.205342	3.176750	3.108469	3.245421
116	3.607883	3.354714	3.486244	3.622324	3.420278	3.437909	3.241932	3.240142	3.179994	3.327332
117	3.150154	3.065332	3.159644	3.270158	3.148474	3.004833	3.092388	3.112423	3.055153	3.086593
118	3.344360	3.244660	3.309026	3.455280	3.284233	3.195848	3.128978	3.175814	3.126678	3.168504
119	3.199289	3.063165	3.234633	3.363611	3.241110	3.091547	3.130178	3.166213	3.090819	3.166529
120	3.393495	3.242493	3.384016	3.548654	3.376969	3.282562	3.166768	3.229605	3.162344	3.248441
121	3.353429	3.169291	3.213415	3.296405	3.163814	3.168422	3.189896	3.135465	3.111986	3.093207
122	3.547635	3.348619	3.362798	3.481488	3.299573	3.359437	3.226486	3.198856	3.183510	3.175119
123	3.402564	3.167124	3.288405	3.389819	3.256450	3.255137	3.227686	3.189255	3.147651	3.173144
124	3.596770	3.346452	3.437788	3.574902	3.392209	3.446152	3.264276	3.252646	3.219176	3.255055
125	3.139041	3.057070	3.111187	3.222775	3.120435	3.013076	3.114732	3.124928	3.094335	3.014316
126	3.333247	3.236357	3.260570	3.407658	3.256164	3.204091	3.151322	3.188319	3.165860	3.096227
127	3.188176	3.054502	3.186177	3.316189	3.213041	3.099791	3.152522	3.178718	3.130000	3.094253
128	3.382382	3.234233	3.335555	3.501272	3.348800	3.293805	3.189112	3.242109	3.201525	3.176164
129	3.613151	3.326163	3.478045	3.515822	3.260380	3.223731	3.172413	3.130471	3.144734	3.373983

130	3.807357	3.505451	3.627428	3.700505	3.356139	3.414746	3.209003	3.193862	3.216258	3.455895
131	3.662286	3.323996	3.553034	3.609236	3.353016	3.310445	3.210204	3.184261	3.180399	3.453920
132	3.856492	3.503324	3.702417	3.754318	3.488775	3.501460	3.246794	3.247652	3.251924	3.535832
133	3.398763	3.213542	3.375816	3.442192	3.216571	3.068385	3.097250	3.119934	3.127083	3.295092
134	3.592969	3.393269	3.525199	3.627275	3.352730	3.259399	3.133840	3.183325	3.198608	3.377003
135	3.447898	3.211714	3.450806	3.535606	3.309607	3.155099	3.135040	3.173724	3.162748	3.375029
136	3.642104	3.391102	3.600189	3.720688	3.445366	3.346114	3.171630	3.237115	3.234273	3.456940
137	3.607038	3.317901	3.429588	3.468400	3.232311	3.231974	3.194758	3.142976	3.183915	3.301707
138	3.796744	3.457228	3.578571	3.653482	3.368070	3.422989	3.231348	3.208367	3.255440	3.383618
139	3.651173	3.315734	3.504578	3.561813	3.324947	3.318688	3.232548	3.196766	3.219581	3.381643
140	3.845379	3.495061	3.653961	3.746896	3.460706	3.509703	3.269138	3.260157	3.291106	3.463555
141	3.387650	3.205679	3.327360	3.354770	3.188902	3.076628	3.119594	3.132439	3.166265	3.222815
142	3.581856	3.385007	3.476743	3.575852	3.324661	3.267643	3.156184	3.195830	3.237789	3.304727
143	3.436785	3.203512	3.402350	3.488183	3.281538	3.163342	3.157384	3.186229	3.201930	3.302752
144	3.630991	3.382839	3.551732	3.673266	3.417257	3.354357	3.193574	3.249620	3.273455	3.384663
145	3.601630	3.307761	3.475069	3.521241	3.264332	3.242642	3.135603	3.145490	3.115620	3.321127
146	3.795836	3.487088	3.624452	3.706324	3.400051	3.433657	3.172193	3.208882	3.187145	3.403039
147	3.650766	3.305594	3.550059	3.614655	3.356568	3.329357	3.173394	3.199280	3.151286	3.401064
148	3.844972	3.484521	3.699442	3.795738	3.492727	3.520371	3.209984	3.262672	3.222811	3.482975
149	3.387242	3.195539	3.372841	3.447611	3.220923	3.087296	3.060440	3.134953	3.097970	3.242236
150	3.581448	3.374867	3.522224	3.632654	3.356682	3.278311	3.057030	3.198345	3.169494	3.324147

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 SUPDEC	4 SAT8RF	5 CRDNFC	6 MESLEN	7 QUALVY	8 AMTAYZ	9 SPKGRA	10 PMPCON
151	3.436378	3.193372	3.447830	3.541025	3.313559	3.174010	3.098230	3.188743	3.133635	3.322173
152	3.630583	3.372699	3.597213	3.726108	3.449318	3.365025	3.134820	3.252135	3.205160	3.404084
153	3.590517	3.295458	3.476613	3.473819	3.236263	3.250885	3.157948	3.157955	3.154802	3.248850
154	3.784723	3.478826	3.575555	3.658902	3.372022	3.441900	3.194538	3.221386	3.226327	3.330762
155	3.639653	3.297331	3.501602	3.567233	3.328899	3.337600	3.195738	3.211785	3.190468	3.328787
156	3.833859	3.476658	3.650985	3.752315	3.464658	3.528615	3.232328	3.275177	3.261992	3.410699
157	3.376129	3.187276	3.324384	3.400189	3.192854	3.095539	3.082784	3.147458	3.137151	3.165959
158	3.570335	3.366604	3.473767	3.585272	3.328613	3.286554	3.119374	3.210849	3.208676	3.251870
159	3.425265	3.185109	3.399374	3.493603	3.285490	3.182253	3.120574	3.201248	3.172817	3.249896
160	3.619470	3.364437	3.548757	3.678685	3.421249	3.373268	3.157165	3.264640	3.244342	3.331807
161	3.508746	3.285570	3.367497	3.414768	3.223137	3.176593	3.221988	3.138254	3.145094	3.330516
162	3.702451	3.465258	3.516879	3.559851	3.358896	3.367608	3.258578	3.201645	3.216619	3.412428
163	3.557381	3.283803	3.442486	3.508182	3.315773	3.263308	3.259778	3.192044	3.180760	3.410453
164	3.751587	3.463130	3.591869	3.693265	3.451532	3.454323	3.296368	3.255436	3.252285	3.492364
165	3.293857	3.173748	3.265268	3.341138	3.179728	3.021247	3.146824	3.127717	3.127444	3.251625
166	3.488063	3.353076	3.414651	3.526221	3.315487	3.212262	3.183414	3.191108	3.198968	3.333536
167	3.342993	3.171581	3.340258	3.434552	3.272364	3.107961	3.184615	3.181507	3.163109	3.331562
168	3.537199	3.350968	3.485641	3.619635	3.408123	3.298976	3.221205	3.244898	3.234634	3.413473
169	3.497133	3.277707	3.319040	3.367346	3.195068	3.184837	3.244332	3.150759	3.184276	3.258239
170	3.691338	3.457035	3.468423	3.552428	3.330827	3.375851	3.280922	3.214150	3.255801	3.340151
171	3.546268	3.275540	3.394030	3.460760	3.287704	3.271551	3.282122	3.204549	3.219942	3.338176
172	3.740474	3.454868	3.543412	3.645842	3.423463	3.462566	3.318712	3.267940	3.291466	3.420087
173	3.282744	3.165486	3.216812	3.293716	3.151659	3.029490	3.169168	3.140222	3.166625	3.179348
174	3.476950	3.344813	3.366194	3.478798	3.287418	3.220505	3.205759	3.203613	3.238150	3.261259
175	3.331880	3.163318	3.291801	3.387130	3.244295	3.116205	3.206959	3.194012	3.202291	3.259285
176	3.526086	3.342646	3.441184	3.572212	3.380054	3.307223	3.243549	3.257403	3.273816	3.241196
177	3.496725	3.267567	3.364521	3.420187	3.227090	3.195505	3.185178	3.153274	3.115981	3.277660
178	3.690931	3.446855	3.513904	3.605270	3.362849	3.336520	3.221768	3.216665	3.187506	3.359571
179	3.545860	3.265400	3.439511	3.513601	3.319726	3.282219	3.222968	3.207064	3.151646	3.357597
180	3.740066	3.444728	3.588893	3.698684	3.455485	3.473234	3.259558	3.270455	3.223171	3.439508
181	3.282337	3.155346	3.262793	3.346557	3.183681	3.040159	3.110014	3.142737	3.098230	3.198769

182	3.476543	3.334673	3.411675	3.531640	3.315440	3.231174	3.146604	3.206128	3.169855	3.280680
183	3.331472	3.153178	3.337282	3.435971	3.276317	3.126873	3.147805	3.196527	3.133996	3.278705
184	3.525678	3.332506	3.486665	3.625054	3.412076	3.317888	3.184395	3.259918	3.205521	3.360617
185	3.485612	3.259305	3.316064	3.372765	3.199021	3.203748	3.207522	3.165778	3.155163	3.205383
186	3.679818	3.431632	3.465447	3.557848	3.334780	3.394763	3.244112	3.225170	3.226687	3.287295
187	3.534747	3.257137	3.391054	3.466179	3.251657	3.290462	3.245312	3.219568	3.190828	3.285320
188	3.728953	3.436465	3.540437	3.651262	3.427416	3.481477	3.281902	3.282960	3.262353	3.367231
189	3.271224	3.147083	3.213836	3.299135	3.155612	3.048402	3.132359	3.155241	3.137512	3.126492
190	3.465430	3.326411	3.363219	3.484218	3.291371	3.239417	3.168945	3.218633	3.209037	3.208403
191	3.320359	3.144916	3.288826	3.392549	3.248248	3.135116	3.170149	3.205031	3.173177	3.206429
192	3.514565	3.324243	3.438208	3.577632	3.384007	3.326131	3.206739	3.272423	3.244702	3.288340
193	3.669616	3.302667	3.504089	3.626294	3.327017	3.329523	3.315092	3.217994	3.179544	3.389490
194	3.863822	3.481555	3.653471	3.811377	3.462776	3.520538	3.351682	3.281386	3.251068	3.471401
195	3.718751	3.300500	3.579078	3.719708	3.419653	3.416237	3.352882	3.271784	3.215209	3.469426
196	3.912957	3.479828	3.728461	3.904791	3.555412	3.607252	3.389472	3.335176	3.286734	3.551338
197	3.455228	3.190446	3.401860	3.552664	3.283608	3.174177	3.239928	3.207457	3.161893	3.310598
198	3.649434	3.269773	3.551243	3.737747	3.419367	3.365192	3.276518	3.270848	3.233418	3.392510
199	3.504363	3.188278	3.476850	3.646078	3.376244	3.260891	3.277719	3.261247	3.197558	3.390535
200	3.698569	3.367606	3.626233	3.831161	3.512003	3.451906	3.314309	3.324639	3.269083	3.472446

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	1 AMTNFO	2 ACCNFC	3 SUPCFC	4 SATRRF	5 CRDNFO	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PMPCON
201	3.658503	3.294405	3.455632	3.578872	3.298548	3.337766	3.337436	3.230499	3.218725	3.317213
202	3.852709	3.473732	3.605015	3.763555	3.434707	3.528781	3.374026	3.253890	3.290250	3.399124
203	3.707638	3.292237	3.530622	3.672286	3.391584	3.424480	3.375226	3.284289	3.254391	3.397150
204	3.901844	3.471565	3.680004	3.857369	3.527343	3.615495	3.411816	3.347680	3.325916	3.479061
205	3.444115	3.182183	3.353404	3.505242	3.255539	3.182420	3.262273	3.219962	3.201074	3.238321
206	3.638321	3.361510	3.502786	3.690325	3.391298	3.373435	3.298863	3.283353	3.272599	3.320233
207	3.493250	3.180016	3.428393	3.598656	3.348175	3.269134	3.300063	3.273752	3.236740	3.318258
208	3.687456	3.353243	3.577776	3.783739	3.483934	3.460149	3.336652	3.337143	3.308265	3.400170
209	3.658096	3.284265	3.501113	3.631714	3.330970	3.348435	3.278282	3.233014	3.150430	3.336634
210	3.852301	3.463592	3.650496	3.816796	3.466729	3.539450	3.314872	3.256405	3.221955	3.418545
211	3.707231	3.282097	3.576103	3.725128	3.423606	3.435149	3.316072	3.286804	3.186096	3.416570
212	3.901437	3.461425	3.725485	3.910210	3.559365	3.626164	3.352662	3.350195	3.257621	3.498482
213	3.443707	3.172043	3.398885	3.558084	3.287561	3.193088	3.203118	3.222477	3.132779	3.257742
214	3.637913	3.351371	3.548267	3.743166	3.423320	3.384103	3.239708	3.285868	3.204304	3.339654
215	3.492843	3.169876	3.473874	3.651498	3.380197	3.279803	3.240909	3.276267	3.168445	3.337679
216	3.687049	3.349203	3.623257	3.836580	3.515956	3.470818	3.277499	3.339658	3.239970	3.419590
217	3.646982	3.276002	3.452656	3.584291	3.302901	3.356678	3.300626	3.245518	3.189612	3.264357
218	3.841188	3.455330	3.602039	3.769374	3.438660	3.547693	3.337216	3.308910	3.261137	3.346268
219	3.656118	3.273835	3.527646	3.677705	3.355537	3.443392	3.338416	3.299308	3.225277	3.344293
220	3.890324	3.453162	3.677029	3.862788	3.531256	3.634407	3.375006	3.362700	3.296802	3.426205
221	3.432594	3.163780	3.350428	3.510661	3.259492	3.201331	3.225463	3.234981	3.171961	3.185465
222	3.626800	3.343108	3.499811	3.695744	3.355251	3.392346	3.262053	3.298373	3.243486	3.267377
223	3.481730	3.161613	3.425418	3.604075	3.352128	3.288046	3.263253	3.288771	3.207627	3.265402
224	3.675936	3.340941	3.574800	3.789158	3.437887	3.479061	3.299843	3.352163	3.279152	3.347313
225	3.564711	3.262474	3.393540	3.525240	3.289775	3.282386	3.364666	3.225777	3.179904	3.346023
226	3.758917	3.441801	3.542923	3.710323	3.425534	3.473401	3.401256	3.289169	3.251429	3.427934
227	3.613846	3.260307	3.468530	3.618654	3.382411	3.369100	3.402456	3.279567	3.215570	3.425959
228	3.808052	3.435634	3.617913	3.803737	3.518170	3.560115	3.439046	3.342959	3.287095	3.507871
229	3.350323	3.150252	3.291312	3.451610	3.246366	3.127040	3.289503	3.215240	3.162253	3.267131
230	3.544529	3.229580	3.440655	3.636693	3.382125	3.318054	3.326093	3.278632	3.233778	3.349042
231	3.399458	3.148085	3.366302	3.545024	3.339002	3.213754	3.327293	3.269030	3.197919	3.347068
232	3.593664	3.327412	3.515684	3.730107	3.474761	3.404769	3.363883	3.332422	3.269444	3.428979
233	3.553598	3.254211	3.345084	3.477818	3.261706	3.290629	3.387010	3.238282	3.219086	3.273746

234	3.747804	3.433539	3.494467	3.662901	3.397465	3.481644	3.423600	3.301673	3.290611	3.355657
235	3.602733	3.252044	3.420074	3.571232	3.354342	3.377343	3.424801	3.292072	3.254751	3.353682
236	3.796939	3.431372	3.569456	3.756315	3.490101	3.568358	3.461351	3.355464	3.326276	3.435594
237	3.339210	3.141590	3.242856	3.404188	3.218297	3.135283	3.311847	3.227745	3.201435	3.194854
238	3.533415	3.321317	3.392238	3.589271	3.354056	3.326258	3.348437	3.291136	3.272960	3.276766
239	3.388345	3.139822	3.317845	3.497602	3.310933	3.221997	3.349637	3.281535	3.237101	3.274791
240	3.582551	3.315150	3.427228	3.682685	3.446652	3.413012	3.386227	3.344927	3.308626	3.356702
241	3.553190	3.244071	3.390565	3.530660	3.292728	3.301297	3.327856	3.240797	3.150791	3.293166
242	3.747396	3.423399	3.539948	3.715743	3.429487	3.492312	3.364446	3.304188	3.222316	3.375078
243	3.602326	3.241504	3.465554	3.624074	3.386363	3.388012	3.365646	3.294587	3.186456	3.373103
244	3.796531	3.421232	3.614937	3.809156	3.522122	3.579026	3.402236	3.357578	3.257981	3.455014
245	3.338802	3.131650	3.288336	3.457030	3.250318	3.145951	3.252693	3.230260	3.133140	3.214275
246	3.533008	3.311177	3.437715	3.642113	3.366077	3.336966	3.289283	3.293651	3.204665	3.296186
247	3.387937	3.129682	3.363326	3.550444	3.342954	3.232665	3.290483	3.284050	3.168806	3.294212
248	3.582143	3.305010	3.512709	3.735526	3.478713	3.423680	3.327073	3.347441	3.240331	3.376123
249	3.542077	3.235809	3.342108	3.483237	3.265659	3.309540	3.350200	3.253302	3.189973	3.220889
250	3.736283	3.415136	3.491491	3.668320	3.401418	3.500555	3.386790	3.316693	3.261497	3.302801

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 SUPOEC	4 SATBRF	5 ORDNFO	6 MESLEN	7 QUALVY	8 AMTKYZ	9 SPKGRA	10 PRPCON
251	3.591213	3.233641	3.417058	3.576651	3.358294	3.396255	3.387991	3.307092	3.225638	3.300826
252	3.785418	3.412969	3.566481	3.761734	3.494053	3.587270	3.424581	3.370483	3.297163	3.382738
253	3.327689	3.123587	3.238880	3.406607	3.222249	3.154194	3.275037	3.242765	3.172322	3.141998
254	3.521895	3.302914	3.389263	3.554690	3.358308	3.345209	3.311627	3.306156	3.243847	3.223909
255	3.376824	3.121420	3.314870	3.503021	3.314885	3.240908	3.312827	3.298555	3.207987	3.221935
256	3.571030	3.300747	3.464252	3.688104	3.450644	3.431923	3.349417	3.359946	3.279512	3.303846

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	11 MINPRF	12 PININ	13 EZCCMP	14 USFNFC	15 RESPND	16 CLRPIC	17 UNNFO
1	3.279587	3.108362	3.244083	3.382377	3.357769	3.286585	3.039390
2	3.452599	3.281421	3.386716	3.582391	3.542471	3.471203	3.112330
3	3.406603	3.217571	3.310413	3.472572	3.456512	3.370569	3.097629
4	3.579615	3.391030	3.453045	3.672586	3.641215	3.555187	3.170565
5	3.027697	2.938639	3.140815	3.238679	3.134673	3.059490	2.898520
6	3.200709	3.111699	3.283452	3.438693	3.319376	3.244108	2.971460
7	3.154712	3.048248	3.207149	3.328875	3.233416	3.143475	2.956759
8	3.327724	3.221308	3.345781	3.529889	3.418119	3.328093	3.029658
9	3.253341	3.114316	3.224605	3.373452	3.308299	3.250920	2.979757
10	3.426353	3.287375	3.367237	3.573467	3.493002	3.435538	3.052696
11	3.380356	3.223925	3.290934	3.463648	3.407042	3.334905	3.037996
12	3.553368	3.396584	3.433567	3.663662	3.591745	3.519523	3.110935
13	3.001450	2.944554	3.121341	3.229755	3.085204	3.023826	2.838887
14	3.174462	3.117653	3.263973	3.429769	3.269906	3.208444	2.911826
15	3.128466	3.054203	3.187670	3.319550	3.183947	3.107811	2.857126
16	3.301478	3.227262	3.330303	3.519964	3.368649	3.292428	2.970065
17	3.293073	3.104511	3.195827	3.386550	3.336078	3.316034	3.052720
18	3.466085	3.277570	3.338459	3.586564	3.521380	3.500652	3.125659
19	3.420089	3.214120	3.262156	3.476746	3.435421	3.400019	3.110958
20	3.593101	3.387179	3.404789	3.676760	3.620123	3.584637	3.183858

21	3.041183	2.934789	3.052563	3.242853	3.113582	3.088940	2.911849
22	3.214195	3.107848	3.235195	3.442867	3.298285	3.273558	2.984789
23	3.168198	3.044398	3.158892	3.333048	3.212325	3.172924	2.970088
24	3.341211	3.217457	3.301525	3.533062	3.397028	3.357542	3.043028
25	3.266827	3.110466	3.176348	3.377626	3.287208	3.280370	2.993086
26	3.439839	3.283525	3.318981	3.577640	3.471910	3.464988	3.066026
27	3.393842	3.220075	3.242678	3.467821	3.385951	3.364354	3.051325
28	3.566854	3.393134	3.385311	3.667835	3.570654	3.548972	3.124265
29	3.014936	2.940743	3.073084	3.233928	3.064112	3.053275	2.852216
30	3.187949	3.113807	3.215717	3.433942	3.248815	3.237893	2.925156
31	3.141952	3.050352	3.139414	3.324123	3.162855	3.137260	2.910455
32	3.314964	3.223411	3.282047	3.524137	3.347558	3.321878	2.983394
33	3.242816	3.080804	3.214473	3.279370	3.287228	3.221329	3.026227
34	3.415828	3.253863	3.357105	3.479384	3.471931	3.405947	3.099166
35	3.369831	3.190413	3.280802	3.369565	3.385971	3.335314	3.084466
36	3.542843	3.363472	3.423435	3.569579	3.570674	3.489932	3.157405
37	2.990925	2.911082	3.111209	3.135672	3.064133	2.994235	2.885357
38	3.163938	3.084141	3.253841	3.335686	3.248835	3.178853	2.958296
39	3.117941	3.020691	3.177538	3.225867	3.162876	3.078220	2.943595
40	3.290953	3.193150	3.320171	3.425881	3.347579	3.262833	3.016535
41	3.216569	3.086758	3.194994	3.270445	3.237758	3.185665	2.966594
42	3.389581	3.259818	3.337627	3.470459	3.422461	3.370283	3.039533
43	3.343585	3.196367	3.261324	3.360640	3.336501	3.269649	3.024832
44	3.516597	3.369427	3.403957	3.560654	3.521204	3.454267	3.097772
45	2.964679	2.917036	3.091730	3.126747	3.014663	2.958571	2.825723
46	3.137691	3.090095	3.234363	3.326761	3.199366	3.143189	2.898663
47	3.091694	3.026645	3.158060	3.216942	3.112406	3.042555	2.883962
48	3.264706	3.199704	3.300693	3.416957	3.298109	3.227173	2.956902
49	3.256302	3.076953	3.166216	3.283543	3.266137	3.250779	3.039556
50	3.429314	3.250012	3.308849	3.483557	3.450840	3.435397	3.112496

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	11 MINPRE	12 MININ	13 EZCOMP	14 USFNFO	15 RESPND	16 CLRPIC	17 UNNFO
51	3.383317	3.186562	3.232546	3.373738	3.364880	3.334763	3.097795
52	3.556329	3.359621	3.375179	3.573752	3.549583	3.519381	3.170734
53	3.004411	2.907231	3.062952	3.139845	3.043041	3.023685	2.898686
54	3.177424	3.080290	3.205585	3.339859	3.227744	3.208303	2.971625
55	3.131427	3.016840	3.179282	3.230040	3.141785	3.107669	2.956925
56	3.304439	3.189899	3.271915	3.430054	3.326487	3.292287	3.029864
57	3.230055	3.082908	3.146738	3.274618	3.216667	3.215114	2.979923
58	3.403067	3.255967	3.289371	3.474632	3.401370	3.399732	3.052862
59	3.357071	3.192517	3.213067	3.364813	3.315410	3.299099	3.038162
60	3.530083	3.365576	3.355700	3.564827	3.500113	3.483717	3.111101
61	2.978165	2.913185	3.043474	3.130920	2.993572	2.988020	2.839053
62	3.151177	3.086245	3.186107	3.330935	3.178274	3.172639	2.911992
63	3.105180	3.022794	3.109804	3.221116	3.092315	3.072005	2.897291
64	3.278192	3.195854	3.252436	3.421130	3.277017	3.256623	2.970231
65	3.357797	3.171051	3.245292	3.422115	3.417017	3.370618	3.032492
66	3.530809	3.344110	3.387925	3.622129	3.601720	3.555236	3.105432
67	3.484812	3.280660	3.311622	3.512310	3.515760	3.454603	3.090721
68	3.657824	3.453719	3.454255	3.712324	3.700463	3.639221	3.163670
69	3.105906	3.001329	3.142028	3.278417	3.193922	3.143524	2.891622
70	3.278919	3.174388	3.284061	3.478431	3.378624	3.328142	2.964562
71	3.232922	3.110938	3.208358	3.368612	3.292665	3.227509	2.949861
72	3.405934	3.283997	3.350991	3.568626	3.477368	3.412127	3.022800

73	3.331550	3.177006	3.225814	3.413150	3.367547	3.334954	2.972859
74	3.504562	3.350065	3.368447	3.613204	3.552250	3.519572	3.045758
75	3.458566	3.286614	3.292144	3.503385	3.466291	3.418939	3.031058
76	3.631578	3.455614	3.434776	3.703400	3.650993	3.603557	3.104037
77	3.079660	3.007283	3.122550	3.269493	3.144452	3.107860	2.831985
78	3.252672	3.180342	3.265183	3.465507	3.329155	3.292478	2.904926
79	3.206675	3.116852	3.188880	3.359688	3.243155	3.191844	2.890227
80	3.379687	3.285951	3.331512	3.559702	3.427898	3.376462	2.963167
81	3.371283	3.167700	3.157036	3.426288	3.355526	3.400368	3.045822
82	3.544295	3.340259	3.339669	3.626302	3.580629	3.584686	3.118761
83	3.458258	3.276809	3.263366	3.516483	3.494669	3.484052	3.104060
84	3.671310	3.445868	3.405958	3.716497	3.679372	3.668670	3.177000
85	3.119392	2.957478	3.093772	3.282590	3.172831	3.172974	2.904951
86	3.292405	3.170537	3.236405	3.482605	3.357533	3.357592	2.977891
87	3.246408	3.107087	3.160102	3.372786	3.271574	3.256958	2.963190
88	3.419420	3.280146	3.302734	3.572800	3.456276	3.441576	3.036130
89	3.345036	3.172155	3.177558	3.417363	3.346456	3.364403	2.986188
90	3.518048	3.346214	3.320190	3.617378	3.531159	3.549021	3.059128
91	3.472052	3.282764	3.243887	3.507559	3.445199	3.448388	3.044427
92	3.645064	3.455823	3.386520	3.707573	3.629902	3.633006	3.117366
93	3.093146	3.003433	3.074294	3.273666	3.122361	3.137309	2.845318
94	3.266158	3.176492	3.216926	3.473680	3.308063	3.321927	2.918257
95	3.220161	3.113042	3.140623	3.363861	3.222104	3.221294	2.903557
96	3.393173	3.286101	3.283256	3.563875	3.406807	3.405912	2.976496
97	3.371025	3.143493	3.215682	3.319108	3.346477	3.305363	3.019325
98	3.494037	3.316552	3.358315	3.519122	3.521179	3.485581	3.092268
99	3.448041	3.253102	3.282012	3.409303	3.445220	3.389349	3.077568
100	3.621053	3.426161	3.424644	3.609317	3.629922	3.573966	3.150507

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	11 MINPRE	12 MININ	13 EZCOMP	14 USENFO	15 RESEND	16 CLRPIC	17 UNNFO
101	3.069135	2.973771	3.112418	3.175410	3.123381	3.078269	2.878459
102	3.242147	3.146830	3.255051	3.375424	3.308384	3.262887	2.951398
103	3.196150	3.083380	3.178748	3.265605	3.222124	3.162254	2.936697
104	3.369162	3.256439	3.321380	3.465619	3.406827	3.346872	3.009637
105	3.294779	3.149448	3.196204	3.310183	3.297007	3.269699	2.959695
106	3.467791	3.322507	3.338836	3.510197	3.481709	3.454317	3.032635
107	3.421794	3.259057	3.262533	3.400378	3.395750	3.353683	3.017934
108	3.594806	3.432116	3.405166	3.600392	3.580453	3.538301	3.090874
109	3.042888	2.979325	3.092940	3.166485	3.073911	3.042605	2.818825
110	3.215900	3.152785	3.235572	3.366499	3.258614	3.227222	2.891765
111	3.169904	3.089334	3.159269	3.256680	3.172655	3.126589	2.877064
112	3.342916	3.262394	3.301902	3.456654	3.357357	3.311207	2.950003
113	3.334511	3.139643	3.167426	3.323281	3.325385	3.334813	3.032658
114	3.507523	3.312702	3.310058	3.523295	3.510088	3.519431	3.105598
115	3.461527	3.249252	3.233755	3.413476	3.424129	3.418797	3.090897
116	3.634539	3.422311	3.376388	3.613490	3.608831	3.603415	3.163836
117	3.082621	2.969920	3.064162	3.179583	3.102290	3.107718	2.851788
118	3.255633	3.142979	3.206794	3.379597	3.286953	3.292336	2.964727
119	3.209636	3.079529	3.130491	3.269778	3.201033	3.191703	2.950027
120	3.382649	3.252588	3.273124	3.469792	3.385736	3.376321	3.022966
121	3.308265	3.145597	3.147947	3.314356	3.275916	3.299148	2.973025
122	3.481277	3.318656	3.290580	3.514370	3.460618	3.483766	3.045964
123	3.435280	3.255206	3.214277	3.404551	3.374659	3.383133	3.031263
124	3.608292	3.428765	3.356910	3.604565	3.559361	3.567751	3.104203

125	3.056374	2.975875	3.044683	3.170658	3.052820	3.072054	2.832154
126	3.229387	3.148934	3.187316	3.370672	3.237523	3.256672	2.905094
127	3.183390	3.085484	3.111012	3.268853	3.151563	3.156039	2.890393
128	3.356402	3.258543	3.253646	3.468868	3.336266	3.340657	2.963333
129	3.428750	3.223235	3.344350	3.508178	3.508520	3.402779	3.108710
130	3.601762	3.396254	3.486983	3.708192	3.693223	3.587397	3.181650
131	3.555765	3.332844	3.410680	3.598373	3.607264	3.486764	3.166945
132	3.728777	3.505903	3.553313	3.798387	3.791966	3.671381	3.239889
133	3.176860	3.053513	3.241086	3.364480	3.285425	3.175685	2.967840
134	3.349872	3.226572	3.383719	3.564494	3.470128	3.360303	3.040780
135	3.303875	3.163122	3.307416	3.454675	3.384168	3.259669	3.026079
136	3.476887	3.336181	3.450049	3.654689	3.568871	3.444287	3.099019
137	3.402503	3.229190	3.324872	3.499253	3.459051	3.367115	3.049077
138	3.575515	3.402249	3.467505	3.699267	3.643753	3.551732	3.122017
139	3.529519	3.338799	3.391201	3.589448	3.557754	3.451099	3.107316
140	3.702531	3.511858	3.533834	3.789462	3.742496	3.635717	3.180255
141	3.150613	3.059468	3.221608	3.355555	3.235955	3.140020	2.908207
142	3.323625	3.232527	3.364241	3.555569	3.420658	3.324638	2.981146
143	3.277628	3.165077	3.287937	3.445750	3.334698	3.224005	2.966446
144	3.450641	3.342136	3.430570	3.645765	3.519401	3.408623	3.039385
145	3.442236	3.219385	3.296094	3.512351	3.487429	3.432228	3.122040
146	3.615248	3.392444	3.438727	3.712365	3.672132	3.616846	3.194979
147	3.569251	3.328994	3.362424	3.602546	3.586172	3.516213	3.180279
148	3.742264	3.502053	3.505056	3.802560	3.770875	3.700831	3.253218
149	3.190346	3.049662	3.192830	3.368653	3.264334	3.205134	2.981170
150	3.363358	3.222722	3.335463	3.568667	3.449036	3.389752	3.054109

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	11 MINPRE	12 MINTN	13 EZCOMP	14 USEFNO	15 RESPND	16 CLRPIC	17 UNNFO
151	3.317361	3.159271	3.259160	3.458848	3.363077	3.289119	3.039408
152	3.490373	3.332331	3.401792	3.658863	3.547780	3.473737	3.112348
153	3.415989	3.225339	3.276616	3.503426	3.437959	3.396564	3.062406
154	3.589002	3.398358	3.419248	3.703440	3.622662	3.581182	3.135346
155	3.543005	3.334948	3.342945	3.593621	3.536702	3.480549	3.120645
156	3.716017	3.508007	3.485578	3.793636	3.721405	3.665166	3.193585
157	3.164099	3.055617	3.173352	3.359729	3.214864	3.169470	2.921536
158	3.337111	3.228676	3.315984	3.559743	3.399567	3.354088	2.994476
159	3.291114	3.165226	3.239681	3.449924	3.313607	3.253454	2.979775
160	3.464127	3.338285	3.382314	3.649938	3.498310	3.438072	3.052714
161	3.391578	3.155678	3.314740	3.405170	3.437980	3.337524	3.095547
162	3.564991	3.328737	3.457373	3.605185	3.622682	3.522142	3.168486
163	3.518994	3.305287	3.381069	3.495366	3.536723	3.421508	3.153786
164	3.692006	3.478346	3.523702	3.695380	3.721426	3.606126	3.226725
165	3.140088	3.025955	3.211476	3.261473	3.214884	3.110430	2.954677
166	3.313100	3.199014	3.354109	3.461487	3.399587	3.295047	3.027616
167	3.267103	3.135564	3.277805	3.351668	3.313627	3.194414	3.012916
168	3.440116	3.308623	3.420438	3.551682	3.498330	3.379032	3.085855
169	3.365732	3.201632	3.295262	3.396246	3.388510	3.301859	3.035914
170	3.538744	3.374651	3.437894	3.596260	3.573213	3.486477	3.108853
171	3.492747	3.311241	3.361591	3.486441	3.487253	3.385844	3.094152
172	3.665759	3.484300	3.504224	3.686455	3.671956	3.570462	3.167092
173	3.113841	3.021910	3.191598	3.252548	3.165414	3.074765	2.895043
174	3.286854	3.204969	3.334630	3.452562	3.350117	3.259383	2.967983
175	3.240857	3.141519	3.258327	3.342743	3.264158	3.158750	2.953282
176	3.413869	3.314578	3.400960	3.542757	3.448860	3.343368	3.026222

177	3.405464	3.191827	3.266484	3.409344	3.416888	3.366573	2.108876
178	3.578477	3.364886	3.409116	3.609358	3.601591	3.551591	3.181816
179	3.532480	3.301436	3.332813	3.455839	3.515632	3.450958	3.167119
180	3.705492	3.474455	3.475446	3.659553	3.700334	3.635576	3.240055
181	3.153574	3.022105	3.163220	3.285846	3.193793	3.139879	2.968006
182	3.326586	3.195164	3.305852	3.465660	3.378496	3.324497	3.040946
183	3.280589	3.131714	3.229549	3.355841	3.292536	3.223864	3.026245
184	3.453602	3.304773	3.372182	3.555855	3.477239	3.408482	3.099184
185	3.379218	3.157781	3.247005	3.400419	3.367419	3.331309	3.049243
186	3.552230	3.376840	3.385638	3.600433	3.552121	3.515927	3.122182
187	3.506233	3.307390	3.313335	3.450614	3.466162	3.415253	3.107482
188	3.679245	3.480449	3.455968	3.690628	3.650864	3.599911	3.180421
189	3.127327	3.028059	3.143741	3.256721	3.144323	3.104215	2.908373
190	3.300340	3.201118	3.286374	3.456735	3.325026	3.288832	2.981312
191	3.254343	3.137668	3.210071	3.346916	3.243066	3.188199	2.966611
192	3.427355	3.310127	3.352704	3.546530	3.427769	3.372817	3.039551
193	3.506959	3.285925	3.345560	3.547916	3.567769	3.486813	3.101812
194	3.679972	3.456564	3.485152	3.747530	3.752472	3.671431	3.174752
195	3.633975	3.395534	3.411889	3.638111	3.666512	3.570757	3.160051
196	3.806987	3.565553	3.554522	3.838125	3.851215	3.755415	3.232991
197	3.255069	3.116202	3.242256	3.404218	3.344673	3.259719	2.960942
198	3.428081	3.289261	3.384928	3.604232	3.529376	3.444337	3.033882
199	3.382084	3.225811	3.308625	3.494413	3.443417	3.343703	3.019181
200	3.555097	3.358870	3.451258	3.694427	3.628119	3.528321	3.092120

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	11 MINPRF	12 MININ	13 EZCOMP	14 USFNFO	15 RESFND	16 CLRPTC	17 UNNFO
201	3.480713	3.291879	3.326081	3.538991	3.518299	3.451148	3.042175
202	3.653725	3.464538	3.468714	3.739005	3.703002	3.635766	3.115118
203	3.607728	3.401488	3.392411	3.625186	3.617042	3.535133	3.100418
204	3.780740	3.574547	3.535044	3.829200	3.801745	3.719751	3.173357
205	3.228822	3.122157	3.222817	3.395293	3.295204	3.224054	2.901309
206	3.401835	3.295216	3.365450	3.595307	3.479906	3.408672	2.974248
207	3.355838	3.231766	3.289147	3.485488	3.393947	3.308039	2.959548
208	3.528851	3.404825	3.431780	3.685502	3.578649	3.492657	3.032487
209	3.520445	3.282074	3.297303	3.552089	3.546678	3.516262	3.115142
210	3.693458	3.455133	3.435936	3.752103	3.731380	3.700880	3.188081
211	3.647461	3.391683	3.363633	3.642284	3.645421	3.600247	3.173380
212	3.820473	3.564142	3.506766	3.842298	3.830123	3.784865	3.246320
213	3.268555	3.112352	3.154039	3.408391	3.323582	3.289168	2.974271
214	3.441567	3.285411	3.336672	3.608405	3.508285	3.473786	3.047211
215	3.395571	3.221561	3.260369	3.498586	3.422325	3.373153	3.032510
216	3.568583	3.395020	3.403002	3.698600	3.607328	3.557771	3.105450
217	3.494195	3.288028	3.277825	3.543164	3.497208	3.480598	3.055508
218	3.667211	3.461088	3.420458	3.743178	3.631910	3.665216	3.128448
219	3.621214	3.397637	3.344155	3.633259	3.595351	3.564582	3.113747
220	3.794226	3.570697	3.486787	3.833373	3.780654	3.749200	3.186686
221	3.242309	3.118306	3.174561	3.395466	3.274112	3.253504	2.914638
222	3.415321	3.291365	3.317194	3.595480	3.458815	3.438122	2.987577
223	3.369324	3.227515	3.240891	3.485662	3.372856	3.337488	2.972877
224	3.542336	3.400574	3.383523	3.685676	3.557758	3.522106	3.045816
225	3.470188	3.258367	3.315949	3.444508	3.497228	3.421558	3.089649
226	3.643200	3.431426	3.458582	3.644922	3.681331	3.606176	3.161588
227	3.597203	3.367576	3.382275	3.535103	3.595571	3.505542	3.146888
228	3.770215	3.541035	3.524912	3.735118	3.780674	3.690160	3.219827

229	3.218298	3.088645	3.212685	3.301211	3.274133	3.194463	2.947779
230	3.391310	3.261704	3.355318	3.501225	3.458835	3.379081	3.020718
231	3.345313	3.158254	3.279015	3.391406	3.372876	3.278448	3.006017
232	3.518325	3.371313	3.421648	3.591420	3.557579	3.463066	3.078957
233	3.443941	3.264321	3.296471	3.435984	3.447758	3.385893	3.029015
234	3.616953	3.437380	3.439104	3.635998	3.632461	3.570511	3.101955
235	3.570957	3.373530	3.362800	3.526179	3.546502	3.469878	3.087254
236	3.743969	3.546989	3.505433	3.726193	3.731204	3.654456	3.160194
237	3.192051	3.054599	3.193207	3.292286	3.224663	3.158799	2.888145
238	3.365063	3.267658	3.335840	3.492300	3.409366	3.343417	2.961085
239	3.319066	3.204208	3.259536	3.382481	3.323406	3.242783	2.946384
240	3.492079	3.377267	3.402169	3.582495	3.508109	3.427401	3.019323
241	3.483674	3.254516	3.267693	3.449082	3.476137	3.451007	3.101578
242	3.656686	3.427575	3.410326	3.649096	3.660840	3.635625	3.174918
243	3.610689	3.364125	3.334023	3.539277	3.574880	3.534992	3.160217
244	3.783702	3.537184	3.476655	3.739291	3.759583	3.719610	3.233156
245	3.231784	3.084754	3.164429	3.305384	3.253042	3.223913	2.961108
246	3.404796	3.257853	3.307062	3.505398	3.437744	3.408531	3.034047
247	3.358799	3.194403	3.230759	3.395579	3.351785	3.307897	3.019347
248	3.531811	3.367462	3.373391	3.595593	3.536487	3.492515	3.092286
249	3.457427	3.260471	3.248215	3.440157	3.426667	3.415343	3.042345
250	3.630440	3.433530	3.390847	3.640171	3.611370	3.599961	3.115284

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	11 MINPRE	12 MININ	13 EZCOMP	14 USFNFO	15 RESPND	16 CLRPIC	17 UNNFO
251	3.584443	3.370080	3.314544	3.530352	3.525410	3.499327	3.100584
252	3.757455	3.543139	3.457177	3.730366	3.710113	3.683945	3.173523
253	3.205537	3.090748	3.144551	3.296459	3.203572	3.188248	2.901475
254	3.378549	3.263807	3.287583	3.496473	3.388274	3.372966	2.974414
255	3.332552	3.200357	3.211280	3.386654	3.302315	3.272233	2.959713
256	3.505565	3.373416	3.353913	3.586668	3.437018	3.456851	3.032653

MEANS ESTIMATED BY FITTING MODEL OF RANK 9

RAW RESIDUALS - ROWS ARE FULL CELLS - COLUMNS ARE VARIABLES

	1 AMTNFO	2 ACCNFO	3 SUPDFC	4 SATBRF	5 ORDNFO	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PMPCON
1	-0.091169	0.240354	0.317315	0.337677	0.174798	0.417387	0.487892	0.487366	0.266587	-0.079635
2	0.526362	-3.257479	-3.424342	-3.422404	-3.251171	-3.169327	-3.049899	-3.066424	-3.102412	-3.326238
3	-0.667844	-0.436806	-0.073724	0.392914	0.613070	0.139658	0.913511	0.870184	-0.173937	-0.408149
4	0.586610	0.748616	0.199105	0.718433	0.369534	0.909144	0.965547	0.474861	0.394072	0.325976
5	-1.656731	-1.428544	-1.525768	-1.560064	-1.358861	-1.368585	-1.108833	-1.142320	-1.213119	-1.335872
6	-0.412987	-0.441244	0.053624	-0.534409	-0.362488	-0.301524	-0.775299	-0.827654	-0.237633	-0.593445
7	0.537883	0.760924	-0.421366	0.572177	0.744876	0.811761	0.986911	0.918556	0.926701	0.726618
8	0.343677	0.581596	0.429251	0.387094	-0.390883	0.620746	-0.049679	-0.144835	-0.144824	-0.355293
9	-0.901869	-1.232981	0.202080	-0.286587	-0.134419	-1.609767	-0.997643	-1.040158	-1.576815	-1.121168
10	0.548996	-0.230814	0.627091	0.619599	-0.227055	-1.196482	-1.035433	-1.093949	-0.112481	-1.201105
11	-0.645210	-0.410141	-0.522792	-0.565483	-0.362814	-0.387497	-0.072023	-0.157340	-0.184005	-0.283016
12	0.380403	0.480547	0.561196	0.772064	0.778707	0.664524	-0.161683	0.375583	0.432893	0.597166
13	0.486197	0.601220	0.278480	0.253648	0.409615	0.440176	0.901727	0.249525	0.861368	0.715255

14	0.431267	0.582715	0.486207	0.278650	-0.013929	0.677810	-0.499473	-0.674208	-0.302773	-0.082771
15	-0.108484	-0.011190	0.609653	-0.180513	0.106776	0.556281	0.715973	0.167078	-0.106289	0.069443
16	-0.502690	-0.390518	-0.339730	-0.365596	-0.228583	-0.234734	-0.120617	-0.096314	-0.177814	-0.212468
17	0.642380	0.790577	0.734663	0.726073	0.814140	0.869567	0.878183	0.912288	0.858045	0.789506
18	0.448174	-0.388350	0.585281	-0.455010	0.678381	0.678552	-0.158407	-0.150104	-0.213479	-0.292405
19	0.905904	0.901032	0.911881	0.693117	0.950185	1.111628	-0.008864	-0.022385	0.911362	-0.051666
20	0.191923	0.215616	0.180839	0.099578	0.208088	-0.221054	0.225127	0.131230	0.128673	0.183355
21	-0.302283	-0.180378	0.014789	-0.218438	-0.061005	-0.245402	-0.861463	-0.098828	-0.509519	-0.031889
22	-0.073879	0.467784	0.022516	0.339898	0.448785	0.525565	0.270670	0.244106	0.259674	-0.229915
23	-0.051418	0.050361	0.039800	0.131005	0.289217	0.382170	0.257890	0.061667	0.426244	0.331031
24	-0.387873	-0.101878	-0.823735	-0.549569	-0.733540	-0.698994	-0.592672	-0.229760	-0.440812	-0.168610
25	0.308830	0.227885	0.263246	0.628984	0.167064	0.146355	-0.083807	-0.311333	-0.148701	-0.359612
26	0.176362	-0.369548	-0.411744	-0.464429	-0.325571	0.159641	0.211736	0.001544	-0.017699	0.260451
27	-1.082576	-1.580566	-1.585143	-1.112303	-1.053767	-0.907284	-1.472054	-1.537405	-1.559525	0.501190
28	0.035311	-0.012894	0.074604	0.058212	0.058548	0.090665	0.059167	0.030075	0.005420	-0.029249
29	0.079212	0.014347	-0.007235	-0.036826	0.086437	-0.028543	0.036693	0.090837	0.028673	0.077334
30	-0.014952	-0.021862	0.064766	0.012578	-0.045081	-0.244816	0.049847	-0.063039	-0.016010	-0.008411
31	-0.057642	-0.050592	-0.078029	-0.051292	-0.134727	0.070098	-0.113225	-0.072411	-0.034834	-0.104815
32	0.733420	-0.123928	0.226833	0.634168	0.318236	0.966941	-0.079623	0.410380	-0.083906	0.317084
33	0.539214	-0.303256	0.577450	0.449085	-0.317523	-1.224074	0.883786	-0.153012	-0.155431	0.735173
34	0.076080	0.137566	0.120215	0.087635	0.014278	0.039124	0.058641	-0.006571	0.086904	0.070632
35	-0.228163	-0.073882	-0.117347	0.069544	0.026112	-0.131253	-0.034234	0.003434	0.018506	0.061891
36	-0.064445	0.137516	0.143526	-0.121817	0.119351	0.080274	0.148715	0.332548	0.323596	0.457805
37	0.036804	-0.190762	0.127260	0.079463	0.003073	0.025623	-0.180083	-0.194129	-0.140786	-0.101379
38	0.501192	0.707174	0.550917	0.403053	-0.382089	-1.319031	0.823652	-0.219307	0.769722	0.727513
39	-0.142917	-0.105503	-0.086706	-0.138759	-0.004635	-0.013439	0.086105	-0.043748	0.039802	0.035947
40	0.077726	0.016718	0.038542	0.042450	0.083392	0.058565	0.060950	0.080052	0.054308	0.191896
41	-0.118583	-0.015580	-0.047410	-0.138295	0.078239	0.105969	0.044233	0.231033	0.091891	0.111112
42	0.043309	0.019726	-0.060207	-0.040451	-0.189227	0.002759	-0.289918	-0.207968	-0.228414	-0.175677
43	0.052304	0.152217	-0.047368	0.113179	0.118093	0.146142	-0.012662	0.021254	-0.047795	-0.072845
44	0.047460	-0.188812	-0.113346	-0.042542	-0.176815	-0.246575	-0.316911	-0.131073	-0.223150	-0.238586
45	-0.221755	-0.207318	-0.113239	-0.348016	-0.150835	-0.587988	-0.320969	-0.324329	-0.147291	-0.502325
46	-0.035009	0.080022	0.018331	-0.009289	-0.062785	-0.159956	-0.048035	-0.111530	0.081185	0.001428
47	-0.157313	0.116543	-0.139848	-0.338408	-0.062930	-0.172518	-0.204361	-0.139191	-0.195667	-0.218340
48	-0.040857	0.271775	-0.237760	0.005521	-0.147219	0.138305	0.229637	0.181609	0.179499	0.229160
49	0.211166	0.169847	-0.158019	0.113632	-0.189657	0.135654	0.030576	0.292815	0.316963	-0.116459
50	0.313930	0.293550	0.244113	0.049762	0.117008	0.314336	0.187925	0.241545	0.324226	0.219812

RAW RESIDUALS - ROWS ARE FULL CELLS - COLUMNS ARE VARIABLES

	1 AMTNFO	2 ACCNFC	3 SUPDFC	4 SATERF	5 ORDNFO	6 MESLEN	7 QUALVY	8 AMTAYZ	9 SPKGRA	10 PMPCON
51	0.338326	-0.083735	-0.162619	-0.264778	-1.144521	0.014078	0.370802	-0.097404	0.415733	-0.139449
52	0.594984	0.739105	0.613009	0.456725	0.627084	-0.263651	-0.203578	-0.214585	0.808543	0.698703
53	0.089596	-0.187654	-0.125482	0.027156	0.021957	0.259580	0.227840	0.152282	0.177083	-0.005700
54	0.133152	0.017594	-0.058081	-0.014530	0.012072	0.044090	0.198243	-0.337683	-0.058778	-0.227975
55	-0.214085	0.414473	0.108619	0.015600	-0.052497	-0.036225	0.135504	-0.225764	0.223235	0.174000
56	-0.358291	0.135146	-0.190763	-0.069483	-0.388256	-0.177240	-0.301086	-0.237627	-0.248289	0.192089
57	-0.010375	-0.031721	0.154795	0.093672	0.037284	0.048154	0.061615	0.043706	0.031363	0.042849
58	0.035002	0.174368	-0.036255	0.127340	-0.140142	-0.132444	-0.016641	0.094858	-0.144229	-0.059895
59	0.131777	-0.357205	0.076775	0.380940	0.260936	0.298561	-0.023523	0.095977	-0.108469	0.209125
60	-0.081567	-0.091556	-0.038876	-0.122324	-0.025541	-0.122119	0.021226	0.023016	0.056848	-0.169437
61	0.349846	-0.065332	0.340356	0.229802	0.851526	0.495167	-0.092388	-0.112423	-0.055153	0.413407
62	-0.344360	-0.244660	-0.309026	0.544720	0.715767	0.804152	0.871022	0.824186	-0.126678	-0.168504
63	-0.353429	-0.135558	-0.180082	-0.396405	-0.230481	-0.168422	-0.156562	-0.102122	0.021348	-0.093207
64	-0.103190	-0.070841	0.248213	0.185179	-0.299573	-0.581660	-0.059819	-0.143301	-0.461298	-0.230674
65	0.297436	0.232876	0.111595	0.010181	0.243550	-0.155137	0.372314	0.310745	-0.047651	-0.173144

66	0.003230	-0.146452	-0.087788	-0.224902	-0.042209	-0.146152	-0.164276	-0.002646	-0.119176	-0.155055
67	0.386849	-0.326163	0.521955	-0.515822	0.739620	-0.223731	-0.172413	-0.130471	0.855266	-0.373983
68	0.337714	-0.323596	-0.553034	-0.609236	-0.353016	-0.310445	0.789796	0.815739	-0.180399	0.546080
69	0.143508	-0.003324	-0.202417	-0.294318	0.011225	-0.001460	-0.246794	-0.747652	0.248076	-0.035832
70	0.397962	0.182099	-0.429588	0.031600	0.267689	-0.231974	-0.194758	-0.142976	-0.183915	0.698293
71	0.348827	0.684266	-0.004578	0.438187	0.675053	0.681312	0.767452	0.802234	0.780419	0.618357
72	-0.101630	0.442239	0.274931	-0.021241	-0.764332	0.257358	0.364397	0.104510	0.134380	-0.071127
73	-0.045836	0.262912	0.375548	0.293676	0.099909	0.316343	0.327807	-0.208882	-0.437145	-0.653039
74	-0.244972	-0.284521	-0.299442	-0.159738	-0.292727	-0.120371	-0.009984	-0.062672	0.177189	-0.082975
75	0.409483	0.700502	0.240054	-0.140486	-0.236263	0.082448	0.175386	0.175338	-0.488135	-0.582184
76	0.215277	0.521174	-0.075995	-0.158902	0.127978	0.058100	0.305462	-0.221386	0.273673	-0.830762
77	0.166141	0.523342	0.349015	0.247685	0.535342	0.471385	-0.232328	-0.275177	-0.261992	0.589301
78	-0.008246	-0.202637	-0.200830	-0.248101	-0.223137	-0.176593	-0.138654	-0.221587	0.188239	-0.497183
79	-0.102451	-0.265298	0.283121	-0.099851	0.141104	-0.067608	-0.158578	-0.001645	-0.016619	-0.112428
80	-0.446270	-0.283803	-0.220264	-0.285560	0.017560	-0.707752	-0.593111	-0.414266	-0.514093	-0.188231
81	-0.418253	-0.046464	-0.341869	-0.193765	-0.201532	-0.620989	0.036965	0.077898	-0.168951	-0.159031
82	-0.293857	0.159565	0.068065	-0.007805	0.153605	-0.021247	-0.146824	-0.127717	0.205890	0.081708
83	0.511937	-0.353076	0.585349	0.473779	0.684513	-1.212262	-0.183414	-0.191108	-0.198968	-0.333536
84	-1.342993	-0.171561	0.659742	0.565448	-0.272364	-1.107961	-0.184615	-0.181507	-0.163109	0.668438
85	-0.330466	-0.444374	-0.152373	-0.200679	-0.528402	-0.018170	-0.244332	-0.430759	-0.434276	-0.091573
86	0.308662	-0.790368	-1.135089	-0.885762	-0.957454	-0.709185	-0.947589	-0.880817	-0.922467	-0.673484
87	0.453732	0.057793	-0.060696	0.539240	0.378962	0.395116	0.717878	0.462118	0.113392	0.328491
88	0.259526	0.545132	0.456588	0.354158	0.576537	0.537434	0.431288	-0.017940	0.208534	0.079913
89	0.217256	0.334514	0.283188	0.206284	0.348341	0.470510	0.830832	0.859778	0.333375	0.820652
90	-0.476950	0.155187	0.133806	0.521202	0.712582	0.779495	0.294241	0.296387	0.261850	0.738741
91	0.066655	-0.014046	0.015761	0.072771	-0.086245	-0.153251	-0.142924	-0.139189	-0.073727	0.018115
92	-0.024264	-0.023818	-0.013904	-0.002706	0.021766	0.075019	0.073104	0.039745	0.056084	0.012223
93	-0.175490	-0.006141	-0.143214	0.004917	-0.171578	-0.059997	-0.000746	0.163307	0.033539	0.012774
94	0.075151	0.033533	0.074150	0.094754	0.098863	-0.027582	0.066529	0.044762	0.059437	0.017014
95	0.328774	0.177988	0.071041	0.208998	0.038541	0.348730	0.001097	0.190597	0.235003	0.023454
96	0.111692	0.135915	-0.176381	-0.002228	-0.437087	-0.289997	0.329866	0.087990	-0.052208	-0.163033
97	-0.531472	-0.953178	-0.137282	-0.239571	-0.476317	0.073127	-0.147805	0.003473	-0.533996	-0.278705
98	-0.525678	-0.332506	-0.286665	-0.425054	-0.112076	0.082112	-0.284395	-0.355918	-0.205521	-0.260617
99	0.024192	-0.024011	-0.139594	-0.215902	-0.042158	-0.125317	-0.109483	0.030300	-0.096339	-0.048520
100	0.075738	0.028034	0.178997	0.042152	0.154109	0.160793	-0.021890	-0.006947	0.106646	0.134928

RAW RESIDUALS - ROWS ARE FILL CELLS - COLUMNS ARE VARIABLES

	1 AMTNFO	2 ACCNFO	3 SUPCFC	4 SATBRF	5 ORDNFO	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PMPCON
101	-0.005336	-0.021843	-0.056936	0.122057	0.178931	0.121302	0.166452	0.192196	0.162113	-0.050026
102	0.067343	0.063535	0.089193	0.089479	-0.020009	0.185189	0.236616	0.198522	0.089499	0.225361
103	0.036468	0.083686	0.247702	0.008557	0.075157	0.105444	0.021488	-0.001355	0.016334	-0.164953
104	-0.388507	-0.249487	0.021357	-0.253448	0.170167	-0.085571	-0.015102	-0.141710	0.098656	-0.131480
105	-0.120359	0.055084	-0.488826	-0.392549	-0.048248	-0.935116	-0.370145	-0.209031	-0.373177	0.193571
106	0.199721	0.318614	-0.081066	0.208083	0.258850	0.173869	0.293261	0.156149	0.041012	0.211660
107	-2.169616	-1.302667	-2.004089	-2.126294	-1.327017	-1.829523	-0.315092	-0.217994	-0.179544	0.110510
108	0.136178	0.518005	0.346529	0.188623	0.537224	0.479462	0.648318	0.718614	0.748932	0.528599
109	0.031249	-0.050500	-0.579078	0.030292	-0.315553	-0.916237	-1.102882	-0.271784	-1.215209	0.030574
110	-0.024068	0.186829	0.160428	-0.015902	-0.110968	-0.385030	-0.056139	0.331491	-0.064512	0.115329
111	-0.022139	-0.021677	-0.637450	-0.397054	-0.298548	-0.155948	0.117109	0.133137	0.235820	0.137333
112	0.147291	0.276268	0.394985	0.236045	0.315293	0.221219	0.125974	0.206110	0.209750	0.130876
113	0.292362	0.207763	0.219378	0.327714	0.108416	0.325520	0.374774	0.215711	0.245609	0.352850
114	0.098156	-0.221565	0.069996	0.142631	-0.027343	0.134505	-0.661816	-0.097680	0.174084	-0.229061
115	0.056190	0.287164	-0.001113	0.154001	0.169030	0.222994	0.221718	0.195558	0.135284	0.377652
116	-0.052301	0.086408	-0.050496	-0.066756	0.033271	-0.039450	0.135128	0.253595	0.178045	-0.168545
117	0.292769	0.467903	0.423897	0.024872	0.076394	-0.435149	-0.816072	-0.786804	-0.686096	-0.416570

118	-0.187151	-0.032854	0.131657	-0.053067	-0.130753	0.230979	-0.209805	-0.350195	-0.257621	-0.212767
119	-0.443707	-0.172043	-0.398885	-0.558084	-0.287561	-0.193088	-0.203118	-0.222477	-0.132779	-0.257742
120	-0.071982	0.098998	-0.077656	-0.084291	-0.052901	0.268322	0.324374	0.375482	0.310388	0.235643
121	-0.041188	-0.055330	0.097961	0.130626	0.161340	0.252307	0.062784	0.291090	0.038863	-0.146268
122	0.303882	0.726165	0.472354	0.322295	0.354463	-0.193392	-0.088416	-0.295308	-0.475277	0.155707
123	-0.056990	-0.286496	0.072971	-0.196121	-0.197962	-0.217740	0.041660	-0.112700	-0.046802	-0.259538
124	-0.270593	-0.262474	0.312342	-0.348770	-0.289775	-0.635327	-0.599960	-0.637542	-0.474022	-0.581317
125	-0.258917	-0.441801	-0.542923	-0.496038	-0.354105	-0.473401	-0.329828	-0.289169	-0.537143	-0.070791
126	0.052821	-0.593640	0.198137	0.214675	-0.049077	-0.035767	0.097544	0.220433	-0.382236	0.074041
127	-0.074719	0.253699	0.048754	-0.003737	0.015164	-0.026782	-0.105713	-0.076252	-0.220428	-0.174537
128	0.446402	-1.254211	0.154916	0.522182	0.238294	0.209371	-0.387010	-0.238282	0.280914	-0.273746
129	0.252196	-0.100206	-1.161133	0.337099	-0.064132	-0.148310	-0.423600	0.031660	-0.290611	-0.022324
130	0.197267	-0.652044	0.175926	0.228768	0.445658	0.422657	0.175199	0.107928	0.145249	0.246318
131	0.060204	-0.145657	-0.140885	0.243685	0.081328	0.145928	-0.175676	-0.069749	-0.326276	-0.292737
132	0.036553	0.089267	-0.031590	0.161648	0.035606	0.032036	-0.071446	-0.112592	-0.022586	-0.011115
133	-0.076466	-0.051306	0.087959	0.074955	0.035630	0.158851	0.123926	0.044649	0.103266	0.183062
134	0.397674	0.296557	0.072907	0.145157	0.229021	0.304296	0.403584	0.243875	0.198159	0.242282
135	-0.002011	0.071919	0.001501	-0.055732	0.039521	0.037412	-0.004976	-0.097704	0.043389	-0.002960
136	0.161198	-0.631850	-0.288336	-0.457030	-0.253318	-0.645951	0.247307	0.269740	0.366860	0.285725
137	0.466992	0.688823	0.562281	0.357887	0.613923	0.663034	0.710717	0.706349	0.795335	0.703814
138	0.247396	-0.025287	0.078944	0.358868	0.102763	0.322039	0.123484	0.167751	0.125817	0.147532
139	-0.054465	0.115773	0.190327	-0.031957	0.007673	0.135808	-0.068609	-0.043966	0.102139	-0.211892
140	0.033787	-0.108641	0.020402	0.048349	0.204206	-0.021255	0.112005	0.152908	0.149362	0.199174
141	-0.035418	0.003698	-0.038703	0.016044	0.039280	0.134953	0.103197	0.018406	0.119504	0.117262
142	0.338978	0.205746	0.093453	0.257059	0.111084	-0.487528	-0.608370	-0.242765	-0.505655	-0.141998

RAW RESIDUALS - ROWS ARE FULL CELLS - COLUMNS ARE VARIABLES

	11 MINPRE	12 MININ	13 EZCOMP	14 USENFO	15 RESEND	16 CLRPIC	17 UNNFO
1	0.553746	0.556305	0.422584	0.117623	0.308898	0.380082	0.127276
2	-3.406603	-3.217571	-3.310413	-3.472572	-3.456312	-3.370569	-3.097629
3	-0.579615	-0.391030	0.046955	-0.172586	0.358765	0.444813	0.329431
4	0.746659	0.885684	0.275395	0.626548	0.691701	0.249080	-0.979757
5	-1.553368	-1.396984	-1.433567	-1.663662	-1.591745	-1.519523	-0.110935
6	-0.693073	-0.304511	-0.595827	-0.586550	-0.736678	-0.516034	-0.252720
7	-0.420089	-0.214120	0.737844	0.523254	0.564579	0.599981	0.889042
8	0.406899	0.612821	-0.404789	0.322240	0.375877	0.415363	0.816102
9	-1.266827	-0.110466	-1.176348	0.122374	-0.287208	-0.280370	0.506914
10	0.606158	-0.220075	-1.242678	0.532179	0.614049	0.635646	-0.051325
11	-0.566854	-0.393134	-0.385311	-0.667835	-0.570654	-0.548972	-0.124265
12	0.557184	0.019196	0.685527	0.520630	0.512772	0.578671	0.073773
13	0.250839	0.412804	0.642895	0.520616	0.528069	0.260719	0.900834
14	-0.169831	0.205587	-0.080802	0.230435	0.614029	0.294686	0.115534
15	0.183431	0.113242	0.405006	0.525555	0.362242	0.414335	-0.566594
16	-0.389581	-0.259818	-0.337627	-0.473459	-0.422461	-0.370283	-0.039533
17	0.656415	0.803633	0.738676	0.635360	0.663499	0.730351	0.975168
18	0.483403	0.630573	0.596043	0.439346	0.478756	0.545733	-0.397772
19	0.035321	0.082964	0.908270	0.873253	0.985337	1.041429	0.174277
20	0.077032	0.173047	0.333784	0.045790	0.317196	0.165888	0.043777
21	-0.229314	-0.850012	-0.308845	-0.283557	-1.050840	-1.035397	-0.512496
22	0.616683	0.146771	0.100787	0.292928	0.301787	0.331903	0.235538
23	0.015099	0.140379	0.124821	0.069105	0.164703	0.194904	-0.027877
24	-0.048237	0.098510	-0.055829	-0.092800	0.146969	-0.033296	0.292804
25	-0.003067	0.144033	0.310629	0.525368	0.598630	0.200268	0.147138
26	-0.363416	-0.198509	-0.189034	-0.398161	-0.333446	-0.317050	-0.111101
27	0.521835	0.586815	-1.543474	-1.133920	-2.993572	0.511980	-0.839053

28	0.023599	-0.003609	0.010522	0.047652	0.057401	0.029382	0.065182
29	0.013051	0.068171	0.041899	0.053309	-0.040316	-0.011377	0.078779
30	0.030339	-0.129145	0.052014	0.063447	0.059997	0.030245	0.000178
31	0.008842	0.039035	-0.019472	-0.016672	-0.019304	-0.030525	-0.105699
32	-1.105906	-1.031329	-0.142028	0.221583	0.306078	0.856476	0.608378
33	0.721081	0.825612	-0.284661	0.521569	0.621376	0.671858	-0.964562
34	0.066824	0.009986	-0.014432	0.082745	0.022696	0.047160	-0.046030
35	-0.094306	-0.093654	0.016169	-0.305512	-0.141994	-0.083674	-0.045798
36	0.177798	0.031567	0.344220	0.178433	0.170073	0.171971	0.196175
37	0.046994	0.076041	-0.113348	0.118029	0.099007	0.182158	-0.068323
38	0.620313	0.710049	0.668488	0.440298	0.572102	0.623538	1.036833
39	-0.146793	-0.044751	0.058066	-0.069145	-0.089804	-0.012313	-0.076434
40	0.076395	0.064913	0.091366	0.003008	0.331440	-0.007100	0.010549
41	-0.298298	0.123191	0.136634	-0.316483	-0.094669	-0.284052	-0.104060
42	0.060397	0.037936	-0.113315	0.112771	0.076726	-0.010134	-0.006268
43	-0.110994	-0.109325	0.035208	-0.058215	0.015246	0.082405	-0.092571
44	-0.118048	-0.226214	-0.100190	-0.097378	-0.031159	-0.189021	-0.159128
45	0.242234	0.431522	-0.672459	-0.221844	-0.302342	-0.305531	-0.330141
46	0.054936	0.110844	-0.019853	-0.007573	0.003431	-0.033006	0.115967
47	-0.258525	-0.268493	-0.246932	-0.194108	-0.127727	-0.242863	-0.113079
48	-0.199920	-0.140082	0.229921	0.304408	0.115880	0.274725	0.084202
49	0.006505	0.110534	0.172534	-0.045666	-0.081583	-0.116620	0.195160
50	0.312281	0.307172	0.175356	-0.142650	0.103411	0.092701	0.382826

RAW RESIDUALS - ROWS ARE FULL CELLS - COLUMNS ARE VARIABLES

	11 MINORE	12 MININ	13 EZCOMP	14 USFNFC	15 RESPND	16 CLRPIC	17 UNNFO
51	-0.069135	0.026229	-0.112418	-0.175410	-0.123381	-0.078269	0.121541
52	-0.369162	0.743561	0.678620	0.534381	0.593173	0.653128	0.990363
53	0.250676	0.077825	-0.014385	0.053453	-0.115189	-0.042426	0.313032
54	-0.083175	0.215555	-0.031144	0.028265	0.056752	-0.146624	-0.186481
55	0.178206	0.140543	0.137467	-0.000378	0.004250	-0.153683	0.382066
56	-0.594806	-0.432116	0.094834	-0.600392	-0.080453	-0.038301	-0.340874
57	0.123822	0.006191	-0.000759	0.030886	-0.012885	0.102687	-0.053491
58	0.023727	-0.031452	-0.122558	0.039205	-0.010088	-0.144431	0.050652
59	0.265746	0.387112	0.038572	-0.049840	0.121326	0.217566	0.272740
60	-0.055591	-0.001258	-0.113230	-0.087174	-0.056200	-0.103415	0.073006
61	-0.082621	0.530080	-0.064162	0.820417	0.397710	0.392282	-0.891788
62	-0.255633	-0.142979	-0.206794	-0.379597	0.713007	-0.292336	0.035273
63	-0.241598	-0.045597	-0.114614	-0.281023	-0.242582	-0.399149	0.026975
64	-0.036832	-0.374212	-0.346136	-0.014370	0.039382	0.294012	-0.545964
65	0.064720	0.144794	0.285723	0.295449	0.025341	0.116867	0.168737
66	-0.008292	-0.078265	-0.306910	-0.204565	-0.309361	-0.117751	-0.054203
67	-0.428750	0.776765	0.655650	-0.508178	-0.508520	-0.402779	0.891290
68	-0.555765	-0.332844	0.589320	0.401627	0.392736	-0.486764	-0.166949
69	-0.228777	-0.005903	-0.053313	-0.258387	-1.291966	-0.171381	0.260111
70	0.597497	0.270810	0.175128	0.500747	-1.999051	0.132885	0.450923
71	0.470481	0.661201	0.608799	0.410552	0.442206	0.548901	0.892684
72	0.307764	0.280615	-0.046094	0.237649	0.312571	0.317772	0.127960
73	0.384752	-0.142444	-0.938727	0.037635	0.327868	0.383154	-0.694979
74	-0.142264	-0.302053	-0.305056	-0.202560	-0.170375	0.099169	-0.053218
75	0.250677	0.107994	-0.276616	0.496574	0.228707	-0.063231	0.270927
76	0.410998	0.101602	0.080752	-1.703440	-0.122662	-0.081182	0.364654
77	0.283983	0.491993	-0.485578	0.206364	0.273595	0.334834	-0.193585
78	-0.141978	-0.195678	-0.148073	-0.821837	-0.271313	-0.254190	-0.262214
79	0.035009	0.231263	-0.157373	-0.105185	-0.022682	-0.022142	0.131514

80	-0.407883	-0.083064	-0.158847	-0.495366	-0.052278	-0.088175	0.179548
81	-0.358673	-0.311679	-0.357036	-0.278713	-0.304759	-0.106126	-0.060059
82	0.193745	0.301278	0.171857	0.071861	0.118449	0.222904	0.378657
83	0.686900	0.800986	-1.354109	-0.461487	0.600413	-1.295047	-1.027616
84	-0.267103	-0.135564	0.772195	0.648332	0.686373	-1.194414	0.987084
85	-0.115732	-0.118299	-0.211928	-0.229579	-0.221843	-0.301859	-0.119247
86	-1.205411	-1.041358	-1.104561	-0.925593	-0.906546	-1.153144	-0.442186
87	0.173919	0.355426	0.638409	0.180226	-0.153920	-0.052511	0.239181
88	0.334241	0.265700	0.245776	-0.686455	0.328344	0.429538	0.332908
89	0.386159	0.468090	0.308002	0.247452	0.334586	0.425235	0.604957
90	0.713146	0.295031	0.665370	0.547438	0.649883	0.240617	0.532017
91	0.059324	0.005356	-0.012963	0.013192	0.050154	-0.043030	-0.108876
92	0.062549	-0.018732	0.103704	0.070129	0.000973	0.025332	0.036133
93	-0.088035	-0.266359	-0.073554	-0.055094	-0.108224	-0.228736	-0.130078
94	0.001030	-0.039712	-0.008055	0.115664	-0.026421	0.092685	0.162119
95	0.068648	0.255673	0.059003	0.123243	0.028429	0.137899	0.143105
96	0.026355	-0.195164	-0.176382	-0.112719	0.092053	-0.089203	-0.099769
97	0.119411	0.068286	0.170451	-0.555841	-0.492536	-1.223864	-1.226245
98	-0.353602	-0.404773	-0.272182	-0.355855	-0.277239	-0.308482	-0.299184
99	-0.065492	0.057121	-0.011711	-0.047478	-0.034085	-0.076407	0.068404
100	0.158881	0.273604	0.054806	0.155123	0.225656	0.172962	-0.055516

RAW RESIDUALS - ROWS ARE FULL CELLS - COLUMNS ARE VARIABLES

	11 MINPRF	12 MININ	13 EZCOMP	14 USFNFO	15 RESPND	16 CLRPIC	17 UNNFO
101	0.023175	-0.189743	-0.019217	0.038798	-0.113221	-0.179999	-0.107482
102	-0.086653	0.075106	0.062551	0.066631	0.034321	0.066755	-0.124866
103	-0.050404	-0.143444	-0.105280	0.012510	-0.105862	0.126555	0.168550
104	-0.300340	-0.278641	0.021318	-0.072120	-0.021334	0.095783	0.018688
105	-0.054343	-0.337668	-0.210071	-0.346516	-0.043066	-0.588199	0.033389
106	0.358359	0.332130	0.433011	0.310212	0.215088	-0.015674	0.031878
107	0.493041	0.714075	-1.345560	-0.547916	-0.067769	0.013187	0.398188
108	0.320028	-0.458984	0.511808	0.252070	0.247528	0.328569	-0.174752
109	-0.383975	0.104466	-0.411889	-0.138111	-0.416512	-0.320797	-0.660051
110	0.081902	-0.013037	0.112145	0.050764	0.148765	0.022362	-0.121879
111	-0.389804	-0.382788	0.128464	0.097373	-0.154663	-0.360239	-0.314906
112	0.346275	0.285062	0.031286	0.010995	0.296998	0.364234	0.134882
113	0.392272	0.348512	0.107589	0.120814	0.132958	0.214867	0.149582
114	-0.030740	-0.324547	-0.285044	-0.079200	0.198255	0.280249	-0.173357
115	-0.020445	0.217526	0.055839	0.050768	0.056180	0.126595	0.670573
116	0.056542	0.094867	-0.039936	-0.152103	0.018620	-0.100880	-0.138081
117	-0.647461	-0.391683	-0.613633	-0.642284	-0.645421	-0.600247	-0.423380
118	0.036670	-0.064742	-0.077694	0.014845	-0.044409	-0.070579	0.039394
119	-0.268555	-0.112352	-0.194039	-0.408391	-0.323562	-0.289168	0.025725
120	0.255801	0.211572	0.222175	0.081836	0.002792	0.019402	0.319492
121	0.032789	0.038512	0.379542	0.056822	0.118090	-0.065216	0.471552
122	0.128786	-0.147637	-0.094155	0.366641	0.404049	0.435418	-0.363747
123	-0.210893	-0.237363	-0.153454	-0.166707	-0.113987	-0.165867	0.063314
124	-0.234894	-0.199543	-0.433596	-0.327261	-0.320758	-0.245087	-0.559237
125	-0.428914	-0.359557	-0.387153	-0.430637	-0.467645	-0.463318	-0.375874
126	0.069463	-0.367576	-0.048946	0.131563	-0.055971	0.327791	-0.646888
127	-0.036882	0.125632	0.075088	0.131549	0.085993	0.043173	-0.153160
128	0.056059	0.235679	-0.296471	0.064016	0.552242	0.114107	0.470985
129	0.383047	0.562620	-0.772437	0.030669	-0.255128	0.429489	-0.101955
130	0.229043	0.226070	0.237200	0.473821	0.453498	-0.669878	-0.487254
131	-0.172540	0.024435	0.065955	0.130950	-0.016919	-0.083067	0.125521

132	0.029147	0.130099	-0.113847	0.038058	0.113607	0.113096	-0.025055	
133	0.087500	0.084053	0.171070	0.164858	0.036835	0.085305	0.127408	
134	0.235465	0.328182	0.177516	0.153031	0.271274	0.311162	0.147475	
135	0.010819	-0.016636	0.057591	-0.026962	0.007540	0.088610	-0.082471	
136	-0.231784	-0.084754	-0.164429	-0.305384	-0.253042	-0.223913	0.038892	
137	0.595204	0.742147	0.692938	0.494602	0.562256	0.591469	0.965953	
138	0.121520	-0.102576	0.225470	0.191422	0.095649	0.321500	0.273445	
139	-0.039530	0.111925	0.018244	0.041647	-0.020461	-0.099961	0.202898	
140	0.103057	0.192420	0.185456	0.032148	0.088590	0.125673	0.086916	
141	-0.007455	-0.182028	0.098379	-0.035922	0.039887	-0.017278	0.104255	
142	-0.205537	0.242585	0.188383	0.370208	0.463095	0.478418	-0.234808	

RESIDUALS IN STD. DEV. UNITS - FULL CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 SUPDFC	4 SATBRF	5 CRDNFO	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PMPCON
1	-0.122707	0.301162	0.421179	0.405052	0.199500	0.452811	0.612321	0.624759	0.346789	-0.097486
2	0.708445	-4.081608	-4.545201	-4.105260	-3.710610	-3.438307	-3.827729	-3.930879	-4.035770	-4.071887
3	-0.898869	-0.547317	-0.097856	0.470830	0.699706	0.151511	1.146488	1.115498	-0.226266	-0.499645
4	0.789535	0.538013	0.264276	0.861778	0.421754	0.586303	1.211795	0.608729	0.512628	0.399050
5	-2.229840	-1.785560	-2.024520	-1.871337	-1.550889	-1.484736	-1.391624	-1.464351	-1.578084	-1.635338
6	-0.555844	-0.552876	0.071176	-0.641037	-0.413713	-0.327115	-0.973027	-1.060577	-0.309125	-0.726479
7	0.723951	0.953434	-0.559288	0.686341	0.850138	0.880655	1.238608	1.177506	1.205498	0.889506
8	0.462564	0.728738	0.569754	0.464330	-0.446120	0.673429	-0.062349	-0.185666	-0.188394	-0.434940
9	-1.213851	-1.544920	0.268225	-0.344248	-0.153414	-1.746388	-1.252076	-1.333389	-2.051198	-1.372503
10	0.738908	-0.289209	0.832351	0.743225	-0.259141	-1.298027	-1.299504	-1.402343	-0.146320	-1.470359
11	-0.868406	-0.513905	-0.693249	-0.678312	-0.414085	-0.420383	-0.090392	-0.201696	-0.239363	-0.346461
12	0.511994	0.602124	0.744888	0.926111	0.888750	0.720922	-0.202918	0.486551	0.563128	0.731034
13	0.654386	0.753326	0.365633	0.304257	0.467500	0.477534	1.131699	0.319868	1.120509	0.875595
14	0.580455	0.730139	0.645352	0.334248	-0.015857	0.735336	-0.626856	-0.864273	-0.393862	-0.101326
15	-0.146012	-0.014021	0.809205	-0.216531	0.121365	0.603493	0.898571	0.214179	-0.138266	0.085010
16	-0.676585	-0.489317	-0.450931	-0.438542	-0.261342	-0.254655	-0.151379	-0.122465	-0.231309	-0.260098
17	0.864598	0.991051	0.975134	0.870943	0.929190	0.943367	1.102150	1.170752	1.116187	0.966491
18	0.603210	-0.466601	0.776855	-0.550594	0.774247	0.736141	-0.198807	-0.152419	-0.277705	-0.357954
19	1.219281	1.128589	1.210359	1.071316	1.084461	1.205971	-0.011124	-0.028696	1.185544	-0.063248
20	0.258315	0.270167	0.240031	0.119927	0.237494	-0.239814	0.282542	0.168225	0.167384	0.224459
21	-0.406851	-0.226013	0.019630	-0.262022	-0.069625	-0.266229	-1.081166	-0.126689	-0.662807	-0.039038
22	-0.032139	0.586131	0.029885	0.407716	0.512205	0.570170	0.339700	0.312922	0.337796	-0.281455
23	-0.069205	0.063102	0.052827	0.157144	0.330087	0.414604	0.323660	0.075052	0.554479	0.405239
24	-0.522049	-0.127653	-1.093361	-0.659222	-0.837200	-0.758317	-0.743823	-0.294531	-0.573430	-0.206408
25	0.415663	0.285539	0.349412	0.754483	0.190673	0.158776	-0.105181	-0.395101	-0.193437	-0.440227
26	0.170074	-0.463543	-0.546516	-0.557095	-0.371580	0.173189	0.265736	0.001979	-0.023024	0.318837
27	-1.457069	-1.580442	-2.103994	-1.334236	-1.202681	-0.984285	-1.847478	-1.970814	-2.028706	0.613543
28	0.047526	-0.016157	0.032658	0.069827	0.066322	0.098359	0.074256	0.038553	0.007051	-0.035806
29	0.106614	0.017977	-0.009603	-0.044173	0.038652	-0.030965	0.046051	0.116445	0.037299	0.094670
30	-0.020124	-0.027353	0.085966	0.015088	-0.051452	-0.265594	0.062560	-0.080810	-0.020827	-0.010296
31	-0.077582	-0.063892	-0.103569	-0.061526	-0.153766	0.076047	-0.142102	-0.092825	-0.045314	-0.128312
32	0.987131	-0.155282	0.301080	0.760700	0.363208	1.049305	-0.099930	0.526069	-0.109149	0.388165
33	0.725744	-0.379578	0.766462	0.538689	-0.362393	-1.327560	1.109183	-0.196147	-0.202192	0.899978
34	0.035102	0.172871	0.159564	0.105120	0.016296	0.042445	0.073597	-0.000936	0.113049	0.086466
35	-0.307091	-0.092573	-0.155758	0.107410	0.029802	-0.142392	-0.042965	0.004402	0.024074	0.075766
36	-0.086738	0.172808	0.190505	-0.146123	0.136218	0.087087	0.186642	0.427578	0.420950	0.560433
37	0.049536	-0.239024	0.168915	0.095318	0.033507	0.027797	-0.226010	-0.248856	-0.183141	-0.124105
38	0.674568	0.886086	0.721244	0.483521	-0.436384	-1.430577	1.033712	-0.281131	1.001292	0.890601
39	-0.192356	-0.132154	-0.115086	-0.166445	-0.005291	-0.014580	0.108064	-0.056082	0.051776	0.044005
40	0.104614	0.020548	0.051158	0.050919	0.095176	0.063535	0.076495	0.102620	0.070646	0.234914
41	-0.159604	-1.021919	-0.062928	-0.165889	0.089295	0.114963	0.055514	0.296163	0.119537	0.136020

42	0.058291	0.024717	-0.079914	-0.048522	-0.215968	0.002993	-0.363857	-0.266556	-0.297132	-0.215059
43	0.070397	0.190728	-0.062872	0.135761	0.134781	0.158545	-0.015891	0.027246	-0.062174	-0.089174
44	0.063877	-0.236581	-0.150447	-0.051030	-0.201802	-0.267501	-0.397735	-0.168024	-0.290284	-0.292070
45	-0.298467	-0.259768	-0.150304	-0.417454	-0.172150	-0.637891	-0.402827	-0.415760	-0.191603	-0.614933
46	-0.047119	0.100267	0.024331	-0.011143	-0.071657	-0.173531	-0.060285	-0.142971	0.105609	0.001809
47	-0.211731	0.146028	-0.185623	-0.405929	-0.071823	-0.187159	-0.256480	-0.178430	-0.254534	-0.267286
48	-0.054990	0.340537	-0.315583	0.007102	-0.168023	0.150043	0.288202	0.232806	0.233501	0.280531
49	0.284214	0.212818	-0.209742	0.136305	-0.216458	0.147167	0.038374	0.375362	0.412320	-0.142566
50	0.472527	0.367817	0.324017	0.055690	0.133543	0.341014	0.235853	0.305638	0.421769	0.269087

RESIDUALS IN STD. DEV. UNITS - FULL CELLS X VARIABLES

	1 AMTNFO	2 ACCNFC	3 SUPDFC	4 SATARF	5 ORONFO	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PMPCON
51	0.455362	-0.104519	-0.215848	-0.317608	-1.306259	0.015273	0.465370	-0.124863	0.540806	-0.170709
52	0.800806	0.926095	0.813659	0.547853	0.715700	-0.286027	-0.255458	-0.275079	1.051792	0.855333
53	0.120590	-0.231180	-0.166555	0.032622	0.025060	0.281610	0.285947	0.195211	0.230358	-0.011874
54	0.179213	0.022045	-0.077093	-0.017430	0.013778	0.047831	0.248802	-0.432879	-0.076461	-0.279080
55	-0.788143	0.519333	0.144173	0.018713	-0.059916	-0.039300	0.170062	0.285410	0.290396	0.213006
56	-0.482233	0.165337	-0.253204	-0.083346	-0.443123	-0.192282	-0.377873	-0.304616	-0.322987	0.235149
57	-0.013965	-0.039746	0.205462	0.112362	0.042552	0.052241	0.077325	0.056028	0.040798	0.052455
58	0.047110	0.216483	-0.048121	0.152747	-0.159946	-0.143685	-0.020885	0.121651	-0.187750	-0.073322
59	0.177363	-0.447576	0.035539	0.456548	0.257810	0.323900	-0.029523	0.123034	-0.141102	0.256005
60	-0.109784	-0.114720	-0.051601	-0.146731	-0.029150	-0.132483	0.026640	0.029505	0.073950	-0.207421
61	0.470867	-0.081861	0.451762	0.275654	0.971860	0.537191	-0.115950	-0.144116	-0.071746	0.506082
62	-0.463484	-0.306558	-0.410177	0.653405	0.816916	0.872400	1.093163	1.056531	-0.164789	-0.206278
63	-0.475690	-0.170355	-0.239027	-0.475498	-0.263051	-0.182716	-0.196491	-0.130923	0.027770	-0.114102
64	-0.138887	-0.088764	0.329591	0.222126	-0.341907	-0.631025	-0.075075	-0.183699	-0.600066	-0.282385
65	0.400327	0.291792	0.148122	0.012212	0.277967	-0.168303	0.467267	0.398347	-0.061987	-0.211958
66	0.004347	-0.183503	-0.116522	-0.265776	-0.048174	-0.158555	-0.206172	-0.003392	-0.155030	-0.189814
67	0.520671	-0.408681	0.692802	-0.618741	0.844140	-0.242719	-0.216385	-0.167252	1.112572	-0.457820
68	0.454538	-0.405966	-0.734054	-0.730794	-0.402902	-0.336792	0.991222	1.045704	-0.234672	0.668496
69	0.193151	-0.004165	-0.268673	-0.353043	0.012812	-0.001584	-0.309735	-0.558423	0.322709	-0.043864
70	0.535628	0.228170	-0.570202	0.037506	0.305518	-0.251661	-0.244428	-0.183282	-0.239246	0.854831
71	0.469498	0.853383	-0.006076	0.525616	0.770448	0.739135	0.963175	1.029674	1.015207	0.756975
72	-0.136787	0.554124	0.364921	-0.025479	-0.872344	0.279200	0.457330	0.133972	0.174808	-0.087072
73	-0.061692	0.329427	0.498473	0.352272	0.114027	0.343191	0.411409	-0.267767	-0.568660	-0.799432
74	-0.329714	-0.357005	-0.397455	-0.239591	-0.334094	-0.130587	-0.012530	-0.080340	0.230497	-0.101576
75	0.551134	0.877726	0.318629	-0.168516	-0.269651	0.089445	0.220115	0.224768	-0.634990	-0.712693
76	0.289747	0.653029	-0.100870	-0.190607	0.146063	0.063031	0.383366	-0.283757	0.356008	-1.016995
77	0.723614	0.655745	0.463255	0.257104	0.610993	0.511392	-0.291580	-0.352751	-0.340812	0.721406
78	-0.011098	-0.253503	-0.266566	-0.297604	-0.254670	-0.191581	-0.174016	-0.284055	0.244871	-0.608637
79	-0.137892	-0.332417	0.375792	-0.119773	0.161044	-0.073346	-0.199021	-0.002109	-0.021619	-0.137631
80	-0.600647	-0.355604	-0.292361	-0.343016	0.020042	-0.767819	-0.744375	-0.521052	-0.668758	-0.230427
81	-0.562939	-0.058219	-0.453770	-0.231826	-0.230012	-0.673692	0.046393	0.099858	-0.219780	-0.194681
82	-0.395511	0.199559	0.090344	-0.009362	0.175312	-0.023050	-0.184270	-0.163722	0.267832	0.100025
83	0.689030	-0.442402	0.776946	0.568310	0.781245	-1.315146	-0.230191	-0.244984	-0.258828	-0.408306
84	-1.807571	-0.214990	0.875690	0.678270	-0.310853	-1.201994	-0.231658	-0.232676	-0.212180	0.818284
85	-0.444783	-0.556799	-0.202248	-0.240720	-0.603073	-0.019712	-0.306645	-0.513737	-0.564927	-0.112101
86	0.415436	-0.990328	-1.506628	-1.062494	-1.138455	-0.769373	-1.189257	-1.129128	-1.199991	-0.824460
87	0.610691	0.072415	-0.080564	0.646833	0.432515	0.428649	0.900962	0.592393	0.147506	0.402129
88	0.349304	0.683049	0.606038	0.424821	0.658010	0.583046	0.541281	-0.022998	0.271271	0.057827
89	0.292410	0.419145	0.375882	0.247443	0.397566	0.510442	1.042722	1.102158	0.433670	1.004619
90	-0.641941	0.194449	0.177603	0.625195	0.813280	0.845650	0.369283	0.379941	0.340627	0.904346
91	0.089713	-0.017600	0.020919	0.087290	-0.098433	-0.166258	-0.179375	-0.178428	-0.095908	0.022175
92	-0.037658	-0.025844	-0.018455	-0.003246	0.024842	0.081385	0.091748	0.050950	0.072957	0.014964
93	-0.236197	-0.007654	-0.190091	0.005899	-0.195324	-0.065089	-0.000936	0.209344	0.043625	0.015637

94	0.101148	0.042017	0.058421	0.113708	0.112834	-0.029923	0.083456	0.057381	0.077319	0.020828
95	0.442506	0.223018	0.094294	0.250699	0.043988	0.378327	0.001377	0.244328	0.305704	0.028711
96	0.150330	0.170201	-0.234115	-0.002673	-0.498854	-0.314609	0.037483	0.112795	-0.067915	-0.159580
97	-0.715323	-1.194329	-0.182218	-0.287851	-0.543628	0.079333	-0.185500	0.004453	-0.694648	-0.341183
98	-0.707525	-0.416629	-0.380497	-0.509863	-0.127914	0.089081	-0.356925	-0.461382	-0.267351	-0.319040
99	0.032560	-0.030085	-0.185286	-0.258580	-0.048116	-0.135952	-0.137405	0.038842	-0.125323	-0.059397
100	0.101937	0.035127	0.237587	0.050563	0.175887	0.174439	-0.027472	-0.008906	0.138730	0.165175

RESIDUALS IN STD. DEV. UNITS - FULL CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 SUPDFC	4 SATBRF	5 ORDNFO	6 MESLEN	7 QUALVY	8 AMTAYZ	9 SPKGRA	10 PMPCON
101	-0.007181	-0.027370	-0.128666	0.146410	0.204217	0.131597	0.208904	0.246378	0.210885	-0.061240
102	0.090639	0.079639	0.118388	0.107333	-0.022836	0.200906	0.296962	0.254487	0.116424	0.275881
103	0.049084	0.104859	0.328781	0.010265	0.085778	0.114393	0.026968	-0.001788	0.021248	-0.201931
104	-0.522902	-0.312607	0.028400	-0.304018	0.134215	-0.092833	-0.018954	-0.181659	0.128336	-0.160954
105	-0.161995	0.069020	-0.648829	-0.470872	-0.055066	-1.014479	-0.464550	-0.267959	-0.485447	0.236965
106	0.268809	0.399227	-0.107600	0.249601	0.295430	0.188625	0.368053	0.200169	0.053350	0.259108
107	-2.920146	-1.632237	-2.660069	-2.550544	-1.514545	-1.984794	-0.395451	-0.279449	-0.233559	0.135284
108	0.183286	0.649058	0.459955	0.226258	0.612142	0.520154	0.813662	0.921199	0.974247	0.647096
109	0.042059	-0.063276	-0.768623	0.036336	-1.049614	-0.993998	-1.384155	-0.348403	-1.580803	0.037427
110	-0.032394	0.234109	0.212939	-0.019075	-0.126649	-0.417707	-0.070456	0.424942	-0.083920	0.141182
111	-0.029798	-0.027162	-0.846101	-0.476276	-0.341194	-0.169183	0.146976	0.170670	0.306766	0.168119
112	0.198243	0.246162	0.524272	0.283142	0.359848	0.239994	0.158102	0.264214	0.272853	0.123489
113	0.393498	0.260326	0.291185	0.393101	0.123737	0.353146	0.470354	0.276522	0.319500	0.431950
114	0.132111	-0.277620	0.092907	0.171090	-0.031207	0.145920	-0.830603	-0.125217	0.226457	-0.280410
115	0.075628	0.359815	-0.001477	0.184728	0.192917	0.241919	0.278264	0.250687	0.175984	0.462311
116	-0.070394	0.108268	-0.067024	-0.080124	0.037973	-0.042798	0.169591	0.325086	0.231610	-0.206328
117	0.394046	0.586280	0.562648	0.029835	0.087190	-0.472080	-1.024199	-1.008611	-0.892507	-0.509954
118	-0.251892	-0.041165	0.174752	-0.063656	-0.149276	0.250582	-0.263313	-0.448918	-0.335125	-0.260464
119	-0.597198	-0.215569	-0.529448	-0.669436	-0.328197	-0.209476	-0.254921	-0.283155	-0.172726	-0.315521
120	-0.029587	0.124044	-0.103075	-0.101110	-0.060377	0.291095	0.407101	0.486461	0.403768	0.288468
121	-0.055437	-0.069328	0.130026	0.156689	0.184140	0.273721	0.078796	0.373151	0.050555	-0.179057
122	0.409004	0.905882	0.676965	0.386601	0.404554	-0.209805	-0.110966	-0.383686	-0.618264	0.190612
123	-0.076705	-0.258578	0.096856	-0.235253	-0.225937	-0.236220	0.052285	-0.144471	-0.060883	-0.217719
124	-0.364199	-0.328879	0.414578	-0.418358	-0.230724	-0.689247	-0.752971	-0.817271	-0.616631	-0.711632
125	-0.348483	-0.553575	-0.720633	-0.595010	-0.404146	-0.513579	-0.413945	-0.370688	-0.698742	-0.086660
126	0.071093	-0.743828	0.262991	0.257513	-0.056013	-0.038802	0.122421	0.282575	-0.497232	0.090639
127	-0.100566	0.368004	0.064712	-0.004483	0.017306	-0.029055	-0.132674	-0.097800	-0.286743	-0.213664
128	0.600825	-1.571522	0.205623	0.626370	0.271969	0.227140	-0.485711	-0.305456	0.365427	-0.335112
129	0.339438	-0.125557	-1.541197	0.404359	-0.073194	-0.160898	-0.531633	0.040585	-0.378041	-0.027328
130	0.265507	-0.817008	0.238820	0.274413	0.538636	0.458528	0.219881	0.138354	0.188946	0.301535
131	0.081030	-0.182508	-0.186999	0.292307	0.092321	0.158312	-0.220480	-0.089412	-0.424436	-0.358360
132	0.049198	0.111845	-0.041931	0.193901	0.045203	0.034755	-0.089667	-0.144332	-0.029381	-0.013607
133	-0.035621	-0.064286	0.116750	0.089911	0.040665	0.172332	0.155531	0.057236	0.134333	0.224099
134	0.535241	0.271585	0.056771	0.174120	0.261385	0.330122	0.506512	0.212625	0.257775	0.296594
135	-0.002707	0.090114	0.001993	-0.066652	0.045106	0.040587	-0.006245	-0.125248	0.056442	-0.003623
136	0.216961	-0.791705	-0.382715	-0.548219	-0.235692	-0.700773	0.310379	0.345783	0.477229	0.349777
137	0.628537	0.863092	0.746327	0.429295	0.700679	0.719305	0.891975	0.905475	1.034611	0.861589
138	0.332978	-0.031679	0.104785	0.430471	0.117284	0.349370	0.154977	0.215042	0.163669	0.180604
139	-0.073306	0.220243	0.252625	-0.038333	0.008758	0.147334	-0.086106	-0.056360	0.132867	-0.259392
140	0.045476	-0.136127	0.027080	0.057595	0.233063	-0.023059	0.140576	0.247291	0.194297	0.243823
141	-0.047671	0.004633	-0.051371	0.019245	0.101896	0.146406	0.129516	0.023595	0.155456	0.143549
142	0.456239	0.262811	0.124043	0.308349	0.126782	-0.528904	-0.763526	-0.311202	-0.657781	-0.173830

RESIDUALS IN STD. DEV. UNITS - FULL CELLS X VARIABLES

	11 MTNPRE	12 PINTA	13 EZCOMP	14 USFNFC	15 RESPND	16 CLRPTC	17 UNNFO
1	0.666525	0.601837	0.521512	0.142089	0.367982	0.481091	0.132573
2	-4.100407	-3.468887	-4.085394	-4.154881	-4.117656	-4.266320	-3.226542
3	-0.697662	-0.421519	0.057547	-0.208485	0.427412	0.563025	0.343141
4	0.898728	0.954742	0.339867	0.756872	0.824006	0.315274	-1.020531
5	-1.869735	-1.505910	-1.769171	-2.005710	-1.896206	-1.923346	-0.115552
6	-0.834228	-0.328254	-0.735312	-0.708555	-0.877586	-0.653174	-0.263237
7	-0.505646	-0.230815	0.910576	0.632093	0.672569	0.759430	0.926041
8	0.489770	0.660604	-0.499552	0.350476	0.452538	0.525749	0.850066
9	-1.574835	-0.119079	-1.451736	0.147829	-0.242143	-0.354880	0.528010
10	0.725611	-0.237234	-1.533594	0.642874	0.731501	0.804573	-0.053461
11	-0.682302	-0.423787	-0.475513	-0.806747	-0.675805	-0.694865	-0.129436
12	0.670663	0.020693	0.846012	0.628923	0.610852	0.732456	0.076843
13	0.301926	0.444591	0.793399	0.628908	0.629076	0.330007	0.938323
14	-0.204420	0.225929	-0.099718	0.278366	0.731477	0.373001	0.120342
15	0.220789	0.122071	0.499819	0.635704	0.431529	0.524447	-0.590173
16	-0.468925	-0.280076	-0.416667	-0.568316	-0.503267	-0.468688	-0.041178
17	0.790104	0.866253	0.911603	0.772349	0.750409	0.924446	1.015751
18	0.581855	0.675741	0.735580	0.530731	0.570378	0.690765	-0.101841
19	0.042515	0.089433	1.120899	1.054893	1.173807	1.318196	0.181529
20	0.092720	0.186540	0.411924	0.060147	0.377868	0.209974	0.045595
21	-0.276017	-0.516289	-0.381152	-0.342538	-1.251339	-1.310560	-0.533824
22	0.742279	0.158215	0.124382	0.353859	0.359511	0.420109	0.245341
23	0.018174	0.151324	0.154043	0.083479	0.196207	0.246702	-0.029037
24	-0.058061	0.106623	-0.068899	-0.112103	0.175081	-0.042145	0.304990
25	-0.003692	0.155264	0.383349	0.634646	0.713133	0.253490	0.153261
26	-0.437431	-0.214419	-0.233287	-0.480980	-0.397226	-0.401308	-0.115725
27	0.628115	0.632570	-1.904807	-1.366156	-3.566167	0.648342	-0.873971
28	0.028405	-0.003891	0.012985	0.057564	0.068381	0.037190	0.067895
29	0.015709	0.073486	0.051708	0.064398	-0.048028	-0.014400	0.082057
30	0.036518	-0.139215	0.064191	0.076645	0.071473	0.038283	0.000185
31	0.010643	0.042078	-0.024031	-0.020140	-0.022996	-0.038638	-0.110058
32	-1.331141	-1.079404	-0.175278	0.267673	0.364623	1.084090	0.633697
33	0.867940	0.889587	-0.351301	0.830057	0.740229	0.850409	-1.004703
34	0.080434	0.010765	-0.017810	0.099556	0.027038	0.059693	-0.047945
35	-0.113513	-0.100957	0.019954	-0.365060	-0.169154	-0.105912	-0.047704
36	0.214009	0.034029	0.424803	0.215547	0.202604	0.217673	0.204339
37	0.056565	0.081570	-0.139883	0.142580	0.117944	0.230567	-0.071166
38	0.746648	0.765413	0.824983	0.531882	0.681531	0.789247	1.079983
39	-0.176690	-0.048241	0.071659	-0.083528	-0.106981	-0.015585	-0.079615
40	0.091954	0.069574	0.112755	0.003634	0.037454	-0.008986	0.010988
41	-0.359051	0.132756	0.168621	-0.382313	-0.112777	-0.359541	-0.108391
42	0.072698	0.040894	-0.139843	0.136228	0.091401	-0.012827	-0.006529
43	-0.133599	-0.117849	0.043451	-0.118644	0.018162	0.104305	-0.096424
44	-0.142091	-0.243852	-0.123645	-0.117632	-0.037119	-0.239255	-0.165750
45	0.291569	0.465169	-0.829884	-0.267589	-0.360173	-0.386728	-0.343881
46	0.066125	0.119486	-0.024501	-0.005143	0.034088	-0.041778	0.120793
47	-0.311178	-0.289428	-0.304740	-0.234483	-0.152158	-0.307406	-0.117785
48	-0.240636	-0.151004	0.283746	0.367726	0.138044	0.347735	0.087707
49	0.007830	0.119153	0.212925	-0.055165	-0.097188	-0.147613	0.203282
50	0.375881	0.331123	0.216407	-0.172322	0.123191	0.117337	0.398758

RESIDUALS IN STD. DEV. UNITS - FULL CELLS X VARIABLES

	11 MINPRE	12 MININ	13 EZCOMP	14 USENFO	15 RESPND	16 CLRPIC	17 UNNFO
51	-0.083215	0.028274	-0.138736	-0.211856	-0.146981	-0.099069	0.126600
52	-0.444348	0.801538	0.837487	0.645534	0.706632	0.826702	1.031579
53	0.301730	0.083893	-0.017753	0.064572	-0.137221	-0.053701	0.326059
54	-0.100115	0.232193	-0.038435	0.034144	0.067607	-0.185591	-0.194242
55	0.214500	0.151933	0.169648	-0.000457	0.005063	-0.194526	0.397966
56	-0.715947	-0.465809	0.117035	-0.725276	-0.095841	-0.048480	-0.355060
57	0.149040	0.006674	-0.000937	0.037210	-0.015350	0.129977	-0.055718
58	0.028559	-0.033904	-0.151250	0.047360	-0.012018	-0.182814	0.052760
59	0.319869	0.417256	0.048095	-0.060206	0.144533	0.275386	0.284090
60	-0.066914	-0.001356	-0.139738	-0.105307	-0.066949	-0.130898	0.076044
61	-0.099448	0.571411	-0.079182	0.991067	0.473782	0.496533	-0.928901
62	-0.307697	-0.154128	-0.255206	-0.458555	0.845388	-0.370027	0.036741
63	-0.290803	-0.049152	-0.141446	-0.335477	-0.288982	-0.505224	0.028058
64	-0.044334	-0.403350	-0.427167	-0.017359	0.046915	0.372147	-0.568685
65	0.077901	0.156084	0.352612	0.356903	0.030188	0.147925	0.175759
66	-0.009981	-0.084368	-0.378758	-0.247116	-0.368534	-0.149044	-0.056459
67	-0.516071	0.837330	0.809140	-0.613881	-0.605788	-0.509820	0.928382
68	-0.668955	-0.358797	0.727282	0.485167	0.467857	-0.616124	-0.173897
69	-0.275371	-0.006364	-0.065793	-0.360453	-1.539087	-0.216927	0.270936
70	0.719186	0.291526	0.214126	0.604904	-2.333768	0.168201	0.469689
71	0.566302	0.712756	0.751321	0.495548	0.526789	0.694775	0.929835
72	0.370445	0.302455	-0.056885	0.287081	0.014975	0.402221	0.133288
73	0.463112	-0.153550	-1.158487	0.045463	0.390581	0.484979	-0.723902
74	-0.171238	-0.325604	-0.376471	-0.244694	-0.203559	0.125524	-0.055433
75	0.301731	0.116415	-0.341372	0.599863	0.272453	-0.080035	0.282202
76	0.494704	0.109524	0.099656	-2.057762	-0.146124	-0.102757	0.379830
77	0.341820	0.530354	-0.599254	0.249289	0.331883	0.423818	-0.201641
78	-0.170894	-0.210535	-0.182738	-0.992782	-0.323208	-0.321743	-0.273126
79	0.042140	0.249295	-0.194214	-0.127063	-0.027021	-0.028026	0.136987
80	-0.490954	-0.085541	-0.196034	-0.598404	-0.109929	-0.111608	0.187020
81	-0.431722	-0.335981	-0.440619	-0.336686	-0.363052	-0.134330	-0.062558
82	0.232603	0.331345	0.150385	0.068808	0.141105	0.282142	0.394415
83	0.826797	0.863440	-1.671111	-0.557478	0.715257	-1.639215	-1.070382
84	-0.321503	-0.146134	0.891263	0.783188	0.817658	-1.511838	1.028164
85	-0.139302	-0.121523	-0.261541	-0.277332	-0.264276	-0.382080	-0.124210
86	-1.450910	-1.122555	-1.363143	-1.122952	-1.079346	-1.459600	-0.460589
87	0.209341	0.383139	0.787863	0.217713	-0.183361	-0.066466	0.249135
88	0.402314	0.286417	0.303313	-0.829240	0.390791	0.543691	0.346763
89	0.464805	0.504588	0.380107	0.258523	0.398583	0.538244	0.630133
90	0.858389	0.318035	0.821136	0.661307	0.774189	0.304563	0.554158
91	0.071407	0.005774	-0.015997	0.015935	0.107398	-0.054465	-0.113407
92	0.075288	-0.020193	0.127982	0.084717	0.031159	0.032364	0.037637
93	-0.105965	-0.285015	-0.090773	-0.066554	-0.128925	-0.289524	-0.135491
94	0.001239	-0.042809	-0.009940	0.139723	-0.031475	0.117317	0.168866
95	0.082629	0.275609	0.072815	0.148878	0.033867	0.174546	0.149061
96	0.031722	-0.210381	-0.159671	-0.136165	0.109708	-0.112909	-0.103921
97	0.143730	0.073611	0.210354	-0.671458	-0.586746	-1.549113	-1.277277
98	-0.425618	-0.436334	-0.335901	-0.425874	-0.330268	-0.390463	-0.311635
99	-0.078831	0.061574	-0.014453	-0.057353	-0.040605	-0.096712	0.071251
100	0.191240	0.294937	0.067637	0.187389	0.268919	0.218928	-0.057826

RESIDUALS IN STD. DEV. UNITS - FULL CELLS X VARIABLES

11 MINPRE	12 MININ	13 EZCOMP	14 USENFO	15 RESPND	16 CLRPIC	17 UNNFO

101	0.027899	-0.204538	-0.023716	0.046868	-0.134877	-0.227835	-0.111955
102	-0.104301	0.080562	0.077194	0.082507	0.040885	0.084496	-0.130062
103	-0.060670	-0.154628	-0.129926	0.015112	-0.126110	0.160187	0.175565
104	-0.361508	-0.259721	0.026309	-0.087121	-0.025414	0.121238	0.019466
105	-0.065411	-0.362557	-0.259245	-0.415076	-0.051304	-0.744517	0.034778
106	0.431344	0.358027	0.534380	0.374738	0.256229	-0.019840	0.033204
107	0.593456	0.769753	-1.660561	-0.661884	-0.080731	0.016692	0.414759
108	0.385207	-0.494777	0.631624	0.304502	0.294874	0.415889	-0.182024
109	-0.462177	0.112612	-0.508314	-0.166838	-0.496180	-0.406051	-0.687520
110	0.098582	-0.014054	0.138398	0.061323	0.177244	0.028305	-0.126952
111	-0.469193	-0.412635	0.158538	0.117627	-0.184246	-0.455975	-0.328012
112	0.416799	0.307289	0.038610	0.013282	0.353807	0.461031	0.140495
113	0.472164	0.375686	0.132776	0.145944	0.158389	0.271969	0.155807
114	-0.037001	-0.346853	-0.351773	-0.055674	0.236176	0.354727	-0.180572
115	-0.024609	0.234918	0.073848	0.105648	0.114576	0.160238	0.698480
116	0.068058	0.102264	-0.049285	-0.183741	0.022181	-0.127690	-0.143828
117	-0.779326	-0.422223	-0.757287	-0.775882	-0.768874	-0.759766	-0.441000
118	0.044138	-0.069790	-0.095883	0.017932	-0.052904	-0.089336	0.041034
119	-0.323250	-0.121112	-0.239465	-0.493338	-0.385475	-0.366016	0.026799
120	0.307899	0.228499	0.274187	0.058858	0.003326	0.024558	0.332788
121	0.039467	0.041547	0.468395	0.066641	0.140677	-0.082547	0.491177
122	0.155015	-0.159149	-0.116197	0.442903	0.481334	0.551133	-0.378885
123	-0.253845	-0.255871	-0.189378	-0.201382	-0.135790	-0.209947	0.065948
124	-0.282733	-0.215102	-0.535103	-0.395333	-0.382111	-0.310220	-0.582511
125	-0.516269	-0.388067	-0.477788	-0.520211	-0.557094	-0.586448	-0.391517
126	0.083611	-0.356668	-0.060404	0.158929	-0.114328	0.414904	-0.673809
127	-0.044394	0.135428	0.092667	0.158912	0.102441	0.054647	-0.159534
128	0.067476	0.254055	-0.365876	0.077332	0.657872	0.144432	0.490585
129	0.461060	0.606488	-0.953268	0.037048	-0.356343	0.543628	-0.106198
130	0.275691	0.243657	0.292729	0.572378	0.540241	-0.847902	-0.507532
131	-0.207681	0.026345	0.081445	0.158188	-0.020155	-0.105143	0.130744
132	0.035083	0.140243	-0.140499	0.046022	0.135337	0.143151	-0.026098
133	0.105321	0.090606	0.211118	0.159149	0.043880	0.107976	0.132710
134	0.283420	0.353772	0.157368	0.184862	0.323162	0.393856	0.153613
135	0.013022	-0.017533	0.071074	-0.032570	0.008583	0.112158	-0.085904
136	-0.278990	-0.091405	-0.202923	-0.368905	-0.301442	-0.283419	0.040511
137	0.716426	0.800014	0.855158	0.557481	0.669801	0.748656	1.006152
138	0.146269	-0.110574	0.278253	0.231239	0.118709	0.406940	0.284825
139	-0.047581	0.120652	0.022514	0.050310	-0.024374	-0.126526	0.211342
140	0.124046	0.207424	0.228872	0.038835	0.118639	0.159071	0.090534
141	-0.008973	-0.196221	0.121409	-0.043293	0.047516	-0.021870	0.108594
142	-0.247398	0.261500	0.232484	0.447212	0.551673	0.605561	-0.244580

RESIDUALS AS T-STATISTICS - FULL CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 SUPDFO	4 SATBRF	5 ORDNFO	6 RESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PRPCON
1	-0.304981	0.748520	1.046812	1.006731	0.495844	1.125432	1.521884	1.552798	0.861922	-0.242296
2	0.710709	-4.094650	-4.559724	-4.118378	-3.722467	-3.449293	-3.839959	-3.943439	-4.048665	-4.084898
3	-1.278977	-0.778762	-0.139236	0.669932	0.995593	0.215581	1.631308	1.587212	-0.321948	-0.710932
4	1.122457	1.333544	0.375713	1.225163	0.599595	1.402195	1.722771	0.865410	0.728786	0.567317
5	-2.237290	-1.755540	-2.031284	-1.877589	-1.556070	-1.485697	-1.396274	-1.465244	-1.583357	-1.640802
6	-1.259548	-1.252823	0.161285	-1.452596	-0.937477	-0.741245	-2.204887	-2.404184	-0.700480	-1.646208
7	0.726496	0.956786	-0.561754	0.688754	0.853127	0.883751	1.242962	1.181645	1.209736	0.892633
8	0.463975	0.730561	0.571493	0.465747	-0.447482	0.675484	-0.062539	-0.186232	-0.188969	-0.436267
9	-1.726308	-2.167147	0.381464	-0.485581	-0.218182	-2.483669	-1.780672	-1.898313	-2.917163	-1.951939

10	0.741595	-0.250260	0.835377	0.745928	-0.260083	-1.302746	-1.304229	-1.407442	-0.146852	-1.475705
11	-0.871262	-0.515555	-0.695529	-0.680542	-0.415447	-0.421766	-0.090689	-0.202359	-0.240150	-0.347600
12	1.660816	1.953179	2.416280	3.004134	2.882943	2.338540	-0.658227	1.578411	1.826684	2.371340
13	1.143491	1.316382	0.645906	0.531667	0.816921	0.834455	1.977561	0.558946	1.958008	1.530037
14	1.318239	1.658178	1.465624	0.759093	-0.036103	1.669980	-1.423618	-1.962803	-0.894478	-0.230115
15	-0.331026	-0.031788	1.834560	-0.450899	0.276282	1.368187	2.037162	0.485567	-0.313465	0.192727
16	-0.678810	-0.490927	-0.452414	-0.439585	-0.262201	-0.255493	-0.151877	-0.123871	-0.232070	-0.260954
17	0.867419	0.594326	0.978317	0.873785	0.932723	0.946446	1.105747	1.174573	1.119830	0.969646
18	0.605203	-0.488209	0.779422	-0.552413	0.776804	0.738572	-0.199464	-0.193055	-0.278622	-0.359137
19	1.226273	1.135463	1.217300	1.077460	1.090580	1.212887	-0.011188	-0.028860	1.192343	-0.063610
20	0.920346	0.962573	0.855203	0.427285	0.846163	-0.854432	1.006667	0.599365	0.596369	0.799721
21	-0.920880	-0.511565	0.044431	-0.593069	-0.157592	-0.602592	-2.447148	-0.286752	-1.500220	-0.088360
22	-0.056164	1.024275	0.052225	0.712492	0.895089	0.996383	0.593633	0.546838	0.590306	-0.491848
23	-0.268705	0.245009	0.205113	0.610150	1.281643	1.609799	1.256689	0.306938	2.152897	1.573437
24	-1.780298	-0.435325	-3.778593	-2.248087	-2.855031	-2.586022	-2.536596	-1.004414	-1.955517	-0.703894
25	0.942264	0.647286	0.792079	1.710333	0.432236	0.359928	-0.238434	-0.904719	-0.438501	-0.997949
26	0.423772	-1.155008	-1.361752	-1.388111	-0.925863	0.431535	0.662133	0.004930	-0.057370	0.794444
27	-2.082979	-2.831177	-3.007802	-1.907380	-1.719314	-1.407102	-2.641096	-2.817412	-2.900173	0.877102
28	0.868991	-0.295412	0.597128	1.276744	1.221800	1.798438	1.357727	0.704926	0.128919	-0.654694
29	1.315604	0.221829	-0.118494	-0.545094	1.217349	-0.382108	0.568267	1.436917	0.460267	1.168215
30	-0.122083	-0.166181	0.521523	0.091535	-0.312141	-1.611266	0.379528	-0.490244	-0.126348	-0.062464
31	-0.712867	-0.587074	-0.951649	-0.565335	-1.412880	0.698756	-1.305703	-0.852923	-0.416366	-1.178992
32	1.410676	-0.221908	0.430263	1.087092	0.519049	1.499099	-0.142807	0.751789	-0.155981	0.554714
33	0.729822	-0.382114	0.770769	0.541716	-0.364430	-1.335423	1.115416	-0.197250	-0.203328	0.905035
34	0.454081	2.236264	2.064129	1.359838	0.210309	0.549063	0.952049	-0.115602	1.462404	1.118523
35	-2.037742	-0.614283	-1.033550	0.712734	0.137753	-0.944862	-0.285099	0.029207	0.159743	0.502753
36	-0.423634	0.844009	0.930440	-0.713676	0.665297	0.425338	0.911576	2.088323	2.055950	2.737196
37	0.275054	-1.327218	0.937926	0.529270	0.019474	0.154348	-1.254957	-1.381813	-1.016920	-0.689112
38	0.678784	0.891623	0.735813	0.486542	-0.438309	-1.439919	1.040171	-0.282888	1.007549	0.896166
39	-2.177297	-1.496324	-1.302678	-1.884012	-0.059884	-0.165029	1.223194	-0.634794	0.586058	0.498097
40	1.317709	0.263855	0.644380	0.641377	1.198833	0.800289	0.963524	1.292595	0.889856	2.558963
41	-0.360545	-2.308517	-0.142154	-0.374743	0.201718	0.259701	0.125405	0.669034	0.270033	0.307270
42	0.397914	0.168727	-0.545522	-0.331231	-1.474276	0.020433	-2.483821	-1.815882	-2.028331	-1.468072
43	0.517643	1.402451	-0.462310	0.998274	0.991066	1.165810	-0.116847	0.200346	-0.457178	-0.655713
44	0.488934	-1.810850	-1.151557	-0.395598	-1.544641	-2.047521	-3.044358	-1.286096	-2.221906	-2.235575
45	-0.801914	-0.657940	-0.403835	-1.121607	-0.462530	-1.713872	-1.082307	-1.117057	-0.514794	-1.652189
46	-0.272578	0.580028	0.140751	-0.064458	-0.414525	-1.003852	-0.348743	-0.827068	0.610932	0.010463
47	-1.267911	0.874462	-1.111564	-2.430828	-0.430099	-1.120767	-1.535882	-1.068492	-1.524224	-1.600589
48	-0.234959	1.455010	-1.348409	0.030345	-0.717920	0.641098	1.231416	0.554724	0.997692	1.198641
49	0.966365	0.723608	-0.713150	0.463455	-0.735988	0.500388	0.130475	1.276281	1.401945	-0.484742
50	1.688756	1.470091	1.295033	0.238571	0.533746	1.362966	0.942656	1.237564	1.685727	1.075490

RESIDUALS AS T-STATISTICS - FULL CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 SUPDEC	4 SATBRF	5 ORDNFO	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PMPCON
51	0.651662	-0.150149	-0.308897	-0.454525	-1.869371	0.021857	0.665985	-0.178689	0.773941	-0.244300
52	0.806165	0.932292	0.819104	0.551519	0.720489	-0.287941	-0.257207	-0.276919	1.058830	0.861056
53	0.591491	-1.153555	-0.816949	0.160011	0.122918	1.381297	1.402568	0.957511	1.129904	-0.058243
54	0.667344	0.082090	-0.287073	-0.064903	0.051306	0.178112	0.926474	-1.611930	-0.284721	-1.039223
55	-0.652253	1.175587	0.326357	0.042359	-0.135628	-0.088961	0.384962	0.655121	0.657353	0.482170
56	-0.973724	0.341525	-0.511269	-0.168292	-0.894751	-0.388256	-0.763000	-0.615080	-0.652174	0.474813
57	-0.105255	-0.299577	1.548629	0.846909	0.320730	0.393754	0.582854	0.422257	0.307508	0.395368
58	0.281737	1.306610	-0.287785	0.913486	-0.956538	-0.859289	-0.124903	0.727520	-1.122815	-0.438495
59	0.603184	-1.522141	0.120862	1.554011	1.012307	1.101535	-0.100402	0.418420	-0.479868	0.870634
60	-0.726448	-0.759109	-0.341445	-0.970529	-0.192890	-0.876651	0.176277	0.195235	0.489335	-1.372516
61	0.673644	-0.117114	0.646311	0.394363	1.390385	0.768530	-0.165883	-0.206179	-0.102643	0.724023

62	-0.486228	-0.308373	-0.412606	0.657274	0.821752	0.877565	1.099635	1.062787	-0.165765	-0.207499
63	-2.760811	-0.988707	-1.387264	-2.759699	-1.526697	-1.060450	-1.140395	-0.759854	0.161173	-0.662224
64	-0.611296	-0.396884	1.450661	0.977666	-1.504868	-2.777390	-0.330434	-0.808530	-2.641129	-1.242887
65	1.297253	0.945549	0.479989	0.039573	0.900749	-0.545384	1.514173	1.290837	-0.200868	-0.686847
66	0.020275	-0.855865	-0.543464	-1.258242	-0.224683	-0.739508	-0.961592	-0.019822	-0.723065	-0.885300
67	0.522146	-0.409839	0.694765	-0.620494	0.846531	-0.243406	-0.216998	-0.167726	1.115724	-0.459117
68	0.456073	-0.407336	-0.736532	-0.733261	-0.424262	-0.337929	0.994568	1.049234	-0.235464	0.670752
69	0.274859	-0.005926	-0.382327	-0.502388	0.018231	-0.002254	-0.440760	-1.363858	0.459223	-0.062419
70	0.762085	0.324836	-0.811275	0.053931	0.434686	-0.358060	-0.347768	-0.260771	-0.340296	1.218242
71	0.668658	1.221088	-0.008654	0.748584	1.097276	1.052678	1.371763	1.466465	1.445862	1.078087
72	-0.276514	1.120157	0.737686	-0.051506	-1.763437	0.564400	0.924490	0.270823	0.353373	-0.176016
73	-0.124674	0.665739	1.007364	0.711906	0.230437	0.693554	0.831416	-0.541131	-1.149204	-1.615572
74	-0.747348	-0.809207	-0.900893	-0.543069	-0.757276	-0.295996	-0.028401	-0.182102	0.522456	-0.230238
75	0.962628	1.533063	0.556527	-0.294335	-0.470981	0.156228	0.384460	0.392586	-1.109094	-1.244812
76	0.412090	0.928766	-0.143482	-0.271089	0.207737	0.089645	0.545239	-0.403629	0.506329	-1.446414
77	0.224260	0.657639	0.464593	0.297962	0.612759	0.512869	-0.292422	-0.353771	-0.341797	0.723491
78	-0.039386	-0.501094	-0.946034	-1.056187	-0.903816	-0.679915	-0.617577	-1.008102	0.869038	-2.160036
79	-0.446350	-1.076015	1.216418	-0.387700	0.521289	-0.237418	-0.644219	-0.006828	-0.069979	-0.445503
80	-1.840346	-1.085549	-0.895777	-1.050980	0.061406	-2.352551	-2.280722	-1.627112	-2.049034	-0.706014
81	-2.000943	-0.206536	-1.612906	-0.824015	-0.817568	-2.394612	0.164901	0.354941	-0.781199	-0.691987
82	-0.695182	0.351465	0.158796	-0.016455	0.308142	-0.040515	-0.323887	-0.287770	0.470762	0.175812
83	0.692687	-0.444751	0.781070	0.571327	0.785391	-1.322127	-0.231413	-0.246284	-0.260202	-0.410473
84	-1.817473	-0.216168	0.880487	0.681985	-0.312556	-1.208579	-0.232967	-0.233950	-0.213343	0.822766
85	-1.582492	-1.981033	-0.719579	-0.856455	-2.145671	-0.070133	-1.091011	-1.827821	-2.009953	-0.398843
86	0.725224	-1.728808	-2.630109	-1.854787	-1.987392	-1.343089	-2.076076	-1.571109	-2.094815	-1.439254
87	1.065598	0.126357	-0.140576	1.128663	0.754699	0.747953	1.572094	1.033671	0.257384	0.701677
88	0.705795	1.379175	1.223680	0.857776	1.328618	1.177255	1.092925	-0.046436	0.547735	0.197526
89	0.417577	0.598561	0.536779	0.353362	0.567746	0.728937	1.489062	1.572939	0.619304	1.434649
90	-0.917767	0.277598	0.253915	0.853826	1.162727	1.209006	0.527955	0.543193	0.486986	1.292921
91	0.841284	-0.165044	0.196172	0.818564	-0.923053	-1.559083	-1.682088	-1.673207	-0.899379	0.207949
92	-0.324778	-0.296792	-0.183525	-0.032279	0.247050	0.809361	0.912416	0.506687	0.725541	0.148810
93	-1.290406	-0.042037	-1.038520	0.032226	-1.069840	-0.355598	-0.005113	1.143704	0.238356	0.085429
94	1.105681	0.459201	1.075873	1.742583	1.233422	-0.327096	0.912723	0.627254	0.845200	0.227613
95	2.034633	1.025431	0.433561	1.152708	0.202254	1.739538	0.006329	1.123414	1.405618	0.132013
96	0.670204	0.759240	-1.043736	-0.011916	-2.224004	-1.402598	0.167109	0.502865	-0.302779	-0.889775
97	-1.639517	-2.737394	-0.417642	-0.659754	-1.245991	0.181831	-0.425165	0.010205	-1.592128	-0.781990
98	-2.343730	-1.380114	-1.260424	-1.688560	-0.423725	0.295087	-1.182342	-1.528364	-0.885622	-1.056844
99	0.252652	-0.233446	-1.437720	-2.009548	-0.373354	-1.054917	-1.066187	0.301393	-0.972436	-0.460892
100	0.739615	0.254866	1.723832	0.366862	1.276160	1.265657	-0.199329	-0.064618	1.006569	1.198439

RESIDUALS AS T-STATISTICS - FULL CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 SUPDEC	4 SATERF	5 CRDNFO	6 MESLEN	7 QUALVY	8 AMTNYZ	9 SPKGRA	10 PPPCON
101	-0.030594	-0.116601	-0.548148	0.623742	0.870014	0.560636	0.889980	1.049631	0.898420	-0.260898
102	0.725842	0.631514	0.948055	0.859526	-0.182873	1.608871	2.378087	2.037947	0.932334	2.209272
103	0.281864	0.602152	1.888030	0.058546	0.492582	0.656906	0.154863	-0.010270	0.122020	-1.159595
104	-2.000843	-1.196165	0.108671	-1.163300	0.743147	-0.355218	-0.072526	-0.695103	0.491068	-0.615879
105	-0.371085	0.158107	-1.486287	-1.078638	-0.126141	-2.323890	-1.064154	-0.613820	-1.112026	0.542820
106	1.074891	1.596373	-0.430262	0.598080	1.181338	0.754258	1.471737	0.800416	0.213333	1.036100
107	-4.148516	-2.318843	-3.779037	-3.623440	-2.151643	-2.819704	-0.561795	-0.397000	-0.331806	0.192191
108	0.183729	0.650626	0.461066	0.226804	0.614623	0.521413	0.815627	0.923424	0.976600	0.648659
109	0.085057	-0.127568	-1.554431	0.073484	-2.122696	-2.010221	-2.799259	-0.704596	-3.196952	0.075691
110	-0.099333	0.717870	0.652957	-0.058492	-0.388357	-1.280858	-0.216047	1.303041	-0.257332	0.432922
111	-0.101628	-0.092637	-2.885685	-1.624372	-1.163665	-0.577011	0.501273	0.582082	1.046248	0.573380
112	0.400889	0.700013	1.060188	0.572573	0.727689	0.485317	0.319715	0.534296	0.551766	0.249721
113	0.796320	0.526820	0.589271	0.795518	0.250406	0.714661	0.951854	0.555556	0.646572	0.874135

114	0.267075	-0.561237	0.187820	0.345875	-0.063088	0.294992	-1.679147	-0.253140	0.457807	-0.566877
115	0.292210	1.390246	-0.005708	0.713747	0.745388	0.934723	1.075151	0.568601	0.679964	1.786269
116	-0.328603	0.505404	-0.312872	-0.374024	0.177260	-0.199782	0.791659	1.517520	1.081168	-0.963151
117	0.797050	1.185888	1.138086	0.060349	0.176362	-0.954891	-2.071680	-2.040151	-1.805303	-1.031500
118	-0.971662	-0.158754	0.674098	-0.245549	-0.575327	0.966610	-1.015717	-1.721684	-1.292733	-1.004728
119	-0.600914	-0.216511	-0.532743	-0.673601	-0.330240	-0.210779	-0.256507	-0.286970	-0.173801	-0.317484
120	-0.085321	0.357710	-0.297241	-0.291573	-0.174110	0.839439	1.173965	1.402824	1.164359	0.831865
121	-0.179525	-0.224510	0.421072	0.507419	0.596315	0.886411	0.255171	1.208406	0.163717	-0.579855
122	0.827663	1.841244	1.268732	0.782328	0.818659	-0.424563	-0.224551	-0.776431	-1.251124	0.385723
123	-0.273481	-1.279889	0.345328	-0.838762	-0.805551	-0.842211	0.186416	-0.515092	-0.217069	-1.132786
124	-1.560361	-1.409038	1.776205	-1.792401	-1.416945	-2.952988	-3.226005	-3.501491	-2.641873	-3.048892
125	-1.349809	-2.144211	-2.791291	-2.304702	-1.565412	-1.589286	-1.603369	-1.435818	-2.706499	-0.335669
126	0.176756	-1.849357	0.653866	0.640246	-0.139263	-0.096473	0.304370	0.702556	-1.236252	0.225352
127	-0.402682	1.473548	0.259118	-0.017950	0.069298	-0.116339	-0.531247	-0.391606	-1.148169	-0.855545
128	0.853798	-2.233197	0.292199	0.890098	0.386479	0.322776	-0.690216	-0.434066	0.519287	-0.476208
129	0.592795	-0.219273	-2.691547	0.706172	-0.127827	-0.280991	-0.928444	0.070878	-0.660210	-0.047726
130	0.601640	-1.851344	0.541168	0.621821	1.152572	1.039025	0.498252	0.313510	0.428153	0.683280
131	0.218146	-0.491341	-0.503432	0.786936	0.249888	0.426202	-0.593567	-0.240712	-1.142650	-0.964762
132	0.329850	0.749867	-0.281126	1.300014	0.303063	0.233015	-0.601175	-0.967681	-0.196983	-0.091227
133	-0.251526	-0.453931	0.824387	0.634868	0.287138	1.216856	1.098223	0.404150	0.948540	1.582388
134	1.983598	1.377091	0.358633	0.645286	0.968692	1.223427	1.877130	1.158586	0.955311	1.099176
135	-0.026032	0.866752	0.019165	-0.643003	0.433850	0.390381	-0.360070	-1.204682	0.542880	-0.034848
136	0.310247	-1.132115	-0.547271	-0.783937	-0.408531	-1.002084	0.443833	0.494459	0.682424	0.500170
137	0.632030	0.867889	0.750475	0.431681	0.704573	0.723303	0.896932	0.910508	1.040361	0.866377
138	1.505772	-0.143256	0.473850	1.546651	0.530377	1.579900	0.700826	0.972449	0.740134	0.816717
139	-0.359035	1.078697	1.237299	-0.187745	0.042893	0.721609	-0.421728	-0.276038	0.650753	-1.270440
140	0.188594	-0.564540	0.112305	0.240516	0.966546	-0.095627	0.582988	1.025552	0.805779	1.011170
141	-0.305093	0.029653	-0.328776	0.123167	0.652140	0.937001	0.828904	0.151006	0.994923	0.918719
142	0.803464	0.462826	0.218447	0.543021	0.223270	-0.931431	-1.344614	-0.548045	-1.158391	-0.306125

RESIDUALS AS T-STATISTICS - FULL CELLS X VARIABLES

	11 MINPRE	12 MINTA	13 EZCOMP	14 USENFO	15 RESPND	16 CLRPIC	17 UNNFO
1	1.656604	1.495827	1.296185	0.353152	0.914596	1.195722	0.329502
2	-4.113509	-3.479966	-4.098447	-4.208284	-4.130313	-4.279952	-3.236852
3	-0.992685	-0.599768	0.082451	-0.296648	0.608153	0.801113	0.488247
4	1.277692	1.357327	0.483177	1.076020	1.171463	0.448216	-1.450857
5	-1.875982	-1.510542	-1.775082	-2.016425	-1.902541	-1.929772	-0.115938
6	-1.890368	-0.743827	-1.666224	-1.605592	-1.983617	-1.480097	-0.596458
7	-0.507423	-0.731627	0.913777	0.634315	0.674933	0.762100	0.929296
8	0.491265	0.662620	-0.501076	0.391667	0.453918	0.527353	0.852660
9	-2.168582	-0.169351	-2.064623	0.210238	-0.486588	-0.504701	0.750922
10	0.732264	-0.238097	-1.539170	0.645212	0.734161	0.807498	-0.053655
11	-0.684546	-0.425181	-0.477077	-0.809400	-0.682041	-0.697150	-0.129862
12	2.175509	0.067124	2.744309	2.040112	1.581493	2.375954	0.249266
13	0.527593	0.777589	1.386406	1.058567	1.099263	0.576663	1.639651
14	-0.464246	0.512055	-0.226465	0.632183	1.661217	0.847102	0.273302
15	0.500554	0.276749	1.133147	1.450282	0.578326	1.188582	-1.337990
16	-0.470468	-0.280597	-0.418038	-0.570186	-0.504923	-0.470230	-0.041314
17	0.792683	0.865121	0.914579	0.774870	0.792989	0.927463	1.019066
18	0.583778	0.681586	0.738010	0.532484	0.512262	0.693046	-0.102177
19	0.042759	0.089546	1.127328	1.060942	1.180539	1.325756	0.182571
20	0.330352	0.664619	1.467638	0.214257	1.346302	0.748112	0.162464
21	-0.624747	-2.073961	-0.862712	-0.775312	-2.833455	-2.966367	-1.208276
22	1.297147	0.276484	0.211360	0.618375	0.629252	0.734148	0.428738
23	0.070566	0.587552	0.598107	0.324127	0.761819	0.957877	-0.112745

24	-0.198001	0.363606	-0.234959	-0.382295	0.597063	-0.143723	1.040081
25	-0.008369	0.351566	0.869011	1.436615	1.616597	0.574635	0.347427
26	-1.089945	-0.534266	-0.581280	-1.158455	-0.585767	-0.599938	-0.288351
27	0.897932	0.504301	-2.723052	-1.953013	-5.098078	0.926420	-1.249401
28	0.519365	-0.071136	0.737417	1.052527	1.250300	0.679994	1.241415
29	0.193844	0.906808	0.638074	0.794664	-0.592659	-0.177696	1.012577
30	0.221545	-0.644566	0.385426	0.464977	0.433603	0.232252	0.001125
31	0.097795	0.386635	-0.220805	-0.185056	-0.211299	-0.355022	-1.011641
32	-1.902290	-1.542542	-0.250484	0.382523	0.521071	1.549238	0.905595
33	0.872817	0.654988	-0.353276	0.633597	0.744389	0.855187	-1.010349
34	1.040490	0.139257	-0.230396	1.293031	0.349761	0.772189	-0.620220
35	-0.753228	-0.669911	0.132406	-2.448943	-1.122440	-0.702789	-0.316548
36	1.045238	0.166199	2.074772	1.052750	0.985532	1.063131	0.998008
37	0.314084	0.455150	-0.776721	0.791695	0.654904	1.280261	-0.395161
38	0.751314	0.770156	0.830139	0.535206	0.635790	0.794179	1.086731
39	-1.999971	-0.546042	0.811121	-0.945462	-1.210928	-0.176408	-0.901169
40	1.158244	0.881394	1.420253	0.045770	0.471769	-0.113192	0.138405
41	-0.811097	0.255587	0.380915	-0.863646	-0.254764	-0.812205	-0.244855
42	0.496260	0.279160	-0.954619	0.929938	0.623939	-0.087561	-0.044569
43	-0.982376	-0.866565	0.319500	-0.872405	0.133549	0.766970	-0.709019
44	-1.087597	-1.866505	-0.946412	-0.900388	-0.284116	-1.831317	-1.268691
45	0.783381	1.249806	-2.229716	-0.720027	-0.967705	-1.039052	-0.923932
46	0.382522	0.691212	-0.141735	-0.052919	0.023647	-0.241677	0.698771
47	-1.863426	-1.733183	-1.824874	-1.404154	-0.911165	-1.840838	-0.705331
48	-1.028179	-0.645203	1.212375	1.571200	0.589829	1.485783	0.374748
49	0.026622	0.405135	0.723973	-0.187569	-0.330453	-0.501904	0.691185
50	1.502323	1.323433	0.864937	-0.688737	0.492370	0.468973	1.593759

RESIDUALS AS T-STATISTICS - FULL CELLS X VARIABLES

	11 MINPRE	12 MININ	13 EZCOMP	14 USEFNC	15 RESFND	16 CLRPIC	17 UNNFO
51	-0.119088	0.040463	-0.198543	-0.303241	-0.210343	-0.141777	0.181175
52	-0.447321	0.806901	0.843091	0.645854	0.711361	0.832234	1.038482
53	1.479982	0.411495	-0.087079	0.316725	-0.673069	-0.263403	1.599318
54	-0.372804	0.866862	-0.143122	0.127142	0.251752	-0.691092	-0.723306
55	0.485553	0.343923	0.384024	-0.001034	0.311461	-0.440338	0.903855
56	-1.445638	-0.940559	0.236317	-1.464474	-0.193522	-0.097891	-0.716935
57	1.123360	0.050300	-0.007061	0.281218	-0.115697	0.979676	-0.419959
58	0.170792	-0.202758	-0.904531	0.283230	-0.071870	-1.093296	0.315527
59	1.087828	1.415162	0.163566	-0.204753	0.491534	0.936547	0.966148
60	-0.442771	-0.008573	-0.924655	-0.696823	-0.443007	-0.866164	0.503189
61	-0.142275	0.817486	-0.113282	1.417864	0.677314	0.710362	-1.328927
62	-0.309518	-0.155040	-0.256717	-0.461270	0.854417	-0.372218	0.036958
63	-1.687764	-0.285270	-0.870923	-1.970256	-1.677196	-2.932224	0.163075
64	-0.195131	-1.775478	-1.880133	-0.076405	0.206489	1.637967	-2.503009
65	0.252437	0.505787	1.142634	1.156540	0.097825	0.479350	0.569544
66	-0.046552	-0.393493	-1.766541	-1.152555	-1.718856	-0.695145	-0.263325
67	-0.517533	0.835702	0.811432	-0.615620	-0.607504	-0.511264	0.931012
68	-0.671213	-0.360008	0.729738	0.486805	0.469437	-0.618204	-0.174484
69	-0.391860	-0.009056	-0.093625	-0.512933	-2.190156	-0.308693	0.385545
70	1.023247	0.415348	0.307502	0.860649	-3.320452	0.239314	0.668267
71	0.806525	1.015110	1.070034	0.706331	0.750255	0.989501	1.324274
72	0.748851	0.611492	-0.114992	0.580332	0.030273	0.813088	0.269436
73	0.935904	-0.310310	-2.341186	0.091876	0.789326	0.980095	-1.462934
74	-0.388136	-0.738033	-0.853330	-0.554636	-0.461398	0.284519	-0.125647
75	0.527014	0.203333	-0.596252	1.047739	0.475876	-0.139791	0.492903

76	0.703590	0.155769	0.141735	-2.526638	-0.207824	-0.146145	0.540210
77	0.342808	0.531887	-0.600985	0.250009	0.332842	0.425042	-0.202224
78	-0.606499	-0.748601	-0.648531	-3.523354	-1.147057	-1.141857	-0.969316
79	0.136404	0.806556	-0.628661	-0.411257	-0.087465	-0.090719	0.443419
80	-1.504254	-0.274348	-0.600637	-1.833473	-0.336816	-0.341961	0.573018
81	-1.534536	-1.194231	-1.566162	-1.156738	-1.290452	-0.477470	-0.222360
82	0.408841	0.582258	0.264328	0.152581	0.248018	0.495915	0.693255
83	0.831186	0.868023	-1.679981	-0.560437	0.719054	-1.647916	-1.076064
84	-0.322264	-0.146535	0.896146	0.787478	0.822138	-1.520120	1.033796
85	-0.495623	-0.453713	-0.930537	-0.586720	-0.940268	-1.359402	-0.441925
86	-2.532843	-1.955635	-2.379628	-1.960329	-1.885252	-2.548012	-0.804046
87	0.365280	0.668542	1.374748	0.379890	-0.315947	-0.115976	0.434717
88	0.812330	0.578318	0.612434	-1.674357	0.789064	1.097751	0.700164
89	0.663766	0.720578	0.542813	0.426878	0.569198	0.768640	0.899863
90	1.227218	0.454687	1.173957	0.945455	1.106839	0.435426	0.792266
91	0.669616	0.054144	-0.150013	0.149434	1.007124	-0.510745	-1.063478
92	0.748725	-0.200812	1.272752	0.842490	0.011526	0.318871	0.374289
93	-0.578915	-1.557110	-0.495918	-0.363603	-0.704351	-1.581744	-0.740226
94	0.013549	-0.467557	-0.108660	1.527360	-0.344064	1.282429	1.845933
95	0.379928	1.267242	0.334803	0.684538	0.155720	0.802560	0.685377
96	0.141426	-0.937526	-0.711848	-0.607053	0.485101	-0.503374	-0.463304
97	0.329429	0.168716	0.482130	-1.538978	-1.344818	-3.550558	-2.927511
98	-1.409892	-1.445389	-1.112657	-1.423992	-1.094037	-1.293437	-1.032316
99	-0.611685	0.477784	-0.112146	-0.445031	-0.315073	-0.750436	0.552869
100	1.387555	2.135543	0.490745	1.359614	1.950438	1.588451	-0.419562

RESIDUALS AS T-STATISTICS - FULL CELLS X VARIABLES

	11 MINPRE	12 MINTA	13 EZCCMP	14 USFNFO	15 RESPND	16 CLRPIC	17 UNNFO
101	0.118857	-0.871382	-0.101036	0.159668	-0.574609	-0.970633	-0.476954
102	-0.835249	0.648351	0.618178	0.663921	0.327413	0.676650	-1.041545
103	-0.348355	-0.887556	-0.746103	0.086779	-0.724182	0.919880	1.008185
104	-1.383283	-1.146857	0.100669	-0.333362	-0.097245	0.463907	0.074483
105	-0.149838	-0.833816	-0.593868	-0.955587	-0.117523	-1.705482	0.079667
106	1.724821	1.431646	2.136833	1.458468	1.024586	-0.079333	0.132774
107	0.843095	1.093553	-2.359081	-0.940308	-0.114651	0.023713	0.589229
108	0.386137	-0.455567	0.633150	0.305237	0.295587	0.416893	-0.182464
109	-0.934688	0.227142	-1.027554	-0.337407	-1.003455	-0.821182	-1.390413
110	0.302293	-0.043054	0.424384	0.188041	0.543502	0.086796	-0.389285
111	-1.600214	-1.407319	0.540705	0.401173	-0.628383	-1.555134	-1.118705
112	0.842855	0.621402	0.078078	0.026859	0.715471	0.932302	0.284110
113	0.955516	0.760274	0.268699	0.295346	0.320532	0.550384	0.315307
114	-0.074802	-0.707263	-0.711145	-0.193415	0.477454	0.717117	-0.365044
115	-0.095085	0.907672	0.285333	0.423657	0.442658	0.619126	2.698772
116	0.317699	0.477374	-0.230067	-0.857714	0.103543	-0.596064	-0.671396
117	-1.576368	-0.854045	-1.531789	-1.569401	-1.555226	-1.536804	-0.892025
118	0.170761	-0.269212	-0.369864	0.069174	-0.204073	-0.344610	0.158287
119	-0.325262	-0.121866	-0.240955	-0.456408	-0.387874	-0.368294	0.026966
120	0.887898	0.658931	0.790682	0.285080	0.009592	0.070820	0.959672
121	0.127809	0.135839	1.516840	0.222285	0.455566	-0.267319	1.590617
122	0.313689	-0.322055	-0.235136	0.896263	0.974030	1.115277	-0.766715
123	-0.905050	-0.912274	-0.675203	-0.718002	-0.484141	-0.748539	0.235130
124	-1.211334	-0.921576	-2.292579	-1.653752	-1.637102	-1.329099	-2.495690
125	-1.999709	-1.503134	-1.850656	-2.014977	-2.157840	-2.271541	-1.516495
126	0.207878	-0.986222	-0.150180	0.395140	-0.284251	1.031562	-1.675269
127	-0.177760	0.542274	0.371054	0.636309	0.410190	0.219815	-0.638802

128	0.095886	0.361023	-0.519925	0.109892	0.934863	0.205243	0.697142
129	0.805195	1.055171	-1.664787	0.064701	-0.622318	0.949393	-0.185464
130	0.624718	0.552218	0.663325	1.257011	1.224189	-1.521350	-1.150070
131	-0.559110	0.070924	0.219263	0.425868	-0.054259	-0.283061	0.351985
132	0.235213	0.540265	-0.941979	0.308559	0.907369	0.959763	-0.174973
133	0.743680	0.635781	1.490724	1.406212	0.309844	0.762428	0.937081
134	1.050353	1.311074	0.583704	0.685097	1.197634	1.459625	0.569288
135	0.175255	-0.172491	0.683612	-0.313272	0.086400	1.078779	-0.826253
136	-0.398947	-0.130707	-0.290173	-0.527523	-0.431053	-0.405281	0.057929
137	0.720408	0.804460	0.859910	0.600802	0.673524	0.752817	1.011744
138	0.661451	-0.500031	1.258799	1.045694	0.536819	1.840241	1.288017
139	-0.233043	0.590924	0.110770	0.246407	-0.119380	-0.619693	1.035101
140	0.514439	0.860217	0.949165	0.161054	0.492012	0.659692	0.375456
141	-0.057429	-1.255816	0.777023	-0.277719	0.304106	-0.139970	0.695001
142	-0.435682	0.460517	0.409418	0.787567	0.971530	1.066429	-0.430719

D.F.= 2578.

RESIDUALS ESTIMATED AFTER FITTING MODEL OF RANK 9

ANALYSIS OF VARIANCE

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PAGE 7

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17 DEPENDENT VARIABLE(S)

1 AMTNFC
2 ACCNFO
3 SUPDEC
4 SATBRF
5 ORDNFO
6 MESLEN
7 QUALVY
8 AMTNYZ
9 SPKGRA
10 FMPCON
11 MINPRE
12 MININ
13 EZCOMP
14 USFNFO
15 RESPND
16 CLEFIC
17 UNNFO

NUMBER OF ALTERNATE BASIS ORDERS= 7

PRINCIPAL COMPONENTS OF CORRELATION MATRIX WILL BE PRINTED

DISCRIMINANT ANALYSIS WILL BE PERFORMED FOR EACH BETWEEN CELL HYPOTHESIS

PRINCIPAL COMPONENTS -- VARIABLES X COMPONENTS (ROWS X COLS)

1	2	3	4	5	6	7	8	9	10

1 AMTNFO	-0.641386	-0.376647	-0.266477	-0.103557	-0.079989	0.042954	0.126255	-0.073958	-0.055587	-0.056981
2 ACCNFO	-0.647404	-0.066655	-0.222596	0.070408	0.087070	-0.058545	-0.067046	0.003657	-0.010166	-0.009852
3 SUPDEC	-0.689828	-0.365755	-0.131365	-0.065165	0.230136	0.302530	0.047480	-0.031363	0.001116	-0.002821
4 SATBRF	-0.764694	-0.261818	-0.148905	-0.027182	-0.300908	-0.374853	-0.213111	-0.091608	0.112646	0.136845
5 ORDNFO	-0.709998	0.062214	-0.256150	-0.100607	-0.311100	-0.029411	0.117676	0.120088	-0.030907	-0.033315
6 MESLEN	-0.684088	0.057590	-0.265907	-0.209523	0.242640	0.072887	-0.119717	-0.110586	0.003235	0.017223
7 QUALVY	-0.694774	0.490093	-0.031458	0.124773	0.133963	0.083615	-0.088020	-0.035894	0.011064	-0.032392
8 AMTNYZ	-0.673812	0.509791	0.011591	0.144078	-0.026748	-0.074269	-0.142345	-0.043716	0.030993	0.072381
9 SPKGRA	-0.657825	0.525491	-0.045911	0.060011	0.012127	-0.088098	0.352153	0.155427	-0.065928	-0.079625
10 PMPCON	-0.629141	0.216116	0.246036	-0.585690	0.018608	-0.027712	0.013606	0.031835	0.028948	0.028442
11 MINPRF	-0.743658	-0.257509	0.391141	-0.017062	-0.081129	-0.046745	-0.127702	0.026413	-0.293751	-0.309608
12 MININ	-0.631679	-0.172142	0.568992	0.036763	0.032374	0.014899	0.101805	0.006078	0.193952	0.206467
13 EZCOMP	-0.756859	0.199525	0.109059	0.155400	-0.228067	0.234820	-0.171769	-0.258682	-0.048430	-0.018029
14 USENFO	-0.797969	-0.173366	-0.031922	0.124490	0.121317	0.155871	0.005383	0.348051	0.291807	0.255645
15 RESPND	-0.785358	-0.214372	0.020542	0.184774	0.072015	-0.055847	0.004031	0.174872	-0.258531	-0.225789
16 CLRPTC	-0.768186	-0.206110	0.064661	0.177057	0.082445	-0.142767	0.217564	-0.228720	0.097176	0.068943
17 UNNFO	-0.541708	0.181177	-0.000793	-0.109435	0.041010	0.006351	-0.011235	-0.014401	-0.000432	-0.010794

	11	12	13	14	15	16	17
1 AMTNFO	0.003526	0.000478	0.012951	0.013286	0.015919	0.003564	0.007907
2 ACCNFO	-0.018305	0.002754	-0.021306	-0.028744	-0.029216	-0.018783	-0.017955
3 SUPDEC	-0.012575	0.046554	0.063672	0.055569	0.066638	0.042609	0.054139
4 SATBRF	0.144273	-0.111273	-0.005612	0.051164	0.038368	0.035762	0.008392
5 ORDNFO	-0.060490	0.035731	-0.036307	-0.093327	-0.095544	-0.093402	-0.098386
6 MESLEN	0.016203	0.053514	0.067513	0.026334	0.028969	0.003824	0.009608
7 QUALVY	0.117011	-0.366624	-0.232445	0.069354	0.072303	0.213701	0.178661
8 AMTNYZ	-0.103671	0.320706	0.206138	-0.062138	-0.045242	-0.169113	-0.133962
9 SPKGRA	-0.042138	0.026702	-0.000558	-0.018540	-0.015106	-0.017063	-0.010446
10 PMPCON	0.042342	-0.014785	0.030351	0.049828	0.051294	0.044813	0.047444
11 MINPRF	-0.376111	0.084675	-0.272748	-0.349437	-0.344387	-0.258189	-0.240692
12 MININ	0.257167	-0.058065	0.177382	0.214163	0.207510	0.140621	0.116916
13 EZCOMP	0.023903	0.025289	0.031066	-0.021989	-0.026016	-0.046500	-0.053199
14 USENFO	0.018084	-0.018875	-0.002051	0.047405	0.046470	0.065672	0.064020
15 RESPND	0.116182	0.000385	0.128633	0.107678	0.112909	0.059634	0.067762
16 CLRPTC	-0.088953	0.007042	-0.077637	-0.057878	-0.056782	-0.011956	-0.005492
17 UNNFO	-0.016141	-0.042109	-0.042290	0.003685	0.004079	0.024991	0.026517

VECTOR	EIGENVALUE	PER CENT OF VARIATION
1	8.290469	55.8941
2	1.465247	9.8787
3	0.854335	5.7559
4	0.576942	3.8857
5	0.420328	2.8338
6	0.365911	2.4939
7	0.352177	2.3744
8	0.341770	2.3042
9	0.310803	2.0954
10	0.296938	2.0015
11	0.283414	1.9108
12	0.270818	1.8258
13	0.239217	1.6128
14	0.216905	1.4624

15	0.207555	1.4020
16	0.186000	1.2540
17	0.149240	1.0062

COMPUTED FROM CORRELATION MATRIX

HYPOTHESIS 1 1 DEGREE(S) OF FREEDOM

00.00.00.00.00.00.00.00.

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 5893.5156

D.F.= 17. AND 2562.0000 P LESS THAN 0.0001

	VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN
1	AMTAFC	33245.8740	60225.6055	0.0001	60225.5898	0.0001
2	ACCNFC	28555.8659	44832.6719	0.0001	514.2068	0.0001
3	SUPDFC	30659.7743	54015.8242	0.0001	273.3879	0.0001
4	SATPRF	32490.2296	46748.9375	0.0001	29.7556	0.0001
5	ORDNFC	28542.5779	37179.5586	0.0001	52.5653	0.0001
6	MFSLFN	28655.6743	33726.0078	0.0001	26.5961	0.0001
7	CUBIVY	26847.9150	42288.4766	0.0001	167.9142	0.0001
8	AMTNYZ	26386.0240	43359.9414	0.0001	74.5749	0.0001
9	SPKGRA	25591.4959	43983.0156	0.0001	79.1421	0.0001
10	PMPCON	28099.2176	42109.4062	0.0001	61.8541	0.0001
11	MINPRF	31652.2617	45858.0742	0.0001	14.5262	0.0002
12	MININ	28264.2447	32843.7148	0.0001	7.2128	0.0073
13	FZCCMP	28629.0050	43602.3398	0.0001	1.7339	0.1861
14	USENFC	32348.6293	47205.4844	0.0001	2.0236	0.1548
15	RESPNC	31939.7371	45326.8320	0.0001	0.5299	0.4670
16	CLRPIC	31310.3581	50163.6367	0.0001	18.8872	0.0001
17	UNNFC	24763.8253	26867.8506	0.0001	26.2617	0.0001

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 2578.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 1

	VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN
1	AMTNFO	7.1235	12.9044	0.0004	12.9044	0.0004
2	ACCNFO	2.2147	3.4770	0.0620	0.0624	0.8029
3	SUPDEC	3.1257	5.5069	0.0189	0.1680	0.6825
4	SATBRF	6.9794	10.0424	0.0016	1.6347	0.1998
5	ORDNFO	3.6847	4.7998	0.0284	0.1047	0.7463
6	MESLEN	5.3192	6.2604	0.0124	0.4313	0.5122
7	QUALVY	7.3094	11.5132	0.0007	4.3584	0.0367
8	AMTNYZ	6.4311	10.5681	0.0012	0.7630	0.3824
9	SPKGRA	2.6962	4.5626	0.0326	0.3859	0.5363
10	PMPCON	4.9433	7.4080	0.0065	0.4740	0.4933
11	MINPRE	7.8168	11.3251	0.0008	1.0652	0.2999
12	MININ	5.1779	6.0168	0.0142	0.0001	0.9913
13	FZCOMP	4.3537	6.6916	0.0097	0.0267	0.8708
14	USENFO	3.4928	5.0970	0.0240	1.1228	0.2891
15	RESPND	4.9217	6.9845	0.0083	0.0026	0.9599
16	CLRPIC	2.3168	3.7118	0.0538	0.9632	0.3295
17	UNKFO	3.3583	3.6436	0.0559	0.2137	0.6445

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 2578.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 2

VARIANCE OF CANONICAL VARIATE 1 = 0.0096 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.0095
M= 7.5 N= 1280.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

	VARIABLE	RAW COEFFICIENT	STANDARDIZED
1	AMTNFO	0.741618	0.5510
2	ACCNFO	-0.183659	-0.1466
3	SUPDEC	-0.095367	-0.0718
4	SATBRF	0.290212	0.2419
5	ORDNFO	-0.130152	-0.1140
6	MESLEN	0.080324	0.0740
7	QUALVY	0.496134	0.3953
8	AMTNYZ	0.351926	0.2745
9	SPKGRA	-0.251514	-0.1933
10	PMPCON	0.169072	0.1381
11	MINPRE	0.431607	0.3586
12	MININ	0.027411	0.0254
13	FZCOMP	0.048640	0.0394
14	USENFO	-0.358274	-0.2966
15	RESPND	0.103831	0.0872

VARIANCE OF CANONICAL VARIATE 1 = 39.1072 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.9751
M= 7.5 N= 1280.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

VARIABLE	RAW COEFFICIENT	STANDARDIZED
1 AMTNFO	-0.530110	-0.3939
2 ACCNFO	-0.152973	-0.1221
3 SUPDEC	-0.312478	-0.2354
4 SATBRF	0.061287	0.0511
5 ORDNFO	0.014801	0.0130
6 MESLEN	0.017860	0.0165
7 QUALVY	-0.056825	-0.0453
8 AMTNYZ	-0.148131	-0.1156
9 SPKGRA	-0.262097	-0.2015
10 FMPCON	-0.190237	-0.1554
11 MINPRE	-0.067326	-0.0559
12 MININ	-0.056354	-0.0523
13 FZCOMP	-0.014356	-0.0116
14 USFNFO	0.085304	0.0739
15 RESPND	0.036535	0.0310
16 CLRPIC	-0.160137	-0.1265
17 UNNFO	-0.125800	-0.1208

HOTELLING'S TRACE CRITERION= 39.1072

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 5465.4492 WITH 17. DEGREES OF FREEDOM P LESS THAN 0.0001

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

	1
1	-6.148548

HYPOTHESIS 2 1 DEGREE(S) OF FREEDOM

D1.0.0.0.0.0.0. L/RATING

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 1.4464

D.F.= 17. AND 2562.0000 P LESS THAN 0.1048

16 CLRPIC	-0.394085	-0.3113
17 UNNFO	0.115373	0.1108

HOTELLING'S TRACE CRITERION= 0.0096

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 24.5974 WITH 17. DEGREES OF FREEDOM P LESS THAN 0.1041

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

	1 L/RATING
1	-0.147943

HYPOTHESIS 3 1 DEGREE(S) OF FREEDOM

0.01.C.0.C.0.C.0. ENGINES

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 2.3312

D.F.= 17. AND 2562.0000 P LESS THAN 0.0016

	VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN
1	AMTNFO	6.5078	11.7890	0.0007	11.7890	0.0007
2	ACCNFO	0.1146	0.1799	0.6724	1.6496	0.1984
3	SUPDFC	2.8602	5.0390	0.0248	0.7222	0.3959
4	SATBRF	10.3640	14.9124	0.0002	7.1040	0.0077
5	ORDNFO	3.4048	4.4351	0.0350	0.1419	0.7066
6	MFSLFN	8.6022	10.1243	0.0015	2.2709	0.1313
7	QUALVY	7.6710	12.0827	0.0006	4.9822	0.0256
8	AMTNYZ	2.9744	4.8878	0.0270	0.4477	0.5037
9	SPKGRA	0.7515	1.2717	0.2574	2.7804	0.0952
10	PMFCON	1.1799	1.7682	0.1825	0.3981	0.5289
11	MTNPRF	6.8364	9.9046	0.0017	0.8384	0.3609
12	MTNTN	4.2922	4.9877	0.0255	0.0295	0.8634
13	FZCCMP	0.6503	0.9904	0.3230	2.8592	0.0901
14	USENFO	4.1484	6.0537	0.0139	0.0291	0.8645
15	RESPND	6.1775	8.7667	0.0031	0.5177	0.4734

16 CLRPIC	7.8021	12.5000	0.0005	2.4764	0.1147
17 UNNFO	0.1788	0.1940	0.6617	0.6670	0.4143

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 2578.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 3

VARIANCE OF CANONICAL VARIATE 1 = 0.0155 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.0153
M= 7.5 N= 1280.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

VARIABLE	RAW COEFFICIENT	STANDARDIZED
1 AMTNFO	-0.443289	-0.3294
2 ACCNFO	0.501652	0.4004
3 SUPDEC	0.258667	0.1949
4 SATBRF	-0.535071	-0.4461
5 ORDNFO	0.080020	0.0701
6 MESLEN	-0.266679	-0.2458
7 QUALVY	-0.861806	-0.6867
8 AMTNYZ	-0.026301	-0.0205
9 SPKGRA	0.353275	0.2716
10 PMPCON	0.139667	0.1141
11 MINPRE	-0.212065	-0.1762
12 MININ	-0.043065	-0.0400
13 FZCOMP	0.524765	0.4252
14 USFNFO	0.167071	0.1383
15 RESPND	-0.106740	-0.0896
16 CLRPIC	-0.495479	-0.3546
17 UNNFO	0.160885	0.1545

HOTELLING'S TRACE CRITERION= 0.0155

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 39.5999 WITH 17. DEGREES OF FREEDOM P LESS THAN 0.0015

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

	1
ENGINES	

1 0.142145

HYPOTHESIS 4 1 DEGREE(S) OF FREEDOM

0.0.01.0.0.0.0.0. TOTALFLY

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 1.2025

D.F.= 17. AND 2562.0000 P LESS THAN 0.2517

	VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN
1	AMTNFD	3.9962	7.2392	0.0072	7.2392	0.0072
2	ACCNFD	0.6758	1.0610	0.3009	0.0503	0.8227
3	SUPDFC	4.0341	7.1071	0.0077	2.4302	0.1188
4	SATBRF	2.9504	4.2452	0.0392	0.0188	0.8911
5	ORDNFD	0.2248	0.2928	0.5910	1.0847	0.2969
6	MESLFA	0.3934	0.4631	0.4991	0.2293	0.6327
7	QUALVY	0.8132	1.2809	0.2560	4.8290	0.0279
8	AMTNY7	0.1293	0.2124	0.6460	0.0012	0.9724
9	SPKGRA	0.0001	0.0001	0.9904	0.3297	0.5676
10	PMPCON	0.8193	1.2278	0.2656	0.6385	0.4268
11	MINPRF	0.1630	0.2362	0.6289	1.7831	0.1806
12	MININ	0.0911	0.1058	0.7462	0.0076	0.9308
13	FZCOMP	0.3764	0.5733	0.4504	0.3296	0.5677
14	USENFD	3.1809	4.6418	0.0311	1.3866	0.2387
15	RESPND	1.5953	2.2640	0.1316	0.0015	0.9690
16	CLRPIC	0.9532	1.5272	0.2151	0.0832	0.7743
17	UNAFD	0.0088	0.0096	0.9224	0.1542	0.6949

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 2578.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 4

VARIANCE OF CANONICAL VARIATE 1 = 0.0080 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.0080
M= 7.5 N= 1280.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

VARIABLE	RAW COEFFICIENT	STANDARDIZED
1 AMTNFO	0.573751	0.4263
2 ACCNFO	-0.050701	-0.0405
3 SUPDEC	0.655209	0.4536
4 SATBRF	0.239683	0.1998
5 ORDNFO	-0.122439	-0.1073
6 MESLEN	-0.027897	-0.0257
7 QUALVY	-0.856144	-0.6822
8 AMTNYZ	-0.122525	-0.0956
9 SPKGRA	0.126539	0.0573
10 PRPCCN	0.318830	0.2604
11 MINPRE	-0.556213	-0.4621
12 MININ	-0.033450	-0.0310
13 EZCOMP	0.156124	0.1265
14 USFNFO	0.509154	0.4215
15 RESPND	0.033268	0.0279
16 CLRPIC	-0.117751	-0.0930
17 UNNFO	-0.107208	-0.1029

HOTELLING'S TRACE CRITERION= 0.0080

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 20.5471 WITH 17. DEGREES OF FREEDOM P LESS THAN 0.2473

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

	1 TOTALFLY
1	0.117543

HYPOTHESIS 5 1 DEGREE(S) OF FREEDOM

0.0.0.01.0.0.0. ANUALFLY

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 1.0777

D.F.= 17. AND 2562.0000 P LESS THAN 0.3677

	VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN
1	AMTNFO	0.2188	0.3964	0.5310	0.3964	0.5310
2	ACCNFO	0.0736	0.1155	0.7353	0.0034	0.9534
3	SUPDEC	0.2348	0.4137	0.5227	0.1268	0.7215
4	SATBEF	0.6713	0.9659	0.3289	0.4762	0.4929
5	ORDNFO	0.3684	0.4798	0.4903	0.0565	0.8123
6	MESLEN	1.3399	1.5770	0.2081	0.7864	0.3773
7	QUALVY	0.4611	0.7262	0.3974	3.1577	0.0754
8	AMTNYZ	0.3515	0.5777	0.4496	2.6371	0.1043
9	SPKGRA	0.1234	0.2089	0.6492	0.8730	0.3531
10	PMPCON	0.8177	1.2254	0.2660	2.5248	0.1116
11	MINPRE	0.8726	1.2642	0.2586	1.0583	0.3014
12	MININ	0.3311	0.3847	0.5365	0.0034	0.9532
13	FZCOMP	0.2929	0.4462	0.5059	1.4299	0.2293
14	USENFO	0.7345	1.0719	0.2984	0.7408	0.3872
15	RESPND	0.1395	0.0560	0.8138	0.5674	0.4516
16	CLPPIC	1.7798	2.8516	0.0907	3.4439	0.0630
17	UNNFO	0.2865	0.3109	0.5787	0.0998	0.7526

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 2578.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 5

VARIANCE OF CANONICAL VARIATE 1 = 0.0072 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.0071
M= 7.5 N= 1280.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

	VARIABLE	RAW COEFFICIENT	STANDARDIZED
1	AMTNFO	0.121534	0.0903
2	ACCNFO	-0.003116	-0.0025
3	SUPDEC	0.075742	0.0571
4	SATBEF	-0.121736	-0.1015
5	ORDNFO	-0.102687	-0.0900
6	MESLEN	-0.378647	-0.3490
7	QUALVY	0.826135	0.6583
8	AMTNYZ	-0.948333	-0.7398
9	SPKGRA	0.230026	0.1768
10	PMPCON	0.595496	0.4864
11	MINPRE	-0.402030	-0.3340
12	MININ	0.047476	0.0440
13	FZCOMP	0.636485	0.5157
14	USENFO	-0.351891	-0.2913
15	RESPND	0.562744	0.4724
16	CLPPIC	-0.835876	-0.6635
17	UNNFO	-0.091169	-0.0875

HOTELLING'S TRACE CRITERION= 0.0072

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 18.3801 WITH 17. DEGREES OF FREEDOM P LESS THAN 0.3653

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

1
ANUALFLY

1 8.411313D-02

HYPOTHESIS 6 1 DEGREE(S) OF FREEDOM

0.0.0.0.01.0.0.0. GADO

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 1.3165

D.F.= 17. AND 2562.0000 P LESS THAN 0.1705

	VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN
1	AMTNFO	0.5040	0.9131	0.3413	0.9131	0.3413
2	ACCNFO	0.3127	0.4910	0.4863	0.0880	0.7667
3	SUPCFC	2.1932	3.8639	0.0492	2.9206	0.0874
4	SATRRF	2.2360	3.2172	0.0725	0.8237	0.3667
5	ORDNFO	0.8553	1.1141	0.2886	0.0022	0.9630
6	MESLFN	0.0378	0.0445	0.8338	0.9628	0.3296
7	QUALVY	0.1975	0.3111	0.5787	2.0480	0.1515
8	AMTNY7	0.0401	0.0658	0.7980	0.0524	0.8191
9	SPKGRA	0.6938	1.1741	0.2761	1.9548	0.1612
10	PMPCON	3.7601	5.6348	0.0176	7.2405	0.0072
11	MINPRF	1.1277	1.6339	0.1999	0.0087	0.9260
12	MININ	0.0520	0.0605	0.8069	0.8334	0.3595
13	FZCOMP	0.5830	0.8879	0.3497	0.3659	0.5484
14	USENFO	0.3958	0.5630	0.4545	0.2865	0.5919
15	RESPND	2.6666	3.7842	0.0514	1.7010	0.1913
16	CLRPTC	1.6876	2.7038	0.0994	0.2309	0.6325
17	UNAFO	2.7359	2.9683	0.0846	2.0605	0.1508

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 2578.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 6

VARIANCE OF CANONICAL VARIATE 1 = 0.0088 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.0087
M= 7.5 N= 1280.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

VARIABLE	RAW COEFFICIENT	STANDARDIZED
1 AMTNFO	0.134531	0.1000
2 ACCNFO	0.066547	0.0531
3 SUPDEC	-0.395301	-0.2978
4 SATBRF	-0.295468	-0.2463
5 ORDNFO	-0.180346	-0.1580
6 MESLEN	0.232111	0.2145
7 QUALVY	0.324104	0.2582
8 AMTNYZ	0.117976	0.0920
9 SPKGRA	0.756643	0.5817
10 EMPCCN	-0.819259	-0.6692
11 MINPRE	-0.092522	-0.0769
12 MININ	0.346861	0.3218
13 FZCCMP	-0.119464	-0.0960
14 USFNFO	0.406911	0.3368
15 RESFND	-0.399762	-0.3356
16 CLRPIC	-0.174886	-0.1382
17 UNNFO	-0.374616	-0.3596

HOTELLING'S TRACE CRITERION= 0.0088

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 22.4749 WITH 17. DEGREES OF FREEDOM P LESS THAN 0.1672

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

	1 GADO
1	-9.260037D-02

HYPOTHESIS 7 1 DEGREE(S) OF FREEDOM

C.C.O.O.C.D1.C.O. POWERPNT

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 1.9418

D.F.= 17. AND 2562.0000 P LESS THAN 0.0116

	VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN
1	AMTNFC	7.1316	12.9190	0.0004	12.9190	0.0004
2	ACCNFC	2.1011	3.2587	0.0690	0.0378	0.8460
3	SUPDFC	2.0582	3.6566	0.0544	0.0102	0.9196
4	SATBRF	1.4561	2.1527	0.1415	0.6902	0.4095
5	CRDNFC	0.6870	0.6948	0.3481	0.2441	0.6206
6	MESLFN	4.4123	5.1931	0.0227	2.0044	0.1560
7	QUALVY	0.8705	1.3711	0.2398	0.0000	0.9977
8	AMTNY7	0.0912	0.1495	0.7001	0.9626	0.3270
9	SPKGRA	0.1262	0.2135	0.6459	0.2324	0.6309
10	PMFCON	1.2430	1.8628	0.1709	0.2665	0.6071
11	MTAPRF	10.2109	14.7936	0.0002	8.7365	0.0032
12	MTNTN	5.1766	6.0154	0.0142	0.0008	0.9770
13	F2TCMP	2.0565	3.1321	0.0762	0.1770	0.6765
14	USFNFC	3.9745	5.7598	0.0160	0.0059	0.9387
15	RESPNC	8.1019	11.4578	0.0008	3.1844	0.0743
16	CLRPTC	8.1868	13.1165	0.0003	2.9819	0.0836
17	UNNFC	2.9545	3.2489	0.0710	0.5102	0.4747

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 2578.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 7

VARIANCE OF CANONICAL VARIATE 1 = 0.0129 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.0127
M= 7.5 N= 1280.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

VARIABLE RAW COEFFICIENT STANDARDIZED

1	AMTNFO	-0.742026	-0.5513
2	ACCNFO	-0.037414	-0.0299
3	SUPCEC	0.232763	0.1754
4	SATBRF	0.594834	0.4959
5	ORDNFO	0.327689	0.2871
6	MESLEN	-0.221638	-0.2043
7	OLALVY	-0.184563	-0.1474
8	AMTNYZ	0.373550	0.2917
9	SFKGRA	0.180847	0.1390
10	PMPCON	0.049839	0.0407
11	MINPRE	-0.711581	-0.5915
12	MININ	0.064169	0.0595
13	EZCOMP	0.046171	0.0374
14	USFNFO	0.230474	0.1908
15	RESPND	-0.396709	-0.3330
16	CLPPIC	-0.579469	-0.4578
17	UNNFO	-0.154302	-0.1481

HOTELLING'S TRACE CRITERION= 0.0125

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 32.8853 WITH 17. DEGREES OF FREEDOM P LESS THAN 0.0117

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

	1 POWERPNT
1	-0.245565

HYPOTHESIS 8 1 DEGREE(S) OF FREEDOM

0.0.0.0.0.0.01.0. OLD USE

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 2.1555

D.F.= 17. AND 2562.0000 P LESS THAN 0.0032

VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN

1	AMTNFO	6.1634	11.1651	0.0009	11.1651	0.0009
2	ACCNFO	1.3831	2.1715	0.1394	0.0036	0.9521
3	SUPDEC	7.7455	13.6459	0.0003	5.4992	0.0191
4	SATBRF	11.9716	17.2255	0.0001	4.4726	0.0344
5	ORDNFO	9.6364	12.5524	0.0005	2.3587	0.1242
6	MESLEN	11.1774	13.1551	0.0003	1.3332	0.2471
7	QUALVY	1.2946	2.0391	0.1521	1.2043	0.2707
8	AMTNYZ	2.8754	4.7318	0.0296	0.7399	0.3897
9	SPKGRA	1.7607	2.9755	0.0840	0.0335	0.8550
10	PMPCCN	5.9420	8.9046	0.0029	1.5347	0.2143
11	MINPRF	17.3596	25.1507	0.0001	6.7252	0.0096
12	MININ	14.1229	16.4112	0.0001	0.7886	0.3744
13	FZCOMP	6.4188	9.7759	0.0018	0.1364	0.7140
14	USFNFO	12.1562	17.7392	0.0001	0.6441	0.4212
15	RESPND	12.8347	18.2141	0.0001	0.3823	0.5369
16	CLRPIC	10.4677	16.7708	0.0001	0.1065	0.7452
17	UNNFO	3.4845	3.7806	0.0517	0.1200	0.7296

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 2578.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 8

VARIANCE OF CANONICAL VARIATE 1 = 0.0146 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.0144
M= 7.5 N= 1280.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

VARIABLE	RAW COEFFICIENT	STANDARDIZED
1 AMTNFO	-0.066635	-0.0495
2 ACCNFO	0.423970	0.2384
3 SUPDEC	-0.090514	-0.0682
4 SATBRF	-0.136777	-0.1157
5 ORDNFO	-0.239287	-0.2097
6 MESLEN	-0.228588	-0.2111
7 QUALVY	0.517348	0.4122
8 AMTNYZ	-0.185631	-0.1448
9 SPKGRA	0.114135	0.0877
10 PMPCCN	-0.158891	-0.1298
11 MINPRF	-0.474955	-0.2946
12 MININ	-0.197603	-0.1833
13 FZCOMP	-0.029184	-0.0236
14 USFNFO	-0.179854	-0.1489
15 RESPND	-0.171065	-0.1436
16 CLRPIC	-0.109220	-0.0863
17 UNNFO	0.070454	0.0676

HOTELLING'S TRACE CRITERION= 0.0146

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 37.1429 WITH 17. DEGREES OF FREEDOM P LESS THAN 0.0033

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

1
OLD USE

1 9.356828D-02

HYPOTHESIS 9 1 DEGREE(S) OF FREEDOM

0.0.0.0.0.0.0.1. NEW USE

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 4.0478

D.F.= 17. AND 2562.0000 P LESS THAN 0.0001

	VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN
1	AMTNEC	21.3670	38.7068	0.0001	38.7068	0.0001
2	ACCNED	18.2185	28.6031	0.0001	7.8087	0.0053
3	SUPDEC	12.6421	22.2726	0.0001	0.6504	0.4199
4	SATBRE	19.4067	27.9235	0.0001	1.2509	0.2618
5	ORDNED	10.4414	13.6009	0.0003	0.0277	0.8677
6	MESLEN	20.6706	24.3281	0.0001	3.2389	0.0715
7	QUALVY	0.7585	1.1947	0.2724	7.6064	0.0059
8	AMTNYZ	2.2766	3.7411	0.0528	0.0417	0.8384
9	SPKGRA	2.8982	4.9044	0.0267	0.0628	0.8029
10	PMPCON	3.8011	5.6963	0.0170	0.0317	0.8590
11	MTAPRE	16.9579	24.5688	0.0001	1.7473	0.1850
12	MINTN	16.9671	19.7162	0.0001	1.4693	0.2253
13	EZCOMP	11.5254	17.5534	0.0001	1.6359	0.1989
14	USENEC	22.6642	33.0733	0.0001	1.5444	0.2141
15	RESPND	19.3271	27.4277	0.0001	0.1383	0.7104
16	CLRPTC	19.3093	30.9362	0.0001	1.0085	0.3127
17	UNNED	3.0140	3.2701	0.0701	1.7483	0.1856

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 2578.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 5

VARIANCE OF CANONICAL VARIATE 1 = 0.0269 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.0262
M= 7.5 N= 1280.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

VARIABLE	RAW COEFFICIENT	STANDARDIZED
1 AMTNFO	-0.497632	-0.3697
2 ACCNFO	-0.412331	-0.3291
3 SUPDEC	0.064549	0.0489
4 SATBRF	-0.045447	-0.0379
5 ORDNFO	0.082895	0.0726
6 MESLEN	-0.358982	-0.2309
7 QUALVY	0.627226	0.4998
8 AMTNYZ	-0.002840	-0.0022
9 SPKGRA	-0.029949	-0.0230
10 PMPCON	0.120757	0.0986
11 MINPRE	-0.012183	-0.0101
12 MININ	-0.195024	-0.1809
13 EZCOMP	-0.207666	-0.1683
14 USFNFO	-0.236144	-0.1955
15 RESPND	-0.050699	-0.0426
16 CLRPIC	-0.250956	-0.1983
17 UNNFO	0.198911	0.1910

HOTELLING'S TRACE CRITERION= 0.0269

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 68.2519 WITH 17. DEGREES OF FREEDOM P LESS THAN 0.0001

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

	1 NEW USE
1	0.174995

MULTIVARIATE ANALYSIS OF VARIANCE
(QUESTION 8--REACTION TO TRIAL PATWAS)

This section contains the results of the multivariate analysis of variance of question 8 using the responses from the initial and follow-up returns. The highlights of the findings are presented in the volume I section entitled PILOT SURVEY.

UNIVARIATE AND MULTIVARIATE ANALYSIS OF VARIANCE, COVARIANCE, AND REGRESSION

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PROBLEM

ANALYSIS OF PATWAS QUESTIONNAIRE - QUESTION 8

PAGE 1

INPUT PARAMETERS

PAGE 2

NUMBER OF VARIABLES IN INPUT VECTORS= 14

NUMBER OF FACTORS IN DESIGN= 8

NUMBER OF LEVELS OF FACTOR 1 (L/RATING) = 2
NUMBER OF LEVELS OF FACTOR 2 (ENGINES) = 2
NUMBER OF LEVELS OF FACTOR 3 (TOTALFLY) = 2
NUMBER OF LEVELS OF FACTOR 4 (ANUALFLY) = 2
NUMBER OF LEVELS OF FACTOR 5 (GADO) = 2
NUMBER OF LEVELS OF FACTOR 6 (POWERPNT) = 2
NUMBER OF LEVELS OF FACTOR 7 (OLD USE) = 2
NUMBER OF LEVELS OF FACTOR 8 (NEW USE) = 2

INPUT IS FROM CARDS. DATA OPTION 2

MINIMAL PAGE SPACING WILL BE USED

FORMAT OF DATA
(35X,F2.1,4F1.0,F2.1,2F1.0,F2.1,5F1.0)

FIRST OBSERVATION
SUBJECT 1 , CELL 1 1 1 1 1 1 1 1
3.5000 3.0000 3.0000 3.0000 4.0000 3.5000 3.0000 3.0000
3.5000 1.0000 3.0000 3.0000 4.0000 4.0000

CELL IDENTIFICATION AND FREQUENCIES

PAGE 3

CELL	FACTOR LEVELS								N
	L/RATING	ENGINES	TOTALFLY	ANUALFLY	GADO	POWERPNT	OLD USE	NEW USE	
1	1	1	1	1	1	1	1	1	9
2	1	1	1	1	1	1	1	2	2
3	1	1	1	1	1	1	2	1	1
4	1	1	1	1	1	1	2	2	2
EMPTY	1	1	1	1	1	2	1	1	0
EMPTY	1	1	1	1	1	2	1	2	0
EMPTY	1	1	1	1	1	2	2	1	0
EMPTY	1	1	1	1	1	2	2	2	0
5	1	1	1	1	2	1	1	1	6

EMPTY	1	1	1	1	2	1	1	2	0
EMPTY	1	1	1	1	2	1	2	1	0
6	1	1	1	1	2	1	2	2	1
EMPTY	1	1	1	1	2	2	1	1	0
EMPTY	1	1	1	1	2	2	1	2	0
EMPTY	1	1	1	1	2	2	2	1	0
EMPTY	1	1	1	1	2	2	2	2	0
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8	1	1	1	2	1	1	1	2	3
9	1	1	1	2	1	1	2	1	1
10	1	1	1	2	1	1	2	2	1
EMPTY	1	1	1	2	1	2	1	1	0
EMPTY	1	1	1	2	1	2	1	2	0
EMPTY	1	1	1	2	1	2	2	1	0
EMPTY	1	1	1	2	1	2	2	2	0
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13	1	1	1	2	2	1	2	1	1
14	1	1	1	2	2	1	2	2	1
EMPTY	1	1	1	2	2	2	1	1	0
EMPTY	1	1	1	2	2	2	1	2	0
EMPTY	1	1	1	2	2	2	2	1	0
EMPTY	1	1	1	2	2	2	2	2	0
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16	1	1	2	1	1	1	1	2	6
17	1	1	2	1	1	1	2	1	5
EMPTY	1	1	2	1	1	1	2	2	0
EMPTY	1	1	2	1	1	2	1	1	0
EMPTY	1	1	2	1	1	2	1	2	0
EMPTY	1	1	2	1	1	2	2	1	0
EMPTY	1	1	2	1	1	2	2	2	0
18	1	1	2	1	2	1	1	1	10
19	1	1	2	1	2	1	1	2	1
20	1	1	2	1	2	1	2	1	1
21	1	1	2	1	2	1	2	2	1
22	1	1	2	1	2	2	1	1	1
EMPTY	1	1	2	1	2	2	1	2	0
EMPTY	1	1	2	1	2	2	2	1	0
EMPTY	1	1	2	1	2	2	2	2	0
23	1	1	2	2	1	1	1	1	13
24	1	1	2	2	1	1	1	2	7
25	1	1	2	2	1	1	2	1	4
26	1	1	2	2	1	1	2	2	14
EMPTY	1	1	2	2	1	2	1	1	0
27	1	1	2	2	1	2	1	2	1
EMPTY	1	1	2	2	1	2	2	1	0
EMPTY	1	1	2	2	1	2	2	2	0
28	1	1	2	2	2	1	1	1	17
29	1	1	2	2	2	1	1	2	11
EMPTY	1	1	2	2	2	1	2	1	0
30	1	1	2	2	2	1	2	2	6
31	1	1	2	2	2	2	1	1	3
EMPTY	1	1	2	2	2	2	1	2	0
EMPTY	1	1	2	2	2	2	2	1	0
EMPTY	1	1	2	2	2	2	2	2	0
32	1	2	1	1	1	1	1	1	463
33	1	2	1	1	1	1	1	2	223
34	1	2	1	1	1	1	2	1	38
35	1	2	1	1	1	1	2	2	76
36	1	2	1	1	1	2	1	1	7
37	1	2	1	1	1	2	1	2	1

38	1	2	1	1	1	2	2	1	1
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39	1	2	1	1	2	1	1	1	264
40	1	2	1	1	2	1	1	2	103
41	1	2	1	1	2	1	2	1	26
42	1	2	1	1	2	1	2	2	29
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44	1	2	1	1	2	2	1	2	1
EMPTY	1	2	1	1	2	2	2	1	0
45	1	2	1	1	2	2	2	2	1
46	1	2	1	2	1	1	1	1	210
47	1	2	1	2	1	1	1	2	240
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49	1	2	1	2	1	1	2	2	41
EMPTY	1	2	1	2	1	2	1	1	0
EMPTY	1	2	1	2	1	2	1	2	0
EMPTY	1	2	1	2	1	2	2	1	0
EMPTY	1	2	1	2	1	2	2	2	0
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51	1	2	1	2	2	1	1	2	141
52	1	2	1	2	2	1	2	1	9
53	1	2	1	2	2	1	2	2	33
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EMPTY	1	2	1	2	2	2	1	2	0
EMPTY	1	2	1	2	2	2	2	1	0
EMPTY	1	2	1	2	2	2	2	2	0
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57	1	2	2	1	1	1	2	1	13
58	1	2	2	1	1	1	2	2	17
59	1	2	2	1	1	2	1	1	3
EMPTY	1	2	2	1	1	2	1	2	0
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61	1	2	2	1	1	2	2	2	1
62	1	2	2	1	2	1	1	1	39
63	1	2	2	1	2	1	1	2	18
64	1	2	2	1	2	1	2	1	5
65	1	2	2	1	2	1	2	2	4
EMPTY	1	2	2	1	2	2	1	1	0
EMPTY	1	2	2	1	2	2	1	2	0
EMPTY	1	2	2	1	2	2	2	1	0
EMPTY	1	2	2	1	2	2	2	2	0
66	1	2	2	2	1	1	1	1	73
67	1	2	2	2	1	1	1	2	48
68	1	2	2	2	1	1	2	1	11
69	1	2	2	2	1	1	2	2	40
70	1	2	2	2	1	2	1	1	2
71	1	2	2	2	1	2	1	2	3
EMPTY	1	2	2	2	1	2	2	1	0
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74	1	2	2	2	2	1	2	1	10
75	1	2	2	2	2	1	2	2	20
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EMPTY	1	2	2	2	2	2	1	2	0
EMPTY	1	2	2	2	2	2	2	1	0
EMPTY	1	2	2	2	2	2	2	2	0
76	2	1	1	1	1	1	1	1	8
77	2	1	1	1	1	1	1	2	1
78	2	1	1	1	1	1	2	1	1

79	2	1	1	1	1	1	2	2	2
EMPTY	2	1	1	1	1	2	1	1	0
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EMPTY	2	1	1	1	1	2	2	1	0
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81	2	1	1	1	2	1	1	2	1
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EMPTY	2	1	1	1	2	1	2	2	0
EMPTY	2	1	1	1	2	2	1	1	0
EMPTY	2	1	1	1	2	2	1	2	0
EMPTY	2	1	1	1	2	2	2	1	0
EMPTY	2	1	1	1	2	2	2	2	0
83	2	1	1	2	1	1	1	1	7
84	2	1	1	2	1	1	1	2	6
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85	2	1	1	2	1	1	2	2	5
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EMPTY	2	1	1	2	1	2	1	2	0
EMPTY	2	1	1	2	1	2	2	1	0
EMPTY	2	1	1	2	1	2	2	2	0
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87	2	1	1	2	2	1	1	2	7
EMPTY	2	1	1	2	2	1	2	1	0
88	2	1	1	2	2	1	2	2	1
EMPTY	2	1	1	2	2	2	1	1	0
EMPTY	2	1	1	2	2	2	1	2	0
EMPTY	2	1	1	2	2	2	2	1	0
EMPTY	2	1	1	2	2	2	2	2	0
89	2	1	2	1	1	1	1	1	22
90	2	1	2	1	1	1	1	2	13
91	2	1	2	1	1	1	2	1	11
92	2	1	2	1	1	1	2	2	12
93	2	1	2	1	1	2	1	1	6
94	2	1	2	1	1	2	1	2	1
95	2	1	2	1	1	2	2	1	1
EMPTY	2	1	2	1	1	2	2	2	0
96	2	1	2	1	2	1	1	1	21
97	2	1	2	1	2	1	1	2	7
98	2	1	2	1	2	1	2	1	3
99	2	1	2	1	2	1	2	2	5
100	2	1	2	1	2	2	1	1	3
101	2	1	2	1	2	2	1	2	3
EMPTY	2	1	2	1	2	2	2	1	0
EMPTY	2	1	2	1	2	2	2	2	0
102	2	1	2	2	1	1	1	1	137
103	2	1	2	2	1	1	1	2	119
104	2	1	2	2	1	1	2	1	31
105	2	1	2	2	1	1	2	2	100
106	2	1	2	2	1	2	1	1	42
107	2	1	2	2	1	2	1	2	23
108	2	1	2	2	1	2	2	1	6
109	2	1	2	2	1	2	2	2	10
110	2	1	2	2	2	1	1	1	62
111	2	1	2	2	2	1	1	2	82
112	2	1	2	2	2	1	2	1	19
113	2	1	2	2	2	1	2	2	57
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115	2	1	2	2	2	2	1	2	23
116	2	1	2	2	2	2	2	1	7
117	2	1	2	2	2	2	2	2	14

118	2	2	1	1	1	1	1	1	14
119	2	2	1	1	1	1	1	2	5
120	2	2	1	1	1	1	2	1	5
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122	2	2	1	1	1	2	1	1	1
EMPTY	2	2	1	1	1	2	1	2	0
EMPTY	2	2	1	1	1	2	2	1	0
EMPTY	2	2	1	1	1	2	2	2	0
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125	2	2	1	1	2	1	2	1	4
126	2	2	1	1	2	1	2	2	4
EMPTY	2	2	1	1	2	2	1	1	0
EMPTY	2	2	1	1	2	2	1	2	0
EMPTY	2	2	1	1	2	2	2	1	0
EMPTY	2	2	1	1	2	2	2	2	0
127	2	2	1	2	1	1	1	1	27
128	2	2	1	2	1	1	1	2	45
129	2	2	1	2	1	1	2	1	5
130	2	2	1	2	1	1	2	2	16
131	2	2	1	2	1	2	1	1	1
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EMPTY	2	2	1	2	1	2	2	1	0
EMPTY	2	2	1	2	1	2	2	2	0
132	2	2	1	2	2	1	1	1	19
133	2	2	1	2	2	1	1	2	20
134	2	2	1	2	2	1	2	1	4
135	2	2	1	2	2	1	2	2	12
EMPTY	2	2	1	2	2	2	1	1	0
EMPTY	2	2	1	2	2	2	1	2	0
EMPTY	2	2	1	2	2	2	2	1	0
EMPTY	2	2	1	2	2	2	2	2	0
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138	2	2	2	1	1	1	2	1	8
139	2	2	2	1	1	1	2	2	16
EMPTY	2	2	2	1	1	2	1	1	0
EMPTY	2	2	2	1	1	2	1	2	0
EMPTY	2	2	2	1	1	2	2	1	0
EMPTY	2	2	2	1	1	2	2	2	0
140	2	2	2	1	2	1	1	1	7
141	2	2	2	1	2	1	1	2	3
142	2	2	2	1	2	1	2	1	5
143	2	2	2	1	2	1	2	2	7
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EMPTY	2	2	2	1	2	2	1	2	0
EMPTY	2	2	2	1	2	2	2	1	0
EMPTY	2	2	2	1	2	2	2	2	0
144	2	2	2	2	1	1	1	1	68
145	2	2	2	2	1	1	1	2	76
146	2	2	2	2	1	1	2	1	14
147	2	2	2	2	1	1	2	2	78
148	2	2	2	2	1	2	1	1	5
149	2	2	2	2	1	2	1	2	3
EMPTY	2	2	2	2	1	2	2	1	0
EMPTY	2	2	2	2	1	2	2	2	0
150	2	2	2	2	2	1	1	1	36
151	2	2	2	2	2	1	1	2	42
152	2	2	2	2	2	1	2	1	16
153	2	2	2	2	2	1	2	2	39
154	2	2	2	2	2	2	1	1	6

155	2	2	2	2	2	2	1	2	2
EMPTY	2	2	2	2	2	2	2	1	0
EMPTY	2	2	2	2	2	2	2	2	0

TOTAL N= 4298.

101 NULL SUBCLASS(ES).

OBSERVED CELL MEANS --- ROWS ARE CELLS-COLUMNS ARE VARIABLES

	1 ANTNFD	2 ACCNFD	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPCGRA	10 PMPCON
1	3.388889	3.000000	2.777778	3.000000	3.666667	2.833333	3.111111	3.222222	3.333333	2.888889
2	3.250000	4.000000	4.000000	3.000000	4.500000	3.000000	4.000000	4.000000	3.750000	4.000000
3	4.500000	0.0	4.000000	4.000000	5.000000	4.000000	4.000000	4.000000	3.000000	4.000000
4	3.000000	3.500000	3.500000	3.500000	3.500000	3.000000	4.500000	4.500000	2.000000	5.000000
5	3.916667	3.833333	4.000000	3.000000	3.166667	3.583333	4.000000	3.833333	3.000000	3.833333
6	3.500000	4.000000	4.000000	4.000000	4.000000	3.500000	3.000000	4.000000	4.000000	5.000000
7	3.444444	3.555556	3.555556	4.000000	3.444444	3.388889	3.888889	3.777778	4.000000	4.222222
8	2.833333	4.000000	4.000000	3.333333	3.666667	3.166667	4.000000	3.333333	4.000000	4.000000
9	3.000000	3.000000	4.000000	4.000000	4.000000	3.000000	4.000000	4.000000	3.000000	2.000000
10	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	2.000000	3.000000	4.000000
11	3.833333	3.666667	4.000000	3.333333	3.000000	3.666667	3.000000	3.000000	3.666667	4.666667
12	4.333333	4.000000	4.000000	2.666667	2.666667	3.666667	4.333333	3.000000	4.000000	3.333333
13	3.500000	4.000000	4.000000	3.000000	5.000000	3.500000	1.000000	1.000000	4.000000	1.000000
14	4.000000	2.000000	4.000000	4.000000	2.000000	4.000000	4.000000	4.000000	4.000000	4.000000
15	3.423077	3.692308	3.846154	3.923077	3.615385	3.538462	3.692308	3.846154	3.615385	3.538462
16	3.416667	4.000000	4.000000	4.000000	3.500000	3.666667	4.166667	3.833333	4.000000	3.000000
17	3.600000	2.600000	3.600000	4.000000	3.200000	3.400000	3.200000	3.000000	3.400000	3.400000
18	3.450000	3.100000	3.700000	3.300000	3.600000	3.450000	3.700000	3.700000	3.500000	3.200000
19	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	5.000000	4.000000	3.000000	2.000000
20	3.000000	4.000000	4.000000	4.000000	4.000000	3.000000	4.000000	4.000000	3.500000	4.000000
21	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000
22	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000
23	3.423077	3.769231	3.769231	4.000000	3.846154	3.153846	3.769231	3.769231	3.615385	3.769231
24	3.571429	4.000000	4.000000	3.571429	4.142857	3.571429	3.571429	3.142857	3.357143	4.000000
25	4.000000	3.500000	4.000000	4.000000	3.250000	1.500000	3.500000	3.000000	2.500000	4.250000
26	4.071429	3.357143	3.571429	3.642857	3.357143	3.785714	3.357143	3.214286	3.571429	4.000000
27	4.000000	4.000000	4.000000	4.000000	3.000000	4.000000	2.000000	3.000000	3.000000	4.000000
28	3.264706	2.647059	3.352941	3.470588	3.588235	3.058824	3.588235	3.529412	3.147059	3.352941
29	3.636364	3.545455	3.909091	4.090909	3.454545	3.772727	4.000000	4.181818	3.590909	3.000000
30	3.500000	4.166667	3.833333	4.166667	3.833333	3.666667	4.166667	4.166667	4.166667	3.333333
31	3.500000	4.000000	4.000000	4.000000	3.333333	3.333333	4.333333	4.333333	4.000000	3.666667
32	3.497840	3.602592	3.758099	3.583153	3.531317	3.325054	3.799136	3.719222	3.484881	3.801296
33	3.831839	3.757848	3.896861	3.753363	3.511211	3.607623	3.784753	3.623318	3.661435	3.950673
34	3.657895	3.815789	3.858421	3.657895	3.236842	3.578947	3.473684	3.368421	3.486842	3.359421
35	3.703947	3.815789	3.828947	3.723684	3.631579	3.703947	3.710526	3.710526	3.736842	3.710526
36	3.500000	3.142857	3.285714	3.428571	3.285714	3.285714	3.428571	3.428571	3.285714	3.428571
37	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000	3.000000	4.000000	4.000000
38	3.500000	4.000000	4.000000	4.000000	4.000000	3.500000	5.000000	5.000000	4.000000	5.000000
39	3.589015	3.606061	3.731061	3.643939	3.503788	3.376894	3.685606	3.696970	3.511364	3.356061
40	3.621359	3.572816	3.757282	3.572816	3.524272	3.466019	3.747573	3.708738	3.679612	3.323388
41	3.596154	3.461538	3.759231	3.961538	3.461538	3.269231	3.653846	3.615385	3.730769	3.769231
42	3.965517	3.827586	3.620690	4.000000	3.733103	3.931034	3.793103	3.620690	3.775862	3.379310
43	1.500000	3.250000	3.750000	3.750000	4.250000	2.250000	2.750000	2.750000	1.500000	4.250000

44	3.000000	4.000000	4.000000	4.000000	5.000000	3.000000	4.000000	4.000000	4.000000	2.000000
45	3.000000	4.000000	4.000000	4.000000	2.000000	3.500000	4.000000	4.000000	4.000000	4.000000
46	3.650000	3.676190	3.671429	3.714286	3.376190	3.426190	3.719048	3.742857	3.647619	3.742857
47	3.675000	3.791667	3.820833	3.737500	3.537500	3.541667	3.662500	3.604167	3.679167	3.979167
48	3.500000	3.250000	3.750000	3.750000	3.750000	3.437500	4.125000	3.375000	3.562500	3.500000
49	3.670732	3.560976	3.853659	3.585366	3.512195	3.609756	3.585366	3.317073	3.756098	3.926829
50	3.415842	3.811881	3.693069	3.693069	3.465347	3.282178	3.821782	3.653465	3.440594	3.445545

OBSERVED CELL MEANS --- ROWS ARE CELLS-COLUMNS ARE VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
51	3.808511	3.730496	3.900709	3.751773	3.595745	3.446809	3.574468	3.652482	3.653121	3.390071
52	3.055556	3.888889	3.777778	3.111111	3.222222	2.888889	3.666667	3.444444	3.000000	2.555556
53	3.803030	3.878788	3.606061	3.818182	3.696970	3.651515	3.696970	3.575758	3.666667	2.818182
54	3.000000	3.000000	4.000000	4.000000	3.000000	3.000000	4.000000	4.000000	4.000000	4.000000
55	3.080357	3.589286	3.607143	3.767857	3.750000	2.973214	3.678571	3.660714	3.196429	3.642857
56	3.847826	3.521739	3.869565	3.782609	3.652174	3.673913	3.608696	3.695652	3.760870	3.869565
57	3.307692	3.307692	3.615385	3.692308	2.923077	3.538462	3.615385	3.769231	3.230769	3.538462
58	3.588235	3.647059	3.882353	3.529412	3.764706	3.500000	3.470588	3.411765	3.764706	3.705882
59	3.500000	4.333333	4.000000	4.000000	4.333333	3.500000	3.666667	4.333333	3.333333	4.333333
60	4.500000	4.000000	4.000000	4.000000	4.000000	3.000000	4.000000	4.000000	3.000000	4.000000
61	4.000000	4.000000	4.000000	4.000000	4.000000	3.500000	4.000000	4.000000	4.000000	4.000000
62	3.192308	3.538462	3.717949	3.743590	3.538462	3.051282	3.641026	3.435897	3.192308	3.179487
63	3.500000	3.833333	3.277778	4.000000	3.611111	3.527778	3.944444	3.888889	3.722222	3.388889
64	3.700000	3.200000	3.600000	3.600000	3.200000	3.700000	3.800000	3.200000	3.700000	2.800000
65	3.750000	3.750000	4.000000	4.000000	4.000000	3.750000	4.000000	4.000000	4.000000	3.500000
66	3.493151	3.602740	3.547945	3.616438	3.657534	3.472603	3.506849	3.657534	3.650685	3.808219
67	3.750000	3.750000	3.812500	3.729167	3.479167	3.635417	3.687500	3.625000	3.510417	3.750000
68	3.863636	3.536364	4.000000	4.090909	3.545455	3.863636	3.909091	3.727273	3.954545	3.727273
69	3.562500	3.725000	3.850000	3.925000	3.775000	3.725000	3.750000	3.775000	3.800000	4.000000
70	4.250000	3.500000	4.000000	4.000000	3.000000	4.000000	4.000000	4.000000	4.000000	4.500000
71	4.166667	4.000000	4.000000	4.000000	3.666667	3.833333	4.333333	3.666667	4.000000	2.333333
72	3.272727	3.568182	3.545455	3.727273	3.131818	3.465909	3.772727	3.750000	3.750000	3.045455
73	3.385714	3.800000	3.800000	3.885714	3.828571	3.557143	3.742857	3.657143	3.542857	3.200000
74	3.350000	3.500000	3.600000	3.400000	3.500000	3.400000	3.900000	3.300000	3.900000	3.500000
75	3.375000	3.700000	3.350000	3.850000	3.750000	3.625000	3.900000	3.750000	4.000000	3.200000
76	3.937500	3.625000	3.375000	3.875000	3.500000	3.562500	4.250000	4.000000	4.000000	4.000000
77	5.000000	4.000000	4.000000	4.000000	2.000000	5.000000	4.000000	4.000000	4.000000	4.000000
78	3.000000	4.000000	4.000000	4.000000	1.000000	3.000000	2.000000	2.000000	2.500000	4.000000
79	3.500000	3.500000	4.000000	4.000000	3.500000	4.000000	4.000000	1.000000	3.500000	4.500000
80	2.166667	4.000000	3.333333	3.333333	3.333333	3.166667	3.333333	3.666667	3.666667	4.000000
81	3.500000	3.000000	2.000000	2.000000	3.000000	3.500000	2.000000	4.000000	3.000000	4.000000
82	4.000000	3.500000	4.000000	4.000000	3.500000	4.000000	4.000000	4.000000	4.000000	4.000000
83	3.357143	4.142857	4.000000	3.428571	3.428571	3.142857	3.714286	3.000000	3.142857	4.142857
84	3.833333	3.833333	3.666667	4.000000	3.166667	2.583333	3.833333	3.333333	3.583333	3.833333
85	3.700000	3.800000	3.800000	3.400000	2.800000	3.800000	4.400000	4.000000	3.600000	4.600000
86	4.333333	4.166667	4.000000	4.000000	3.500000	3.833333	4.000000	4.166667	3.750000	3.333333
87	3.714286	3.857143	3.714286	3.714286	2.857143	3.500000	3.571429	3.000000	3.142857	2.714286
88	4.000000	4.000000	4.000000	4.000000	3.000000	4.000000	3.000000	4.000000	3.500000	3.000000
89	3.727273	3.727273	3.818182	3.636364	3.409091	3.750000	3.818182	3.818182	4.022727	3.772727
90	3.884615	3.923077	3.846154	3.692308	3.615385	3.846154	4.153846	3.846154	4.076923	4.076923
91	3.727273	3.090909	3.727273	3.454545	3.363636	3.272727	3.636364	3.363636	3.409091	3.000000
92	3.708333	3.583333	3.833333	3.916667	3.533333	3.500000	3.583333	3.666667	3.500000	4.083333
93	3.666667	3.833333	3.166667	3.833333	3.833333	3.750000	3.666667	3.833333	3.666667	4.000000
94	4.000000	4.000000	4.000000	4.000000	4.000000	3.000000	4.000000	4.000000	4.000000	4.000000
95	3.500000	4.000000	4.000000	3.000000	4.000000	3.500000	4.000000	4.000000	4.000000	4.000000

96	3.309524	3.142857	3.809524	3.809524	3.380952	3.000000	3.857143	3.857143	3.238095	3.095238
97	3.428571	3.428571	3.285714	3.857143	3.571429	3.357143	3.571429	3.857143	3.214286	3.428571
98	4.333333	3.000000	3.333333	4.333333	2.666667	4.000000	4.000000	4.000000	3.833333	4.000000
99	3.900000	4.000000	4.000000	4.200000	3.200000	4.100000	3.800000	3.800000	3.800000	4.000000
100	3.333333	3.666667	4.000000	3.666667	3.666667	3.666667	4.000000	3.333333	4.000000	4.000000

OBSERVED CELL MEANS --- ROWS ARE CELLS-COLUMNS ARE VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEV	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
101	3.833333	3.333333	3.333333	3.333333	2.000000	3.666667	4.333333	4.333333	3.000000	3.333333
102	3.467153	3.496350	3.518248	3.627737	3.102190	3.215328	3.627737	3.474453	3.456204	3.527737
103	3.579832	3.655462	3.756303	3.781513	3.336555	3.327731	3.655462	3.714286	3.705882	4.109244
104	3.322581	3.612903	3.548387	3.838710	3.129032	3.387097	3.774194	3.806452	3.790323	3.741935
105	3.725000	3.720000	3.910000	3.860000	3.480000	3.410000	3.960000	3.870000	3.680000	3.930000
106	3.440476	3.738095	3.880952	3.714286	3.714286	3.309524	3.690476	3.690476	3.369048	3.976190
107	3.782609	3.608696	3.869565	3.826087	3.608696	3.478261	4.043478	3.826087	3.586957	4.086957
108	3.083333	3.166667	3.500000	3.666667	3.166667	3.500000	3.166667	2.833333	3.666667	3.833333
109	3.950000	4.000000	4.200000	4.000000	3.900000	3.800000	3.900000	3.500000	4.050000	4.200000
110	3.432927	3.463415	3.524390	3.585366	3.231707	3.243902	3.756098	3.768293	3.560976	3.512195
111	3.420732	3.743902	3.719512	3.573171	3.219512	3.487805	3.743902	3.743902	3.585366	3.304878
112	3.184211	3.631579	3.526316	3.473684	2.894737	3.368421	3.894737	3.894737	3.921053	3.736842
113	3.394737	3.649123	3.614035	3.771930	3.403509	3.271930	3.842105	3.508772	3.552632	3.736842
114	3.218182	3.400000	3.490909	3.581818	2.945455	3.190909	3.672727	3.545455	3.390909	3.400000
115	3.673913	3.521739	3.695652	3.739130	3.217391	3.521739	3.913043	3.695652	3.847826	3.130435
116	3.500000	3.714286	3.428571	3.714286	3.428571	3.214286	3.714286	3.428571	3.571429	3.428571
117	3.571429	3.714286	3.928571	3.785714	3.142857	3.642857	3.428571	3.785714	3.714286	3.500000
118	3.785714	3.714286	3.642857	3.285714	3.428571	3.321429	3.571429	3.642857	3.750000	3.857143
119	3.400000	3.600000	4.000000	3.600000	3.600000	3.400000	3.800000	4.000000	3.900000	3.600000
120	2.900000	3.000000	3.800000	3.600000	3.400000	2.400000	4.000000	4.400000	3.000000	4.000000
121	3.666667	4.000000	3.666667	3.888889	3.333333	3.277778	3.444444	3.777778	3.500000	4.222222
122	4.000000	3.000000	4.000000	3.000000	4.000000	3.500000	4.000000	4.000000	4.000000	4.000000
123	3.588235	3.647059	3.823529	3.705882	3.352941	3.529412	3.823529	3.705882	3.764706	3.294118
124	3.600000	3.600000	3.200000	3.600000	2.800000	3.300000	3.800000	3.800000	3.400000	3.800000
125	4.000000	3.500000	4.250000	3.250000	3.750000	3.250000	4.000000	4.000000	3.750000	3.300000
126	3.875000	3.500000	3.250000	4.250000	3.750000	3.750000	4.000000	4.250000	3.875000	4.250000
127	3.574074	3.555556	3.481481	3.592593	3.333333	3.500000	3.703704	3.518519	3.500000	3.925926
128	3.866667	3.588889	3.800000	3.822222	3.288889	3.433333	3.777778	3.800000	3.588889	4.155556
129	3.800000	3.400000	4.000000	3.600000	3.800000	3.500000	3.800000	3.600000	2.700000	3.400000
130	3.625000	3.562500	3.812500	3.937500	3.125000	3.937500	3.687500	3.500000	3.656250	3.812500
131	1.500000	5.000000	4.000000	4.000000	4.000000	2.500000	5.000000	5.000000	0.0	5.000000
132	3.447368	3.263158	3.526316	3.473684	2.684211	3.105263	3.315789	3.368421	3.605263	3.210526
133	3.925000	3.750000	3.800000	3.900000	2.800000	3.600000	3.300000	3.400000	3.375000	2.750000
134	3.875000	3.750000	3.000000	3.250000	3.250000	2.500000	3.250000	4.000000	3.875000	4.000000
135	3.458333	3.416667	3.500000	3.583333	3.500000	3.458333	3.500000	3.416667	3.500000	3.250000
136	3.634615	3.730769	3.461538	3.807692	3.884615	3.173077	3.730769	3.846154	3.788462	3.730769
137	3.552632	3.842105	3.684211	3.736842	3.526316	3.368421	3.894737	3.526315	3.736842	4.105263
138	3.562500	3.625000	3.250000	3.750000	3.000000	3.062500	3.750000	3.500000	3.812500	3.875000
139	3.531250	3.750000	3.812500	3.812500	3.375000	3.656250	3.812500	3.875000	3.687500	4.062500
140	3.571429	3.428571	3.285714	3.714286	3.285714	2.928571	3.571429	3.571429	3.142857	3.142857
141	3.333333	3.666667	4.000000	3.666667	4.000000	3.333333	2.333333	3.333333	3.666667	3.000000
142	3.500000	3.000000	3.200000	3.800000	2.800000	3.000000	3.200000	2.800000	3.400000	3.600000
143	3.500000	3.428571	4.142857	4.142857	2.857143	3.285714	3.714286	3.857143	3.571429	3.142857
144	3.455882	3.352941	3.573529	3.705882	3.117647	3.367647	3.676471	3.617647	3.602941	3.779412
145	3.710526	3.855263	3.723684	3.710526	3.500000	3.467105	3.947368	3.671053	3.776315	4.131579
146	3.392857	3.642857	3.642857	3.857143	3.000000	3.392857	3.642857	3.714286	3.642857	3.928571
147	3.602564	3.756410	3.705128	3.717949	3.269231	3.467949	3.884615	3.833333	3.705128	3.974359

148	3.800000	3.400000	3.600000	4.000000	4.000000	3.800000	4.400000	4.200000	4.000000	3.800000
149	3.833333	3.666667	4.000000	3.666667	3.666667	4.000000	3.333333	3.333333	3.333333	4.333333
150	3.222222	3.277778	3.333333	3.472222	3.111111	3.013889	3.611111	3.472222	3.152778	3.444444

OBSERVED CELL MEANS --- ROWS ARE CELLS-COLUMNS ARE VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 OROSAT	5 SUPDEC	6 NESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PNPCON
151	3.583333	3.857143	3.785714	3.904762	3.452381	3.404762	3.809524	3.452381	3.702381	3.357143
152	3.625000	3.625000	3.937500	3.875000	3.250000	3.656250	3.625000	3.500000	3.375000	3.352500
153	3.474359	3.589744	3.759231	4.000000	3.205128	3.371795	3.717949	3.512821	3.717949	3.410256
154	2.916667	3.166667	3.166667	3.166667	3.166667	2.666667	3.333333	3.000000	3.250000	3.500000
155	3.750000	4.000000	4.000000	2.000000	1.000000	3.250000	4.000000	4.000000	3.500000	3.000000

OBSERVED CELL MEANS --- ROWS ARE CELLS-COLUMNS ARE VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLJP
1	3.222222	3.777778	4.000000	4.555556
2	4.000000	4.000000	4.000000	5.000000
3	4.000000	4.000000	5.000000	5.000000
4	3.500000	3.500000	3.500000	4.000000
5	3.000000	3.333333	3.833333	4.000000
6	4.000000	4.000000	4.000000	5.000000
7	3.777778	3.555556	4.222222	4.333333
8	4.000000	3.666667	4.000000	3.333333
9	4.000000	2.000000	4.000000	4.000000
10	4.000000	4.000000	4.000000	5.000000
11	3.000000	2.333333	3.333333	4.666667
12	4.000000	4.000000	4.666667	4.333333
13	4.000000	4.000000	3.000000	5.000000
14	4.000000	4.000000	4.000000	4.000000
15	3.846154	3.615385	3.846154	4.076923
16	3.333333	3.666667	4.166667	4.500000
17	3.600000	3.400000	4.000000	4.400000
18	3.500000	3.700000	4.000000	3.700000
19	4.000000	3.000000	4.000000	4.000000
20	4.000000	4.000000	4.000000	4.000000
21	4.000000	4.000000	4.000000	4.000000
22	4.000000	4.000000	4.000000	4.000000
23	3.615385	3.538462	3.846154	4.076923
24	4.000000	4.285714	4.285714	4.571429
25	4.500000	4.000000	4.250000	4.500000
26	3.714286	3.785714	3.928571	4.071429
27	3.000000	3.000000	4.000000	4.000000
28	3.705882	3.529412	4.058824	4.588235
29	3.636364	3.363636	4.272727	4.181818
30	3.833333	3.833333	4.166667	4.500000
31	4.000000	3.666667	4.000000	4.333333
32	3.678186	3.539957	3.937355	4.228942
33	3.843049	3.636771	4.183857	4.502242
34	3.394737	3.289474	4.078947	4.473684
35	4.013158	3.776316	4.236842	4.539474

36	3.428571	3.285714	4.142857	4.142857
37	4.000000	4.000000	4.000000	4.000000
38	4.000000	4.000000	4.000000	4.000000
39	3.602273	3.507576	3.955909	4.109848
40	3.572816	3.485437	4.165049	4.378641
41	3.807692	3.576923	4.076923	4.307692
42	3.896552	4.034483	4.379310	4.689655
43	4.000000	4.000000	2.250000	3.000000
44	4.000000	4.000000	4.000000	4.000000
45	4.000000	4.000000	5.000000	5.000000
46	3.714286	3.614286	4.014286	4.371429
47	3.887500	3.616667	4.229167	4.537500
48	3.875000	3.375000	4.125000	4.750000
49	3.975610	3.682927	4.121951	4.560976
50	3.574257	3.504950	4.019802	4.247525

OBSERVED CELL MEANS --- ROWS ARE CELLS-COLUMNS ARE VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
51	3.893617	3.730496	4.191489	4.439716
52	3.888889	3.333333	4.000000	5.000000
53	3.939394	3.787879	4.424242	4.484848
54	4.000000	3.000000	4.000000	4.000000
55	3.464286	3.571429	3.821429	4.035714
56	3.782609	3.565217	4.086957	4.130435
57	3.615385	3.461538	3.592308	3.615385
58	4.000000	3.529412	4.117647	4.176471
59	4.000000	4.000000	4.000000	4.333333
60	4.000000	4.000000	4.000000	5.000000
61	4.000000	4.000000	4.000000	4.000000
62	3.410256	3.615385	4.025641	4.076923
63	3.833333	3.555556	4.111111	4.388889
64	2.600000	3.400000	4.000000	4.400000
65	4.000000	3.000000	4.250000	4.250000
66	3.616438	3.657534	4.068493	4.205479
67	4.000000	3.541667	4.291667	4.375000
68	3.727273	3.636364	3.818182	4.000000
69	3.800000	3.825000	4.075000	4.450000
70	4.500000	4.500000	4.500000	4.500000
71	3.333333	4.000000	4.333333	4.333333
72	3.704545	3.409091	3.840909	4.363636
73	3.685714	3.742857	4.057143	4.371429
74	4.100000	4.000000	4.200000	4.100000
75	3.950000	3.800000	4.000000	4.150000
76	3.500000	3.125000	4.000000	4.625000
77	4.000000	4.000000	4.000000	4.000000
78	4.000000	4.000000	4.000000	4.000000
79	2.000000	4.000000	4.000000	4.500000
80	3.333333	2.333333	4.666667	4.333333
81	3.000000	2.000000	4.000000	5.000000
82	4.000000	4.000000	4.500000	4.500000
83	4.000000	3.142857	4.142857	4.428571
84	3.833333	3.833333	4.333333	5.000000
85	4.200000	3.200000	4.400000	4.600000
86	4.333333	4.166667	4.666667	4.666667
87	3.857143	3.714286	4.285714	4.714286

88	0.0	4.000000	4.000000	5.000000
89	3.681818	3.681818	4.045455	4.136364
90	4.230769	3.923077	4.000000	4.384615
91	3.636364	3.636364	3.909091	4.363636
92	3.833333	3.583333	4.166667	4.583333
93	3.666667	3.833333	3.833333	4.333333
94	4.000000	4.000000	4.000000	4.000000
95	4.000000	3.000000	4.000000	4.000000
96	3.904762	3.285714	3.619048	3.904762
97	4.142857	3.714286	3.857143	4.428571
98	3.333333	3.333333	4.000000	4.333333
99	4.000000	4.000000	4.000000	4.800000
100	4.000000	4.000000	4.000000	4.000000

OBSERVED CELL MEANS --- ROWS ARE CELLS-COLUMNS ARE VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLJP
101	4.000000	2.333333	3.666667	4.000000
102	3.664234	3.394161	3.948905	4.306569
103	3.857143	3.680672	4.042017	4.453782
104	3.935484	3.516129	3.870968	4.516129
105	3.950000	3.650000	4.130000	4.430000
106	3.714286	3.571429	3.928571	4.238095
107	3.913043	3.608696	4.000000	4.391304
108	3.666667	2.833333	3.833333	4.666667
109	4.000000	4.200000	4.200000	4.500000
110	3.731707	3.536585	4.012195	4.341463
111	3.951220	3.463415	4.000000	4.524390
112	3.894737	3.315789	3.736842	4.631579
113	3.736842	3.596491	4.017544	4.578947
114	3.727273	3.327273	3.745455	3.836364
115	4.000000	3.652174	4.043478	4.260870
116	3.571429	3.000000	4.428571	4.571429
117	3.714286	3.500000	4.071429	4.642857
118	3.000000	3.357143	4.000000	4.214286
119	4.000000	4.000000	4.000000	4.600000
120	3.400000	3.600000	4.400000	4.200000
121	3.555556	3.666667	4.333333	4.333333
122	3.000000	2.000000	4.000000	4.000000
123	3.588235	3.235294	4.117647	4.352941
124	3.600000	3.800000	4.200000	4.400000
125	4.000000	3.750000	3.750000	4.750000
126	4.500000	3.750000	4.250000	4.250000
127	3.925926	3.592593	4.037037	4.259259
128	3.933333	3.844444	4.222222	4.555556
129	3.400000	4.000000	4.200000	4.600000
130	3.812500	3.625000	4.312500	4.687500
131	5.000000	5.000000	5.000000	5.000000
132	3.315789	3.000000	3.473684	4.000000
133	4.050000	3.900000	4.150000	4.400000
134	3.750000	3.250000	4.000000	4.500000
135	3.833333	3.583333	4.083333	4.583333
136	3.653846	3.576923	4.192308	4.461538
137	4.000000	3.789474	3.947368	4.421053
138	3.875000	3.625000	4.000000	4.125000
139	3.750000	3.500000	3.937500	4.375000

140	3.857143	3.142857	4.000000	4.428571
141	3.666667	4.000000	3.666667	4.666667
142	3.400000	2.600000	4.000000	4.400000
143	4.000000	3.571429	4.428571	4.571429
144	3.661755	3.532941	4.029412	4.250000
145	3.960526	3.631579	4.013158	4.539474
146	4.000000	3.500000	3.928571	4.071429
147	3.935897	3.769231	3.923077	4.589744
148	4.000000	3.500000	4.500000	4.800000
149	4.000000	3.666667	4.000000	4.666667
150	3.166667	3.333333	3.527778	3.916667

OBSERVED CELL MEANS --- ROWS ARE CELLS-COLUMNS ARE VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
151	3.809524	3.666667	3.857143	4.333333
152	3.812500	3.875000	4.187500	4.687500
153	3.846154	3.692308	4.025641	4.461538
154	3.333333	3.166667	3.500000	3.333333
155	4.000000	4.000000	4.000000	5.000000

OBSERVED CELL STD DEVS--ROWS ARE CELLS-COLUMNS VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
1	1.431297	1.500000	1.481366	1.581139	1.500000	1.732051	1.691482	1.481366	1.391941	1.615893
2	0.353553	0.0	0.0	1.414214	0.707107	0.0	0.0	0.0	0.353553	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.707107	2.121320	2.121320	2.121320	2.121320	0.0	0.707107	0.707107	2.828427	0.0
5	0.664580	0.408248	0.632456	1.549193	0.752773	0.491596	0.632456	0.408248	1.549193	0.408248
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.583333	1.333333	1.333333	0.0	0.831917	0.485913	0.781736	1.092906	0.0	0.440959
8	2.466441	0.0	0.0	1.154701	0.577350	0.763763	0.0	1.154701	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.763763	0.577350	0.0	1.154701	1.732051	0.577350	1.732051	1.732051	0.577350	0.577350
12	0.577350	0.0	0.0	1.154701	1.527525	0.288675	0.577350	1.732051	0.0	1.154701
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	1.077152	0.480384	0.554700	0.277350	0.869718	1.107955	0.751058	0.554700	1.120897	0.877058
16	0.491595	0.0	0.0	0.0	1.048809	0.516398	0.408248	0.983192	0.0	1.549193
17	0.547723	0.894427	0.894427	0.0	0.836660	0.547723	1.095445	1.000000	0.547723	1.341641
18	0.497214	0.737865	0.674949	1.251666	0.699206	0.685160	0.674949	0.674949	1.269296	1.135292
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.534094	0.438529	0.725011	0.408248	0.898717	1.087517	0.725011	0.599145	1.102154	0.926809
24	0.534522	0.0	0.0	0.786796	0.377964	0.534522	0.786796	1.069045	0.748013	0.0
25	0.912871	0.577350	0.0	0.0	0.957427	1.732051	2.380476	2.160247	1.732051	0.500000
26	0.615728	1.150728	1.157858	1.081818	0.841897	0.508175	0.928783	1.251373	1.174360	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

28	1.359201	1.656094	1.320094	1.328422	1.416811	1.519481	1.277636	1.178858	1.389297	1.366619
29	0.452257	0.687552	0.301511	0.301511	1.035725	0.410100	0.774597	0.404520	0.583874	1.483240
30	0.894427	0.408248	0.983192	0.408248	0.752773	0.752773	0.408248	0.408248	0.408248	0.983192
31	0.500000	0.0	0.0	0.0	2.081666	0.577350	0.577350	0.577350	0.0	1.527525
32	1.017166	0.903189	0.843754	0.914705	1.024902	1.031778	0.865800	0.882120	0.987360	0.997529
33	0.687547	0.725730	0.571972	0.714821	1.030442	0.803755	0.842744	0.968789	0.776015	0.931088
34	0.627148	0.456500	0.528693	0.708112	1.101208	0.575705	1.083958	1.100885	1.009996	0.905570
35	0.909853	0.453447	0.838859	0.793283	1.043610	0.721931	0.949607	0.949607	0.486304	1.135330
36	1.581139	1.463850	1.496026	1.511858	1.496026	1.496026	1.511858	1.511858	1.496026	1.511858
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	0.812587	0.882940	0.822463	0.823907	0.994273	0.950783	0.916485	0.914101	0.871967	1.243279
40	0.732529	0.986198	0.797865	0.881197	1.055747	0.767802	0.893533	0.956208	0.720343	1.238386
41	0.860456	0.947872	0.651625	0.196116	0.947872	1.079173	1.017539	1.022817	0.551920	0.764601
42	0.653712	0.658405	1.236752	0.707107	0.977581	0.913433	0.818505	0.820008	0.544226	1.255300
43	1.732051	1.500000	0.500000	0.957427	0.500000	2.629956	2.061553	1.500000	1.914854	0.500000
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	0.818521	0.776389	0.928879	0.760437	1.109509	0.894176	0.929124	0.847496	0.865124	0.948719
47	0.717824	0.822241	0.800878	0.911256	0.988771	0.863202	0.958692	1.029676	0.718249	0.970045
48	0.707107	0.707107	0.886405	0.886405	1.164965	0.728869	0.353553	1.407886	0.495516	0.925820
49	0.618564	0.949968	0.514857	0.948040	0.951892	0.518558	1.117488	1.127808	0.462628	1.081440
50	1.002670	0.627899	1.046352	0.924582	1.118609	1.100945	0.864824	1.024067	1.153879	1.268663

OBSERVED CELL STD DEVS--ROWS ARE CELLS-COLUMNS VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUNO	8 LONYZ	9 SPKGRA	10 PMPCON
51	0.690909	0.800709	0.700051	0.785184	1.334952	1.017178	1.057180	0.933395	0.891420	1.235042
52	1.210487	0.333333	0.666667	1.364225	1.092906	1.672905	0.707107	0.881917	1.250000	1.236033
53	0.883348	0.819969	1.321443	0.768706	0.951474	0.643293	0.847233	0.969223	0.633279	1.309927
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	1.426301	1.074951	1.154888	0.914352	0.879049	1.343062	1.113669	1.031800	1.419598	1.242118
56	0.531610	0.994053	0.457697	0.518435	0.884652	0.886883	1.117592	1.063219	0.637281	1.013740
57	1.233870	1.315587	1.120897	1.109400	1.255756	0.518875	1.260850	1.165751	1.480644	1.198289
58	1.019119	0.785905	0.600245	0.799816	0.752447	1.345825	0.943242	1.121318	0.399908	0.919559
59	0.500000	0.577350	0.0	1.000000	0.577350	0.500000	0.577350	0.577350	0.577350	0.577350
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	1.228046	0.995943	1.024662	0.965673	1.072286	1.296731	1.038399	1.252258	1.545858	1.484513
63	1.111438	0.985184	1.526455	0.342997	0.697802	1.130750	0.416176	0.471405	1.114374	1.243283
64	0.758288	0.836660	0.547723	0.547723	0.836660	0.447214	0.447214	1.788854	0.447214	1.303840
65	0.500000	0.500000	0.0	0.0	0.816497	0.500000	0.816497	0.0	0.0	1.732051
66	0.955587	0.908902	1.130893	0.922408	0.900913	0.701637	1.156183	0.803105	0.848548	0.892212
67	0.805566	0.933992	1.055039	1.005085	1.071678	0.955051	1.074981	1.044234	1.164591	1.211646
68	0.595437	0.809040	0.447214	0.301511	0.687552	0.452267	0.700649	1.272078	0.350325	1.348400
69	0.761135	0.816104	0.833590	0.525625	0.767530	0.619657	0.776250	0.697523	0.490944	0.784465
70	0.353553	0.707107	0.0	0.0	1.414214	0.0	0.0	0.0	0.0	0.707107
71	0.288675	0.0	0.0	0.0	1.527525	0.288675	0.577350	0.577350	0.0	1.527525
72	1.031225	0.925045	0.975384	0.758322	1.126277	0.543436	0.803007	0.838742	0.555103	1.275066
73	1.377795	0.472789	0.833137	0.758149	0.785370	1.027357	0.700540	0.968409	0.987953	1.133216
74	0.625833	0.527046	1.254911	1.264911	0.707107	0.459468	0.737865	1.766981	0.737865	0.966092
75	0.958000	0.864505	1.089423	0.745160	0.786398	0.723206	0.788069	1.069924	0.458831	1.151658
76	0.623212	0.517549	1.597990	0.353553	0.755929	0.495516	0.462910	0.0	0.0	0.925820
77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	0.707107	0.707107	0.0	0.0	0.707107	0.0	0.0	1.414214	0.707107	0.707107

80	1.892959	0.0	1.154701	1.154701	0.577350	0.288675	1.154701	0.577350	0.577350	0.0
81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	0.0	0.707107	0.0	0.0	0.707107	0.0	0.0	0.0	0.0	0.0
83	0.626783	0.377964	0.0	0.975900	0.975900	1.463850	0.755929	1.527525	1.463850	0.377964
84	0.816497	0.408248	0.516398	0.0	0.983192	2.010390	0.752773	1.032796	0.664580	0.983192
85	0.570088	0.447214	1.095445	0.894427	0.836660	0.447214	0.547723	0.0	0.547723	0.547723
86	0.516398	0.752773	0.632456	0.632456	1.378405	0.516398	0.632456	0.408248	0.612372	1.535545
87	0.393398	0.377964	0.755929	0.755929	1.676163	0.408248	0.975900	1.290994	1.463850	1.603567
88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89	0.592157	0.455842	0.501081	0.789542	0.959121	0.505917	0.588490	0.664499	0.392710	0.685344
90	0.545964	0.277350	0.898717	0.854850	1.120897	0.473665	0.375534	1.281025	0.449359	0.862316
91	0.684238	1.044466	0.467099	0.934199	0.809040	1.190874	0.674200	1.286291	1.241334	1.264911
92	1.054392	0.668558	0.717741	0.288675	0.792961	0.768706	1.240112	0.778499	0.639602	0.288675
93	0.408248	0.408248	1.602082	0.408248	0.408248	0.612372	0.516398	0.408248	0.516398	0.532456
94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96	0.887077	1.424279	0.402374	0.511766	1.023533	1.072381	0.373212	0.478091	1.410842	1.338057
97	1.718249	1.133893	1.704336	0.377964	1.133893	1.625687	1.272418	0.690066	1.467911	0.975900
98	0.577350	1.000000	1.154701	0.577350	1.154701	1.000000	0.0	0.0	0.288675	0.0
99	0.418330	0.0	0.0	0.447214	0.836660	0.223607	0.447214	0.447214	0.447214	0.0
100	0.577350	0.577350	0.0	0.577350	0.577350	0.577350	0.0	1.154701	0.0	0.0

OBSERVED CELL STD DEVS--ROWS ARE CELLS-COLUMNS VARIABLES

	1 AMTNFD	2 ACCNFD	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPCGRA	10 PMPCON
101	0.763753	0.577350	1.154701	1.154701	1.000000	0.577350	0.577350	0.577350	0.0	2.081666
102	0.991145	0.924536	1.050925	0.985239	1.238385	1.145316	1.104851	1.200982	1.095570	1.118082
103	1.035356	0.838046	0.947489	0.738295	1.017718	1.167057	0.915377	0.984136	0.869472	0.734038
104	1.114563	0.843699	0.925156	0.860108	1.175923	0.872828	1.055452	0.980454	0.616092	1.053571
105	0.683038	0.739642	0.597687	0.791623	0.947938	0.865675	0.723627	0.812217	0.796203	0.808728
106	1.031234	0.912235	0.861150	0.891305	1.018984	1.224508	1.199351	1.047368	1.204967	0.840676
107	1.074774	1.233588	0.694416	0.576208	0.782718	1.081647	0.638055	0.886883	0.925057	0.417029
108	1.625320	1.329160	0.836650	0.816497	0.983192	0.547723	1.834848	1.722401	0.752773	0.408248
109	0.685160	0.816497	0.632456	0.471405	1.100505	0.586894	1.100505	1.080123	0.598609	0.421637
110	1.062150	1.135239	1.033102	1.041737	1.279456	1.281983	0.963032	0.864938	1.095418	1.102678
111	1.208175	0.766763	0.774188	0.956208	1.267099	0.981230	0.900082	0.913695	1.047645	1.224130
112	0.931106	0.683986	0.964274	1.123903	0.994135	0.495595	0.737468	0.657836	0.533936	0.733493
113	0.859489	0.876096	0.995604	0.906673	0.997491	1.035401	0.819178	1.054291	1.025062	1.044139
114	0.961113	0.973729	0.997640	0.956283	1.192852	0.915357	1.019342	1.135589	1.091596	1.313745
115	0.595603	1.038774	0.973970	0.864312	1.042572	0.487998	0.514609	1.019571	0.463062	1.179536
116	0.645497	0.755929	0.975900	0.487950	1.133893	0.487950	0.755929	1.133893	0.534522	0.975900
117	0.646206	1.138729	0.267261	0.578934	1.292412	0.456937	0.851631	0.578934	0.468807	1.019049
118	0.611250	0.611250	1.215739	1.069045	0.937614	1.084987	1.089410	0.744946	0.379777	0.864438
119	0.418330	0.547723	0.0	0.894427	0.894427	0.547723	0.447214	0.0	0.223607	0.894427
120	1.949359	1.732051	0.447214	0.894427	0.894427	2.302173	1.224745	0.547723	1.870829	1.224745
121	0.353553	0.500000	1.000000	0.333333	1.118034	0.363242	1.509231	1.092906	0.559017	0.440959
122	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123	0.507300	1.114741	0.808957	0.848875	1.169464	0.544018	0.727607	1.104802	0.533785	1.046704
124	0.418330	0.547723	1.788854	0.547723	1.788854	0.447214	1.095445	0.447214	0.547723	1.095445
125	0.577350	1.000000	0.500000	0.957427	1.500000	0.288675	0.0	0.0	0.500000	1.000000
126	0.478714	0.577350	0.957427	0.500000	0.957427	0.500000	0.0	0.500000	0.250000	0.957427
127	1.166055	1.187542	1.282137	1.217161	1.037749	0.887954	0.912090	1.282137	1.126601	0.997147
128	0.504525	0.668180	0.587754	0.490310	1.179796	1.185135	0.926599	0.919486	0.955183	0.672700
129	0.758288	1.949359	0.0	0.894427	1.643168	0.500000	1.095445	0.894427	1.643168	1.341641
130	1.118034	1.030776	0.543906	0.573730	0.885061	0.478714	0.873212	0.966092	0.396600	0.750000
131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

132	1.052705	1.367971	1.218762	1.218762	1.249561	1.185315	1.454977	1.460994	1.297208	1.397575
133	0.544711	0.786398	0.894427	0.788069	1.056309	0.598243	1.260743	1.142481	1.223401	1.371707
134	0.250000	0.500000	2.000000	0.957427	0.957427	1.683251	0.957427	0.0	0.250000	0.0
135	0.541812	0.792961	0.797724	0.996205	0.934534	0.498102	0.904534	1.083625	0.476731	1.138180
136	0.878134	0.874423	1.207668	0.895287	0.711445	1.038675	0.961569	0.674822	0.451067	1.002305
137	0.797474	0.501460	1.056863	0.933459	0.904828	1.267567	0.567131	1.172292	0.561951	0.458831
138	0.728869	0.744024	1.388730	0.707107	1.135229	1.425219	1.035098	1.195229	0.651235	0.991031
139	0.498957	0.577350	0.655108	0.543906	0.806226	0.436606	0.750000	0.341565	0.602080	0.442531
140	0.731925	0.534522	1.253566	0.487950	1.380131	1.367131	1.718249	1.718249	1.453850	1.573592
141	0.577350	0.577350	0.0	0.577350	0.0	0.577350	1.154701	1.154701	0.577350	1.732051
142	0.500000	0.707107	1.788854	0.447214	0.447214	0.0	1.095445	1.095445	0.547723	1.516575
143	0.408248	0.786796	0.377964	0.377964	0.899735	0.487950	1.380131	1.345185	0.786796	1.463850
144	0.858388	0.988965	0.935473	0.754268	0.985407	0.956586	0.999122	0.930886	0.900078	0.878356
145	0.805246	0.558664	0.809917	0.762728	0.836942	1.024160	0.746454	0.885259	0.644953	0.754402
146	1.059364	0.841897	0.744946	0.534522	0.960769	0.525451	0.841897	0.611250	0.456937	0.730046
147	0.905822	0.759116	0.898902	0.771193	1.065066	0.909330	0.623788	0.672593	0.827435	0.720288
148	0.447214	1.949359	0.894427	0.707107	1.224745	0.273861	0.547723	0.447214	0.353553	1.095445
149	0.763763	0.577350	0.0	0.577350	0.577350	1.000000	1.154701	1.154701	0.577350	0.577350
150	1.278640	1.256096	1.414214	1.275844	1.165646	1.441656	1.293451	1.253250	1.477544	1.318970

OBSERVED CELL STD DEVS--ROWS ARE CELLS-COLUMNS VARIABLES

	1 ANTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
151	0.833130	0.646621	0.870540	0.484367	0.967833	0.664777	0.862161	1.130560	0.826833	1.265324
152	0.939858	0.619139	0.250000	0.500000	0.856349	0.597739	1.258306	1.460593	1.443376	1.569235
153	0.938565	1.018718	0.985728	0.458831	1.239259	0.964624	0.998650	1.048101	0.441214	1.332152
154	1.497220	1.602082	1.602082	1.602082	1.602082	1.366260	1.751190	1.549193	1.724819	1.378405
155	0.353553	0.0	0.0	2.828427	1.414214	0.353553	0.0	0.0	0.707107	1.414214

OBSERVED CELL STD DEVS--ROWS ARE CELLS-COLUMNS VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
1	1.394433	0.833333	1.322876	0.726483
2	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0
4	2.121320	2.121320	2.121320	1.414214
5	1.549193	0.516398	0.408248	0.632456
6	0.0	0.0	0.0	0.0
7	0.666667	0.726483	0.440959	0.500000
8	0.0	0.577350	0.0	2.081666
9	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0
11	1.732051	1.527525	1.154701	0.577350
12	0.0	1.000000	0.577350	1.154701
13	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0
15	0.554700	0.767948	1.214232	0.493548
16	1.211050	0.516398	0.408248	0.547723
17	0.894427	0.894427	0.707107	0.547723
18	0.849837	0.674949	0.471405	1.059350
19	0.0	0.0	0.0	0.0

20	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0
23	1.120897	0.776250	0.375534	0.759555
24	0.0	0.487950	0.487950	0.534522
25	0.577350	0.816497	0.500000	0.577350
26	1.069045	0.578934	0.267261	1.071612
27	0.0	0.0	0.0	0.0
28	1.159995	1.280510	1.144038	0.507300
29	1.433369	0.809040	0.786245	0.750757
30	0.983192	0.983192	0.408248	0.547723
31	0.0	1.527525	0.0	0.577350
32	0.963680	0.943204	0.889067	0.847369
33	0.804007	0.853130	0.733564	0.544211
34	1.346456	1.136802	0.573096	0.646690
35	0.528984	0.722933	0.745983	0.527656
36	1.511858	1.496026	0.377964	0.690066
37	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0
39	0.957735	0.880686	0.833457	0.854010
40	1.053490	0.988801	0.841300	0.817894
41	0.749359	0.945434	0.483576	0.549125
42	0.816999	0.823007	0.676852	0.541390
43	0.816497	0.0	2.629956	2.160247
44	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0
46	0.888139	0.863278	0.909696	0.715611
47	0.812977	0.939004	0.721446	0.671171
48	0.834523	1.302470	0.640870	0.462910
49	0.569553	0.819726	0.713972	0.502433
50	1.227571	0.965648	1.019610	0.983930

OBSERVED CELL STD DEVS--ROWS ARE CELLS-COLUMNS VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLJP
51	0.859419	0.844135	0.809893	0.787118
52	0.333333	0.866025	1.658312	0.0
53	1.028937	0.857233	0.552858	0.870388
54	0.0	0.0	0.0	0.0
55	1.320665	0.969670	1.129878	1.026278
56	0.998022	0.945135	0.417029	1.099766
57	1.120897	1.330124	1.109400	1.445595
58	0.500000	0.874475	0.600245	0.951006
59	0.0	1.000000	1.000000	0.577350
60	0.0	0.0	0.0	0.0
61	0.0	0.0	0.0	0.0
62	1.292039	0.935144	0.810691	1.155869
63	1.150447	0.921777	0.576400	0.501631
64	1.673320	0.894427	0.0	0.547723
65	0.0	2.000000	0.500000	0.500000
66	1.100885	0.820216	0.509051	0.744590
67	0.850532	1.110076	0.797825	0.959277
68	1.272078	1.286291	1.328020	1.414214
69	1.202561	0.812956	0.828576	0.677476
70	0.707107	0.707107	0.707107	0.707107
71	1.154701	0.0	0.577350	0.577350

72	0.667503	0.871198	0.963115	0.574291
73	0.932152	0.700540	0.683540	0.689660
74	0.567646	0.666667	0.421637	0.567646
75	0.825578	0.767772	0.794719	0.875094
76	1.414214	0.991031	0.755929	0.744024
77	0.0	0.0	0.0	0.0
78	0.0	0.0	0.0	0.0
79	2.828427	0.0	0.0	0.707107
80	1.154701	1.527525	0.577350	0.577350
81	0.0	0.0	0.0	0.0
82	0.0	0.0	0.707107	0.707107
83	0.0	1.573592	0.690066	0.786796
84	0.408248	0.408248	0.516398	0.0
85	0.447214	1.095445	0.547723	0.547723
86	0.516398	0.983192	0.516398	0.516398
87	0.377964	0.755929	0.487950	0.487950
88	0.0	0.0	0.0	0.0
89	0.779888	0.646335	0.575473	0.710161
90	0.438529	0.640513	1.000000	0.650444
91	0.674200	0.674200	1.044466	0.504525
92	0.717741	0.668558	0.389249	0.514929
93	0.516398	0.408248	0.408248	0.816497
94	0.0	0.0	0.0	0.0
95	0.0	0.0	0.0	0.0
96	0.300793	1.055597	1.244033	1.044259
97	0.690066	0.951190	1.345185	0.534522
98	0.577350	1.154701	0.0	0.577350
99	0.0	0.0	0.0	0.447214
100	0.0	0.0	0.0	0.0

OBSERVED CELL STD DEVS--ROWS ARE CELLS-COLUMNS VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
101	0.0	0.577350	1.527525	0.0
102	1.072911	1.066589	0.868748	0.870784
103	0.805550	0.780404	0.867443	0.799872
104	0.813858	0.926318	0.991361	0.625618
105	0.687184	0.808728	0.530135	0.843933
106	0.969931	0.991251	1.045148	0.878178
107	0.733178	0.782718	0.674200	0.583027
108	0.816497	1.329160	0.983192	0.516398
109	0.816497	0.421637	0.632456	0.527046
110	1.042892	0.971128	0.728501	0.945679
111	0.646022	0.877639	0.902671	0.526475
112	0.458831	1.002920	0.991189	0.495595
113	1.110443	0.903557	0.834335	0.498117
114	0.951695	0.963300	0.966440	1.316050
115	0.301511	0.714060	0.562322	0.810016
116	1.133893	1.414214	0.534522	0.534522
117	0.726273	0.854850	0.267261	0.633324
118	1.467599	0.841897	0.392232	0.425815
119	0.0	0.0	0.0	0.547723
120	1.341641	1.140175	0.547723	0.447214
121	1.333333	0.866025	0.500000	0.500000
122	0.0	0.0	0.0	0.0
123	1.121318	1.147247	0.500245	0.492592

124	0.894427	0.447214	0.836660	0.894427
125	0.0	0.500000	0.500000	0.500000
126	0.577350	0.957427	0.500000	0.957427
127	0.828619	1.009922	1.018350	1.022538
128	0.863397	0.767391	0.765414	0.623610
129	1.341641	0.707107	0.447214	0.547723
130	0.750000	0.718795	0.873212	0.478714
131	0.0	0.0	0.0	0.0
132	1.416280	1.290994	1.348597	1.490712
133	0.223607	0.640723	0.489350	0.882580
134	0.500000	0.500000	0.0	0.577350
135	0.834847	0.668558	0.514929	0.514929
136	1.164210	1.026570	0.491466	0.581774
137	0.0	0.418854	1.025978	0.507257
138	0.834523	0.744024	0.755929	0.640870
139	0.683130	0.816497	0.771902	0.500000
140	0.377964	1.069045	0.577350	0.786796
141	0.577350	0.0	0.577350	0.577350
142	1.341641	1.673320	0.0	0.547723
143	0.0	0.786796	0.534522	0.534522
144	0.940154	0.848875	0.545554	0.631865
145	0.575981	0.830134	0.720989	0.720015
146	0.392232	0.940540	0.615728	0.997249
147	0.795111	0.682301	0.679366	0.495064
148	0.707107	0.894427	0.547723	0.447214
149	0.0	0.577350	0.0	0.577350
150	1.664751	1.218899	1.482972	1.500000

OBSERVED CELL STD DEVS--ROWS ARE CELLS-COLUMNS VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
151	0.803592	0.845841	0.843090	0.721336
152	1.223043	0.718795	0.555108	0.478714
153	0.874747	0.731036	0.931529	0.505035
154	1.751190	1.602082	1.870829	2.065591
155	0.0	0.0	1.414214	0.0

OBSERVED COMBINED MEANS

FACTORS 1 (L/RATING)

LEVEL 1
N = 2644.

MEANS																	
	AMTNFO	=	3.593	ACCNFO	=	3.663	CONSAT	=	3.755	ORDSAT	=	3.694	SUPDEC	=	3.533
	MESLEN	=	3.446	EZUND	=	3.716	LONYZ	=	3.658	SPKGRA	=	3.584	PMPCON	=	3.649
	EZCOMP	=	3.734	CLRPIC	=	3.598	NOTAMS	=	4.065	HRLUP	=	4.327			

LEVEL 2
N = 1654.

MEANS															
	AMTNFO	=	3.546	ACCNFO	=	3.617	CONSAT	=	3.677	ORDSAT	=	3.718	SUPDEC	=	3.294

-------	MESLEN	=	3.372	EZUND	=	3.748	LONYZ	=	3.661	SPKGRA	=	3.602	PMPCON	=	3.719		
	EZCOMP	=	3.797	CLRPIC	=	3.568	NOTAMS	=	4.000	HRLUP	=	4.387					

FACTORS 2 (ENGINES)

LEVEL 1
N = 1122.

MEANS	AMTNFO	=	3.527	ACCNFO	=	3.591	CONSAT	=	3.690	ORDSAT	=	3.705	SUPDEC	=	3.335		
-------	MESLEN	=	3.368	EZUND	=	3.752	LONYZ	=	3.666	SPKGRA	=	3.586	PMPCON	=	3.696		
	EZCOMP	=	3.795	CLRPIC	=	3.548	NOTAMS	=	4.002	HRLUP	=	4.365					

LEVEL 2
N = 3176.

MEANS	AMTNFO	=	3.592	ACCNFO	=	3.664	CONSAT	=	3.737	ORDSAT	=	3.703	SUPDEC	=	3.478		
-------	MESLEN	=	3.435	EZUND	=	3.720	LONYZ	=	3.657	SPKGRA	=	3.593	PMPCON	=	3.669		
	EZCOMP	=	3.745	CLRPIC	=	3.600	NOTAMS	=	4.054	HRLUP	=	4.345					

FACTORS 3 (TOTALFLY)

LEVEL 1
N = 2327.

MEANS	AMTNFO	=	3.633	ACCNFO	=	3.675	CONSAT	=	3.764	ORDSAT	=	3.675	SUPDEC	=	3.483		
-------	MESLEN	=	3.443	EZUND	=	3.716	LONYZ	=	3.654	SPKGRA	=	3.582	PMPCON	=	3.680		
	EZCOMP	=	3.740	CLRPIC	=	3.588	NOTAMS	=	4.082	HRLUP	=	4.366					

LEVEL 2
N = 1971.

MEANS	AMTNFO	=	3.508	ACCNFO	=	3.609	CONSAT	=	3.679	ORDSAT	=	3.737	SUPDEC	=	3.392		
-------	MESLEN	=	3.388	EZUND	=	3.743	LONYZ	=	3.666	SPKGRA	=	3.602	PMPCON	=	3.672		
	EZCOMP	=	3.779	CLRPIC	=	3.584	NOTAMS	=	3.991	HRLUP	=	4.332					

FACTORS 4 (ANUALFLY)

LEVEL 1
N = 1757.

MEANS	AMTNFO	=	3.583	ACCNFO	=	3.627	CONSAT	=	3.748	ORDSAT	=	3.676	SUPDEC	=	3.521		
-------	MESLEN	=	3.416	EZUND	=	3.740	LONYZ	=	3.682	SPKGRA	=	3.558	PMPCON	=	3.664		
	EZCOMP	=	3.692	CLRPIC	=	3.563	NOTAMS	=	4.027	HRLUP	=	4.283					

LEVEL 2
N = 2541.

MEANS	AMTNFO	=	3.570	ACCNFO	=	3.658	CONSAT	=	3.709	ORDSAT	=	3.722	SUPDEC	=	3.386		
-------	MESLEN	=	3.419	EZUND	=	3.721	LONYZ	=	3.643	SPKGRA	=	3.614	PMPCON	=	3.685		
	EZCOMP	=	3.804	CLRPIC	=	3.603	NOTAMS	=	4.049	HRLUP	=	4.397					

FACTORS 5 (GADO)

LEVEL 1
N = 2695.

MEANS					
AMTNFO = 3.507	ACCNFO = 3.664	CONSAT = 3.747	ORDSAT = 3.708	SUPDEC = 3.468
MESLEN = 3.438	EZUND = 3.739	LONYZ = 3.666	SPKGRA = 3.608	PMPCON = 3.865
EZCOMP = 3.782	CLRPIC = 3.608	NOTAMS = 4.055	HRLUP = 4.376	

LEVEL 2
N = 1603.

MEANS				
AMTNFO = 3.522	ACCNFO = 3.613	CONSAT = 3.688	ORDSAT = 3.696	SUPDEC = 3.396
MESLEN = 3.384	EZUND = 3.711	LONYZ = 3.648	SPKGRA = 3.562	PMPCON = 3.359
EZCOMP = 3.719	CLRPIC = 3.550	NOTAMS = 4.016	HRLUP = 4.307	

FACTORS 6 (POWERPNT)

LEVEL 1
N = 4055.

MEANS				
AMTNFO = 3.582	ACCNFO = 3.648	CONSAT = 3.726	ORDSAT = 3.704	SUPDEC = 3.444
MESLEN = 3.420	EZUND = 3.727	LONYZ = 3.660	SPKGRA = 3.595	PMPCON = 3.676
EZCOMP = 3.756	CLRPIC = 3.590	NOTAMS = 4.046	HRLUP = 4.359	

LEVEL 2
N = 243.

MEANS				
AMTNFO = 3.459	ACCNFO = 3.597	CONSAT = 3.716	ORDSAT = 3.700	SUPDEC = 3.383
MESLEN = 3.383	EZUND = 3.749	LONYZ = 3.650	SPKGRA = 3.519	PMPCON = 3.687
EZCOMP = 3.794	CLRPIC = 3.531	NOTAMS = 3.938	HRLUP = 4.198	

FACTORS 7 (OLD USE)

LEVEL 1
N = 3346.

MEANS				
AMTNFO = 3.567	ACCNFO = 3.642	CONSAT = 3.718	ORDSAT = 3.680	SUPDEC = 3.447
MESLEN = 3.393	EZUND = 3.724	LONYZ = 3.665	SPKGRA = 3.570	PMPCON = 3.665
EZCOMP = 3.734	CLRPIC = 3.569	NOTAMS = 4.027	HRLUP = 4.316	

LEVEL 2
N = 952.

MEANS				
AMTNFO = 3.606	ACCNFO = 3.655	CONSAT = 3.751	ORDSAT = 3.786	SUPDEC = 3.421
MESLEN = 3.506	EZUND = 3.746	LONYZ = 3.640	SPKGRA = 3.666	PMPCON = 3.717
EZCOMP = 3.845	CLRPIC = 3.649	NOTAMS = 4.086	HRLUP = 4.468	

FACTORS 8 (NEW USE)

LEVEL 1
N = 2247.

MEANS				
AMTNFO = 3.484	ACCNFO = 3.568	CONSAT = 3.662	ORDSAT = 3.650	SUPDEC = 3.405
MESLEN = 3.320	EZUND = 3.711	LONYZ = 3.657	SPKGRA = 3.514	PMPCON = 3.619
EZCOMP = 3.655	CLRPIC = 3.514	NOTAMS = 3.959	HRLUP = 4.239	

LEVEL 2
N = 2051.

MEANS					
AMTNFO = 3.676	ACCNFO = 3.729	CONSAT = 3.794	ORDSAT = 3.762	SUPDEC = 3.480
MESLEN = 3.525	EZUND = 3.747	LONYZ = 3.662	SPKGRA = 3.675	PMPCON = 3.740
EZCOMP = 3.871	CLRPIC = 3.667	NOTAMS = 4.130	HRLUP = 4.471	

ESTIMATION PARAMETERS

PAGE 5

RANK OF THE BASIS = RANK OF MODEL FOR SIGNIFICANCE TESTING = 9

RANK OF THE MODEL TO BE ESTIMATED IS 9

ERROR TERM TO BE USED IS (RESIDUAL)

NUMBER OF ORDERS OF THE BASIS VECTORS OTHER THAN THE FIRST IS 7

ESTIMATED CELL MEANS, RESIDUALS AND RESIDUALS IN FORM OF T-STATISTICS WILL BE PRINTED

SYMBOLIC CONTRAST VECTORS

PAGE 6

(1)	D0,D0,D0,D0,D0,D0,D0,D0,	
(2)	D1,0,0,0,0,0,0,0,	L/RATING
(3)	0,D1,0,0,0,0,0,0,	ENGINES
(4)	0,0,D1,0,0,0,0,0,	TOTALFLY
(5)	0,0,0,D1,0,0,0,0,	ANUALFLY
(6)	0,0,0,0,D1,0,0,0,	GADD
(7)	0,0,0,0,0,D1,0,0,	POWERPNT
(8)	0,0,0,0,0,0,D1,0,	OLD USE
(9)	0,0,0,0,0,0,0,D1,	NEW USE

ERROR CORRELATION MATRIX

1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON

1 AMTNFO	1.000000									
2 ACCNFO	0.236870	1.000000								
3 CONSAT	0.328788	0.301352	1.000000							
4 ORDSAT	0.286057	0.250606	0.379193	1.000000						
5 SUPDEC	0.187214	0.214571	0.326925	0.235589	1.000000					
6 MESLEN	0.489982	0.193203	0.296545	0.280126	0.219960	1.000000				
7 EZUND	0.212131	0.244965	0.275484	0.318815	0.185906	0.253656	1.000000			
8 LONYZ	0.227027	0.221034	0.250874	0.288212	0.137633	0.239373	0.582777	1.000000		
9 SPKGRA	0.374539	0.220771	0.255048	0.266817	0.170690	0.475491	0.363706	0.330308	1.000000	
10 PMPCON	0.164651	0.149567	0.195764	0.203762	0.129535	0.179964	0.241711	0.258890	0.204778	1.000001
11 EZCOMP	0.257751	0.256478	0.304342	0.322861	0.213710	0.257462	0.345941	0.311224	0.319534	0.274610
12 CLRPIC	0.292073	0.306172	0.390466	0.329290	0.401210	0.289441	0.290595	0.251942	0.241537	0.250343
13 NOTAMS	0.246544	0.205074	0.257679	0.264607	0.193655	0.239493	0.217099	0.190466	0.227234	0.193932
14 HRLUP	0.149807	0.131058	0.183918	0.197465	0.107911	0.159155	0.170228	0.145400	0.172568	0.183970

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
11 EZCOMP	1.000000			
12 CLRPIC	0.417410	1.000000		
13 NOTAMS	0.276462	0.299856	1.000000	
14 HRLUP	0.235974	0.221392	0.391785	1.000000

VARIABLE	VARIANCE (ERROR MEAN SQUARES)	STANDARD DEVIATION
1 AMTNFO	0.810518	0.9003
2 ACCNFO	0.748294	0.8650
3 CONSAT	0.787369	0.8873
4 ORDSAT	0.709042	0.8420
5 SUPDEC	1.086133	1.0422
6 MESLEN	0.918145	0.9582
7 EZUND	0.873124	0.9344
8 LONYZ	0.944157	0.9717
9 SPKGRA	0.835072	0.9138
10 PMPCON	1.124764	1.0605
11 EZCOMP	0.859920	0.9273
12 CLRPIC	0.812446	0.9014
13 NOTAMS	0.678339	0.8236
14 HRLUP	0.619454	0.7871

D.F.= 4289.

ERROR TERM FOR ANALYSIS OF VARIANCE (RESIDUAL)

LEAST SQUARE ESTIMATES OF EFFECTS -- EFFECTS X VARIABLES

1	2	3	4	5	6	7	8	9	10

	AMTNFO	ACCNFO	CONSAT	ORDSAT	SUPDEC	MESLEN	EZUND	LONYZ	SPKGRA	PMPCON
1	3.565000	3.632624	3.761398	3.717049	3.449100	3.454031	3.744823	3.650369	3.573853	3.553904
2	-0.012639	0.009449	0.033233	0.014976	0.140031	0.044990	-0.012025	-0.003577	0.004268	-0.051156
3	0.010933	-0.020574	0.017690	-0.019598	-0.002819	-0.006008	0.010706	0.005397	-0.006782	0.013304
4	0.078836	0.028968	0.035325	-0.037126	-0.048915	0.013785	-0.007980	-0.014614	-0.004471	0.040505
5	0.003149	-0.019010	0.015718	-0.007757	0.045040	-0.000281	0.024244	0.027800	-0.015757	0.000657
6	0.037872	0.022499	0.026931	0.005252	0.031675	0.023241	0.014237	0.008373	0.020607	0.253632
7	0.011137	-0.013741	-0.037495	-0.005274	-0.043147	-0.033179	-0.005829	0.007887	0.025505	-0.035523
8	-0.004602	0.008344	-0.010651	-0.034786	0.006058	-0.040818	-0.001578	0.018013	-0.025312	-0.005537
9	-0.098441	-0.081683	-0.072893	-0.046820	-0.058868	-0.100086	-0.020702	-0.010153	-0.071261	-0.052757

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
1	3.789751	3.578062	4.029787	4.315039
2	-0.005129	0.026692	0.026013	-0.036648
3	0.012647	-0.023847	0.016067	0.022541
4	0.013920	-0.011744	0.050420	0.072019
5	-0.033947	-0.016350	-0.018654	-0.046543
6	0.031747	0.026379	0.015599	0.031276
7	-0.024518	-0.001938	0.016601	0.071304
8	-0.024311	-0.023070	-0.018568	-0.048432
9	-0.096491	-0.070134	-0.082736	-0.094908

ESTIMATES OF EFFECTS IN STANDARD DEVIATION UNITS-EFF X VARS

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
1	3.959845	4.199372	4.238969	4.414306	3.309514	3.604713	4.007682	3.756771	3.910882	3.454723
2	-0.014039	0.010923	0.037453	0.017785	0.134364	0.046953	-0.012869	-0.003681	0.004670	-0.048235
3	0.012144	-0.023784	0.019936	-0.023274	-0.002705	-0.006270	0.011457	0.005555	-0.007421	0.012545
4	0.087567	0.033487	0.039810	-0.044090	-0.046935	0.014386	-0.008540	-0.015040	-0.004893	0.038287
5	0.003498	-0.021976	0.017713	-0.009212	0.043217	-0.000293	0.025945	0.028611	-0.017243	0.000619
6	0.042067	0.026009	0.030350	0.006237	0.030393	0.024255	0.015235	0.008617	0.022551	0.239151
7	0.012371	-0.015885	-0.042255	-0.006263	-0.041401	-0.034627	-0.006238	0.008117	0.027911	-0.033590
8	-0.005111	0.009646	-0.012003	-0.041311	0.035813	-0.042599	-0.001689	0.018538	-0.027700	-0.005221
9	-0.109344	-0.094426	-0.082148	-0.055602	-0.056485	-0.104452	-0.022155	-0.010449	-0.077981	-0.049745

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
1	4.086795	3.969636	4.892814	5.482520
2	-0.005531	0.029614	0.031584	-0.046563
3	0.013638	-0.026457	0.019508	0.028640
4	0.015011	-0.013029	0.061218	0.091504
5	-0.036608	-0.018139	-0.022649	-0.059136
6	0.034235	0.029266	0.018939	0.039738
7	-0.026440	-0.002150	0.020156	0.090596

8	-0.026217	-0.025594	-0.022544	-0.061536
9	-0.104053	-0.077810	-0.100455	-0.120586

STANDARD ERRORS OF LEAST-SQUARES ESTIMATES--EFFECTS BY VARS

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND
1	3.275658D-02	3.147410D-02	3.228541D-02	3.063749D-02	3.791917D-02	3.486365D-02	3.399815D-02
2	1.963303D-02	1.886436D-02	1.935063D-02	1.836293D-02	2.272729D-02	2.089593D-02	2.037718D-02
3	2.056100D-02	1.975599D-02	2.026525D-02	1.923086D-02	2.380150D-02	2.188358D-02	2.134032D-02
4	1.859300D-02	1.786505D-02	1.832556D-02	1.739018D-02	2.152334D-02	1.978899D-02	1.929773D-02
5	1.571475D-02	1.509949D-02	1.548871D-02	1.469813D-02	1.819147D-02	1.672560D-02	1.631039D-02
6	1.424913D-02	1.369125D-02	1.404417D-02	1.332733D-02	1.649486D-02	1.516571D-02	1.478922D-02
7	3.164114D-02	3.040233D-02	3.118601D-02	2.959420D-02	3.662793D-02	3.367646D-02	3.284043D-02
8	1.749198D-02	1.680713D-02	1.724037D-02	1.636039D-02	2.024880D-02	1.861715D-02	1.815498D-02
9	1.453181D-02	1.396286D-02	1.432278D-02	1.359171D-02	1.682209D-02	1.546657D-02	1.508251D-02

	8 LONYZ	9 SPKGRA	10 PMPCON	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
1	3.535406D-02	3.324904D-02	3.858762D-02	3.374009D-02	3.279552D-02	2.996682D-02	2.863662D-02
2	2.118986D-02	1.992820D-02	2.312793D-02	2.022251D-02	1.965637D-02	1.796096D-02	1.716369D-02
3	2.219141D-02	2.087011D-02	2.422109D-02	2.117834D-02	2.058544D-02	1.880989D-02	1.797494D-02
4	2.006736D-02	1.887253D-02	2.190276D-02	1.915125D-02	1.861510D-02	1.700950D-02	1.625446D-02
5	1.696087D-02	1.595101D-02	1.851215D-02	1.618658D-02	1.573343D-02	1.437638D-02	1.373823D-02
6	1.537904D-02	1.446335D-02	1.678564D-02	1.467696D-02	1.426607D-02	1.303558D-02	1.245695D-02
7	3.415017D-02	3.211683D-02	3.727362D-02	3.259116D-02	3.167875D-02	2.894637D-02	2.766147D-02
8	1.887903D-02	1.775495D-02	2.060575D-02	1.801717D-02	1.751277D-02	1.600225D-02	1.529193D-02
9	1.568413D-02	1.475028D-02	1.711864D-02	1.496812D-02	1.454908D-02	1.329419D-02	1.270407D-02

LEAST-SQUARES ESTIMATES AS T-STATISTICS - EFFECTS X VARS

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
1	108.8331	115.4163	116.5046	121.3236	90.9593	99.0726	110.1479	103.2518	107.4874	94.9502
2	-0.6437	0.5009	1.7174	0.8155	6.1613	2.1531	-0.5901	-0.1688	0.2142	-2.2119
3	0.5318	-1.0414	0.8729	-1.0191	-0.1184	-0.2745	0.5017	0.2432	-0.3250	0.5493
4	4.2401	1.6215	1.9276	-2.1349	-2.2726	0.6966	-0.4135	-0.7282	-0.2369	1.8539
5	0.2006	-1.2590	1.0148	-0.5277	2.4759	-0.0168	1.4864	1.6391	-0.9879	0.0355
6	2.6579	1.6433	1.9176	0.3941	1.9203	1.5325	0.9627	0.5444	1.4248	15.1101
7	0.3520	-0.4520	-1.2023	-0.1782	-1.1780	-0.9852	-0.1775	0.2309	0.7941	-0.9557
8	-0.2631	0.4965	-0.6178	-2.1262	0.2992	-2.1925	-0.0869	0.9541	-1.4257	-0.2587
9	-6.7741	-5.8500	-5.0893	-3.4447	-3.4994	-6.4711	-1.3725	-0.6473	-4.8312	-3.0818

	11	12	13	14

	EZCOMP	CLRPIC	NOTAMS	HRLJP
1	112.3222	109.1022	134.4750	150.6825
2	-0.2536	1.3580	1.4483	-2.1352
3	0.5972	-1.1584	0.8542	1.2540
4	0.7268	-0.6309	2.9642	4.4307
5	-2.0973	-1.0392	-1.2975	-3.3879
6	2.1631	1.8491	1.1966	2.5107
7	-0.7523	-0.0612	0.5735	2.5777
8	-1.3493	-1.3173	-1.1603	-3.1672
9	-6.4464	-4.8205	-5.2235	-7.4707

DEGREES OF FREEDOM = 4289.

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 NESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
1	3.591247	3.566875	3.769256	3.585917	3.518154	3.355675	3.745896	3.689495	3.500649	3.827029
2	3.788129	3.730241	3.915042	3.679556	3.635889	3.555847	3.787299	3.709801	3.643171	3.932542
3	3.600451	3.550187	3.790558	3.655488	3.536038	3.437311	3.749053	3.653470	3.551274	3.838104
4	3.797332	3.713552	3.936344	3.749128	3.623774	3.637483	3.790456	3.673776	3.693796	3.943617
5	3.568972	3.594357	3.844245	3.596465	3.604449	3.422034	3.757554	3.673721	3.449638	3.898276
6	3.765854	3.757723	3.990032	3.690104	3.722184	3.622205	3.798957	3.694028	3.592160	4.003789
7	3.578176	3.577669	3.865547	3.666036	3.592333	3.503670	3.760710	3.637696	3.500263	3.909350
8	3.775057	3.741035	4.011333	3.759676	3.710069	3.703841	3.802114	3.658002	3.642785	4.014864
9	3.515503	3.521877	3.715395	3.575413	3.454805	3.309193	3.717422	3.672749	3.459435	3.319765
10	3.712384	3.685242	3.861181	3.669052	3.572540	3.509365	3.758826	3.693055	3.601956	3.425278
11	3.524706	3.505189	3.736696	3.644985	3.442689	3.390829	3.720579	3.636724	3.510059	3.330840
12	3.721588	3.668554	3.892483	3.738624	3.560425	3.591001	3.761982	3.657030	3.652581	3.436353
13	3.493228	3.549359	3.790384	3.585961	3.541099	3.375552	3.729080	3.656976	3.408424	3.391012
14	3.690109	3.712724	3.936170	3.679600	3.658835	3.575723	3.770483	3.677282	3.550946	3.496525
15	3.502431	3.532671	3.811686	3.655532	3.528984	3.457188	3.732237	3.620951	3.459049	3.432387
16	3.699313	3.696036	3.957472	3.749172	3.646720	3.657359	3.773640	3.641257	3.601570	3.507600
17	3.584949	3.604896	3.737820	3.601430	3.428073	3.356237	3.697409	3.633894	3.532164	3.825715
18	3.781830	3.768262	3.883607	3.695069	3.545809	3.556408	3.738812	3.654200	3.674686	3.931228
19	3.594152	3.588208	3.759122	3.671001	3.415958	3.437873	3.700566	3.597869	3.582789	3.836790
20	3.791033	3.751573	3.904909	3.764641	3.533694	3.638044	3.741969	3.618175	3.725310	3.942303
21	3.562674	3.632378	3.812810	3.611978	3.514368	3.422595	3.709066	3.618120	3.481153	3.896962
22	3.759555	3.795744	3.958596	3.705617	3.632104	3.622767	3.750470	3.638427	3.623675	4.002475
23	3.571877	3.615690	3.834111	3.681549	3.502253	3.504231	3.712223	3.582095	3.531778	3.908036
24	3.768758	3.779055	3.979898	3.775189	3.619989	3.704403	3.753626	3.602401	3.674300	4.013550
25	3.509204	3.559898	3.683959	3.590926	3.364724	3.309755	3.668935	3.617148	3.490949	3.318451
26	3.706086	3.723263	3.829746	3.684566	3.482460	3.509926	3.710338	3.637455	3.633471	3.423964
27	3.518408	3.543210	3.705261	3.660498	3.352609	3.391391	3.672092	3.581123	3.541574	3.329526
28	3.715289	3.706575	3.851048	3.754137	3.470344	3.591562	3.713495	3.601429	3.684096	3.435339
29	3.486930	3.587380	3.758948	3.601474	3.451019	3.376113	3.680593	3.601375	3.439938	3.389698
30	3.683811	3.750745	3.904735	3.695113	3.568755	3.576285	3.721996	3.621681	3.582460	3.495211
31	3.496133	3.570692	3.780250	3.671046	3.438904	3.457749	3.683750	3.565350	3.490563	3.400773
32	3.693014	3.734057	3.926037	3.764685	3.556639	3.657921	3.725153	3.585656	3.633085	3.506286
33	3.433576	3.508940	3.698607	3.660169	3.615984	3.328106	3.761856	3.718723	3.509592	3.745819
34	3.630457	3.672305	3.844393	3.753808	3.733719	3.528278	3.803259	3.739029	3.652114	3.851332
35	3.442779	3.492252	3.719939	3.729741	3.603868	3.409742	3.765013	3.682697	3.560217	3.756393
36	3.639661	3.655617	3.865695	3.823380	3.721604	3.609914	3.806416	3.703003	3.702739	3.862407
37	3.411301	3.536422	3.773596	3.670717	3.702278	3.394465	3.773514	3.702949	3.458581	3.817065

38	3.608182	3.699787	3.919382	3.764356	3.820014	3.594636	3.814917	3.723255	3.601103	3.922579
39	3.420504	3.519734	3.794898	3.740288	3.690163	3.476101	3.776671	3.666924	3.509206	3.828140
40	3.617386	3.683099	3.940684	3.833928	3.807899	3.676272	3.818074	3.687230	3.651728	3.933653
41	3.357832	3.463941	3.644745	3.649665	3.552634	3.281624	3.733383	3.701977	3.468377	3.238555
42	3.554713	3.627307	3.790532	3.743305	3.670370	3.481796	3.774786	3.722283	3.610899	3.344068
43	3.367035	3.447253	3.666047	3.719237	3.540519	3.363260	3.736539	3.665952	3.519002	3.249630
44	3.563916	3.610618	3.811834	3.812876	3.658255	3.563432	3.777943	3.686258	3.661524	3.355143
45	3.335557	3.491423	3.719735	3.660213	3.638929	3.347983	3.745040	3.686204	3.417366	3.309802
46	3.532438	3.654789	3.865521	3.753852	3.756665	3.548154	3.786443	3.706510	3.559888	3.415315
47	3.344760	3.474735	3.741037	3.729785	3.626814	3.429619	3.748197	3.650178	3.467991	3.320876
48	3.541641	3.638101	3.886823	3.823424	3.744550	3.629790	3.789600	3.670484	3.610513	3.426393
49	3.427277	3.546961	3.667171	3.675682	3.525903	3.328668	3.713369	3.663122	3.541106	3.744505
50	3.624159	3.710326	3.812958	3.769322	3.643639	3.528839	3.754772	3.683428	3.683628	3.850018

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 DROSAT	5 SUPDEC	6 MESLEV	7 EZUNO	8 LONYZ	9 SPKGRA	10 PMPCON
51	3.436481	3.530272	3.688473	3.745254	3.513788	3.410304	3.716526	3.627096	3.591731	3.755579
52	3.633362	3.593638	3.834260	3.838893	3.631523	3.610475	3.757929	3.647402	3.734253	3.851393
53	3.405002	3.574443	3.742161	3.686230	3.612198	3.395026	3.725027	3.647348	3.490095	3.815751
54	3.601884	3.737808	3.887947	3.779869	3.729934	3.595198	3.766430	3.667654	3.632617	3.921265
55	3.414206	3.557755	3.763462	3.755802	3.600083	3.476662	3.728183	3.611323	3.540720	3.826826
56	3.611087	3.721120	3.939249	3.849441	3.717818	3.676834	3.769587	3.631629	3.683242	3.932339
57	3.351533	3.501962	3.613310	3.665178	3.462554	3.282186	3.684895	3.646376	3.499892	3.237241
58	3.548414	3.665328	3.759097	3.758818	3.580290	3.482357	3.726298	3.666682	3.642414	3.342754
59	3.360735	3.485274	3.634612	3.734750	3.450439	3.363822	3.688052	3.610351	3.550517	3.248316
60	3.557618	3.648639	3.780399	3.828389	3.568174	3.563993	3.729455	3.630657	3.693039	3.353829
61	3.329258	3.529444	3.688299	3.675726	3.548849	3.348544	3.696553	3.630603	3.448881	3.308488
62	3.526139	3.592810	3.834086	3.769366	3.666584	3.548716	3.737956	3.650909	3.591403	3.414301
63	3.338461	3.512756	3.739601	3.745298	3.536733	3.430180	3.699710	3.594577	3.499506	3.319562
64	3.535343	3.676121	3.855388	3.838937	3.654469	3.630352	3.741113	3.614883	3.642028	3.425076
65	3.569381	3.608023	3.733875	3.625113	3.523792	3.367692	3.724484	3.678700	3.514213	3.800420
66	3.766262	3.771388	3.879652	3.718752	3.641527	3.567863	3.765888	3.699006	3.656735	3.905934
67	3.578584	3.591335	3.755177	3.694685	3.511676	3.449328	3.727641	3.642675	3.564838	3.811495
68	3.775465	3.754700	3.900963	3.788324	3.629412	3.649499	3.769044	3.662981	3.737360	3.917008
69	3.547106	3.635505	3.808864	3.635661	3.610086	3.434050	3.736142	3.662927	3.463202	3.871567
70	3.743987	3.798870	3.954651	3.729300	3.727822	3.634222	3.777545	3.683233	3.605724	3.977180
71	3.556309	3.618817	3.830166	3.705232	3.597971	3.515686	3.739299	3.626901	3.513827	3.882742
72	3.753190	3.782182	3.975953	3.798872	3.715707	3.715858	3.780702	3.647208	3.656349	3.988255
73	3.493636	3.563025	3.680014	3.616609	3.460442	3.321210	3.696011	3.661955	3.472998	3.293156
74	3.690518	3.726390	3.825800	3.708249	3.578178	3.521381	3.737414	3.682261	3.615520	3.398670
75	3.502840	3.546337	3.701316	3.684181	3.448327	3.402846	3.699158	3.625929	3.523623	3.304231
76	3.699721	3.709702	3.847102	3.777820	3.566063	3.603017	3.740571	3.646236	3.666145	3.409745
77	3.471361	3.590507	3.755003	3.625157	3.546737	3.387568	3.707668	3.646181	3.421988	3.364403
78	3.668243	3.753872	3.900790	3.718796	3.664473	3.587740	3.749071	3.666487	3.564509	3.469917
79	3.480565	3.573819	3.776305	3.694729	3.534622	3.469204	3.710825	3.610156	3.472612	3.375478
80	3.677446	3.737184	3.922092	3.788368	3.652357	3.669375	3.752228	3.630462	3.615134	3.480991
81	3.563082	3.646044	3.702440	3.640626	3.433711	3.368253	3.675997	3.623099	3.545728	3.799106
82	3.759963	3.809409	3.848226	3.734265	3.551447	3.568425	3.717400	3.643405	3.688249	3.934520
83	3.572285	3.629356	3.723742	3.710198	3.421596	3.449889	3.679154	3.587074	3.596352	3.810181
84	3.769167	3.792721	3.869528	3.803837	3.539331	3.650061	3.720557	3.607380	3.738874	3.915694
85	3.540807	3.573526	3.777429	3.651174	3.520006	3.434611	3.687655	3.607326	3.494717	3.870353
86	3.737688	3.836891	3.923216	3.744813	3.637742	3.634783	3.729058	3.627632	3.637239	3.975866
87	3.550010	3.656838	3.798731	3.720746	3.507891	3.516247	3.690812	3.571301	3.545342	3.881428
88	3.746892	3.820203	3.944517	3.814385	3.625626	3.716419	3.732215	3.591607	3.687863	3.986941
89	3.487338	3.601046	3.648579	3.630122	3.370362	3.321771	3.647524	3.606354	3.504513	3.291842

90	3.684219	3.764411	3.794365	3.723762	3.488097	3.521943	3.688927	3.626660	3.647035	3.397356
91	3.496541	3.584358	3.669880	3.699694	3.358246	3.403407	3.650680	3.570328	3.555138	3.302917
92	3.693422	3.747723	3.815667	3.793333	3.475982	3.603579	3.692084	3.590635	3.697660	3.438431
93	3.465063	3.628528	3.723568	3.640670	3.496657	3.388129	3.659181	3.590580	3.453502	3.363089
94	3.661944	3.791893	3.869354	3.734310	3.574392	3.588301	3.700584	3.610886	3.596024	3.468603
95	3.474266	3.611840	3.744870	3.710242	3.444541	3.469765	3.662338	3.554555	3.504127	3.374164
96	3.671147	3.775205	3.890656	3.803881	3.562277	3.669937	3.703741	3.574861	3.646649	3.479677
97	3.411709	3.550087	3.663226	3.699365	3.621621	3.340123	3.740445	3.707928	3.523156	3.719210
98	3.608590	3.713452	3.809013	3.793005	3.739357	3.540294	3.781848	3.728234	3.665678	3.824723
99	3.420912	3.533399	3.684528	3.768937	3.609506	3.421759	3.743601	3.671903	3.573781	3.730285
100	3.617794	3.696764	3.830314	3.862576	3.727242	3.621930	3.785005	3.692209	3.716302	3.835798

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 DRDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
101	3.389434	3.577569	3.738215	3.709913	3.737916	3.406481	3.752102	3.692154	3.472145	3.790457
102	3.586315	3.740934	3.884002	3.803552	3.825652	3.606653	3.793505	3.712461	3.614667	3.895970
103	3.398637	3.560881	3.759517	3.779485	3.695801	3.488117	3.755259	3.656129	3.522770	3.891531
104	3.595519	3.724246	3.905304	3.873124	3.813536	3.688289	3.796662	3.676435	3.665292	3.907045
105	3.335965	3.505089	3.609365	3.688861	3.558272	3.293641	3.711971	3.691182	3.481941	3.211946
106	3.532846	3.668454	3.755151	3.782501	3.676008	3.493812	3.753374	3.711489	3.624463	3.317459
107	3.345168	3.488401	3.630667	3.758433	3.546157	3.375277	3.715128	3.655157	3.532566	3.223021
108	3.542049	3.651766	3.776453	3.852072	3.663892	3.575448	3.756531	3.675463	3.675088	3.328534
109	3.313690	3.532571	3.684354	3.699409	3.644567	3.359999	3.723628	3.675409	3.430930	3.283193
110	3.510571	3.695936	3.830141	3.793049	3.762303	3.560171	3.765031	3.695715	3.573452	3.388706
111	3.322893	3.515883	3.705656	3.768981	3.632452	3.441635	3.726785	3.639384	3.481555	3.294268
112	3.519774	3.679248	3.851442	3.862620	3.750187	3.641806	3.768188	3.659690	3.624077	3.399781
113	3.405410	3.588108	3.531791	3.714878	3.531541	3.340684	3.691957	3.652327	3.554670	3.717896
114	3.602292	3.751473	3.777577	3.808518	3.649276	3.540856	3.733361	3.672633	3.697192	3.823409
115	3.414614	3.571420	3.653092	3.784450	3.519425	3.422320	3.695114	3.616302	3.605295	3.728971
116	3.611495	3.734785	3.798879	3.878089	3.637161	3.622492	3.736517	3.636608	3.747817	3.834484
117	3.383135	3.615590	3.706780	3.725426	3.617836	3.407042	3.703615	3.636554	3.503659	3.789143
118	3.580017	3.778955	3.852566	3.819066	3.735571	3.607214	3.745018	3.656860	3.646181	3.894656
119	3.392339	3.598902	3.728082	3.794998	3.605720	3.488678	3.706772	3.600528	3.554284	3.830217
120	3.589220	3.762267	3.873868	3.888637	3.723456	3.688850	3.748175	3.620834	3.696806	3.905731
121	3.329666	3.543110	3.577929	3.704374	3.468192	3.294202	3.663484	3.635581	3.513456	3.210632
122	3.526547	3.706475	3.723716	3.798014	3.585927	3.494374	3.704887	3.655888	3.655978	3.316146
123	3.338870	3.526422	3.599231	3.773946	3.456076	3.375838	3.666641	3.599556	3.564080	3.221757
124	3.535751	3.689787	3.745018	3.867586	3.573812	3.576010	3.708044	3.619862	3.706602	3.327220
125	3.307391	3.570592	3.652919	3.714922	3.554486	3.360560	3.675141	3.613808	3.462445	3.281879
126	3.504273	3.733957	3.798705	3.808562	3.672222	3.560732	3.716544	3.640114	3.604967	3.387392
127	3.316595	3.553904	3.674221	3.784494	3.542371	3.442196	3.678298	3.583783	3.513070	3.292954
128	3.513476	3.717269	3.820007	3.878133	3.660107	3.642368	3.719701	3.604089	3.655592	3.398467
129	3.616525	3.547978	3.702789	3.555965	3.238093	3.265695	3.769946	3.696649	3.492113	3.929340
130	3.813406	3.711343	3.848576	3.649605	3.355828	3.465866	3.811349	3.716955	3.634635	4.034854
131	3.625728	3.531290	3.724091	3.625537	3.225977	3.347330	3.773103	3.660624	3.542738	3.940415
132	3.822609	3.694655	3.869877	3.719177	3.343713	3.547502	3.814506	3.680930	3.685260	4.045928
133	3.594250	3.575460	3.777778	3.566513	3.324387	3.332053	3.781603	3.680876	3.441133	4.000587
134	3.791131	3.738825	3.923565	3.660153	3.442123	3.532224	3.823006	3.701182	3.583625	4.106100
135	3.603453	3.558772	3.799080	3.636085	3.312272	3.413689	3.784760	3.644850	3.491727	4.011662
136	3.800334	3.722137	3.944867	3.729724	3.430008	3.613860	3.826163	3.665156	3.634249	4.117175
137	3.540781	3.502980	3.648928	3.545462	3.174743	3.219212	3.741472	3.679904	3.450899	3.422077
138	3.737662	3.666345	3.794714	3.639101	3.292479	3.419384	3.782875	3.700210	3.593421	3.527590
139	3.549984	3.486292	3.670230	3.615033	3.162628	3.300848	3.744629	3.643878	3.531524	3.433151
140	3.746865	3.649657	3.816016	3.708673	3.280364	3.501020	3.786032	3.664184	3.644046	3.538665
141	3.518506	3.530462	3.723917	3.556010	3.261038	3.285571	3.753129	3.664130	3.399888	3.493323

142	3.715387	3.593827	3.869704	3.649649	3.378774	3.485742	3.794532	3.684436	3.542410	3.598337
143	3.527709	3.513774	3.745219	3.625581	3.248923	3.367207	3.756286	3.628105	3.450513	3.504398
144	3.724590	3.677139	3.891005	3.719221	3.366659	3.567378	3.797689	3.648411	3.593035	3.609911
145	3.610226	3.585999	3.671354	3.571479	3.148012	3.266256	3.721459	3.641048	3.523628	3.928026
146	3.807107	3.749364	3.817140	3.665118	3.265748	3.466428	3.762862	3.661354	3.666150	4.033540
147	3.619430	3.569311	3.692655	3.641050	3.135897	3.347892	3.724615	3.605023	3.574253	3.939101
148	3.816311	3.732676	3.838442	3.734690	3.253632	3.548063	3.766018	3.625329	3.716775	4.044614
149	3.587951	3.513481	3.746343	3.582026	3.234307	3.332614	3.733116	3.625275	3.472617	3.999273
150	3.784833	3.776846	3.892129	3.675666	3.352043	3.532786	3.774519	3.645581	3.615139	4.104786

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
151	3.597155	3.596793	3.757645	3.651598	3.222192	3.414250	3.736273	3.589249	3.523242	4.010348
152	3.794036	3.760158	3.913431	3.745238	3.339927	3.614422	3.777676	3.609556	3.665764	4.115861
153	3.534482	3.541001	3.617492	3.560975	3.084663	3.219774	3.692985	3.624303	3.482413	3.420763
154	3.731363	3.704366	3.763279	3.654614	3.202399	3.419946	3.734388	3.644609	3.624935	3.526276
155	3.543685	3.524313	3.638794	3.630546	3.072548	3.301410	3.696142	3.588277	3.533038	3.431837
156	3.740567	3.687678	3.784581	3.724186	3.190283	3.501581	3.737545	3.608584	3.675560	3.537351
157	3.512207	3.568483	3.592482	3.571523	3.170958	3.286132	3.704642	3.608529	3.431403	3.492009
158	3.709088	3.731848	3.838268	3.665162	3.288693	3.486304	3.746045	3.628835	3.573924	3.597523
159	3.521410	3.551795	3.713784	3.641094	3.158842	3.367768	3.707799	3.572504	3.482027	3.503084
160	3.718292	3.715160	3.859570	3.734734	3.276578	3.567940	3.749202	3.592810	3.624549	3.538597
161	3.458853	3.490042	3.532140	3.630218	3.335922	3.238126	3.785906	3.725877	3.501056	3.848130
162	3.655735	3.653407	3.777926	3.723857	3.453658	3.438297	3.827309	3.746183	3.643578	3.953643
163	3.468057	3.473354	3.653442	3.699789	3.323807	3.319761	3.789053	3.689852	3.551681	3.859235
164	3.664938	3.636719	3.799228	3.793429	3.441543	3.519933	3.830466	3.710158	3.694203	3.964718
165	3.436578	3.517524	3.707129	3.640766	3.422217	3.304484	3.797563	3.710103	3.450045	3.919377
166	3.633460	3.680889	3.852916	3.734405	3.539953	3.504655	3.838966	3.730409	3.592567	4.024890
167	3.445782	3.500836	3.728431	3.710337	3.410102	3.386120	3.800720	3.674078	3.530670	3.930452
168	3.642663	3.664201	3.874218	3.803977	3.527838	3.586291	3.842123	3.694384	3.643192	4.035965
169	3.383139	3.445044	3.578279	3.619714	3.272573	3.191643	3.757432	3.709131	3.459842	3.340866
170	3.579990	3.508409	3.724065	3.713353	3.390309	3.391815	3.798835	3.729437	3.602364	3.446380
171	3.392312	3.428356	3.599581	3.689285	3.260458	3.273279	3.760589	3.673106	3.510466	3.351941
172	3.589194	3.591721	3.745367	3.782925	3.378193	3.473451	3.801992	3.693412	3.652988	3.457454
173	3.360834	3.472526	3.653268	3.630262	3.358868	3.258002	3.769089	3.693358	3.408831	3.412113
174	3.557715	3.635891	3.799055	3.723901	3.476604	3.458173	3.810493	3.713664	3.551353	3.517626
175	3.370037	3.455838	3.674570	3.699833	3.346753	3.339638	3.772246	3.657333	3.459456	3.423188
176	3.566919	3.619203	3.820356	3.793473	3.464488	3.539809	3.813649	3.677539	3.601978	3.528701
177	3.452555	3.528063	3.500735	3.645731	3.245842	3.238687	3.737419	3.670276	3.532571	3.846816
178	3.649436	3.691428	3.746491	3.739370	3.363578	3.438859	3.778822	3.690582	3.675093	3.952329
179	3.461758	3.511375	3.622006	3.715302	3.233727	3.320323	3.740576	3.634251	3.583196	3.857891
180	3.658639	3.674740	3.767793	3.808942	3.351462	3.520494	3.781979	3.654557	3.725718	3.953404
181	3.430280	3.555545	3.675694	3.656279	3.332137	3.305045	3.749076	3.654502	3.481560	3.918063
182	3.627161	3.718910	3.821480	3.749918	3.449872	3.505217	3.790479	3.674809	3.624082	4.023576
183	3.439483	3.538957	3.696996	3.725850	3.320021	3.386681	3.752233	3.618477	3.532185	3.929138
184	3.636364	3.702222	3.842782	3.819490	3.437757	3.586853	3.793636	3.638783	3.674707	4.034651
185	3.376810	3.483065	3.546843	3.635227	3.182493	3.192205	3.708945	3.653530	3.491356	3.339552
186	3.573692	3.546430	3.692630	3.728866	3.300228	3.392376	3.750348	3.673837	3.633878	3.445066
187	3.386014	3.466377	3.558145	3.704799	3.170377	3.273841	3.712102	3.617505	3.541981	3.350627
188	3.582895	3.629742	3.713932	3.798438	3.288113	3.474012	3.753505	3.637811	3.684503	3.456140
189	3.354535	3.510547	3.621833	3.645775	3.268788	3.258563	3.720602	3.637757	3.440345	3.410799
190	3.551417	3.573912	3.757619	3.739414	3.386523	3.458735	3.762005	3.658063	3.582867	3.516312
191	3.363739	3.493859	3.643135	3.715347	3.256672	3.340199	3.723759	3.601732	3.490970	3.421874
192	3.560620	3.657224	3.788921	3.808986	3.374408	3.540371	3.765162	3.622038	3.633492	3.527387
193	3.594658	3.589126	3.667408	3.595162	3.243730	3.277711	3.748534	3.685855	3.505677	3.932732

194	3.791539	3.752491	3.813195	3.688801	3.361466	3.477882	3.789937	3.706161	3.648199	4.008245
195	3.603861	3.572438	3.688710	3.664733	3.231615	3.359347	3.751691	3.649829	3.556302	3.913806
196	3.800743	3.735803	3.834497	3.758373	3.349351	3.559518	3.793094	3.670135	3.698824	4.319320
197	3.572383	3.616608	3.742397	3.605710	3.330025	3.344069	3.760191	3.670081	3.454666	3.973978
198	3.769264	3.779973	3.888184	3.699349	3.447761	3.544241	3.801595	3.690387	3.597188	4.079492
199	3.581586	3.599920	3.763699	3.675281	3.317910	3.425705	3.763348	3.634056	3.505291	3.935053
200	3.778468	3.763285	3.909486	3.768921	3.435645	3.625877	3.804751	3.654362	3.647813	4.090567

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUNO	8 LONYZ	9 SPKGRA	10 PMPCON
201	3.518914	3.544128	3.613547	3.584658	3.180381	3.231229	3.720060	3.669109	3.464463	3.395468
202	3.715795	3.707493	3.759334	3.678297	3.298117	3.431400	3.761463	3.689415	3.606985	3.500981
203	3.528117	3.527439	3.634849	3.654229	3.168266	3.312865	3.723217	3.633084	3.515088	3.406543
204	3.724998	3.690805	3.780635	3.747869	3.286001	3.513036	3.764620	3.653390	3.657610	3.512056
205	3.496639	3.571610	3.688536	3.595206	3.266676	3.297587	3.731718	3.653336	3.413452	3.466715
206	3.693520	3.734975	3.834323	3.688845	3.384412	3.497759	3.773121	3.673642	3.555974	3.572228
207	3.505842	3.554921	3.709838	3.664777	3.254561	3.379223	3.734875	3.617310	3.464077	3.477789
208	3.702723	3.718287	3.855625	3.758417	3.372296	3.579395	3.776278	3.637616	3.606599	3.583303
209	3.588359	3.627147	3.635973	3.610675	3.153650	3.278272	3.700047	3.630254	3.537192	3.901418
210	3.785241	3.790512	3.781759	3.704314	3.271385	3.478444	3.741450	3.650560	3.679714	4.006931
211	3.597563	3.610459	3.657275	3.680246	3.141534	3.359908	3.703204	3.594228	3.587817	3.912493
212	3.794444	3.773824	3.803061	3.773886	3.259270	3.560080	3.744607	3.614534	3.730339	4.018006
213	3.566084	3.654629	3.710962	3.621223	3.239945	3.344630	3.711704	3.614480	3.486181	3.972664
214	3.762966	3.817934	3.856749	3.714862	3.357680	3.544802	3.753107	3.634786	3.628733	4.078178
215	3.575288	3.637941	3.732264	3.690794	3.227829	3.426266	3.714861	3.578455	3.536806	3.983739
216	3.772169	3.801306	3.878051	3.784434	3.345565	3.626438	3.756264	3.598761	3.679328	4.089253
217	3.512615	3.582148	3.582112	3.600171	3.090301	3.231790	3.671573	3.613508	3.495977	3.394154
218	3.709496	3.745514	3.727898	3.693810	3.208036	3.431962	3.712976	3.633814	3.638499	3.499667
219	3.521818	3.565460	3.603414	3.669743	3.078185	3.313426	3.674730	3.577483	3.546602	3.405229
220	3.718700	3.728826	3.749200	3.763382	3.195921	3.513598	3.716133	3.597789	3.689124	3.510742
221	3.490340	3.609631	3.657101	3.610719	3.176595	3.298148	3.683230	3.597735	3.444966	3.465401
222	3.687221	3.772996	3.802888	3.704358	3.294331	3.498320	3.724634	3.618041	3.587488	3.570914
223	3.499543	3.592942	3.678403	3.680290	3.164480	3.379784	3.686387	3.561739	3.495591	3.476475
224	3.696425	3.756308	3.824189	3.773930	3.282216	3.579956	3.727790	3.582015	3.638113	3.581989
225	3.436986	3.531190	3.596759	3.669414	3.341560	3.250142	3.764494	3.715082	3.514620	3.821521
226	3.633868	3.694555	3.742546	3.763053	3.459296	3.450313	3.805897	3.735388	3.657142	3.927035
227	3.446190	3.514502	3.618061	3.738985	3.329445	3.331778	3.767651	3.679057	3.565245	3.832596
228	3.643071	3.677867	3.763848	3.832625	3.447180	3.531949	3.809054	3.699363	3.707767	3.938109
229	3.414712	3.558672	3.671748	3.679962	3.427855	3.316500	3.776152	3.699309	3.463609	3.892768
230	3.611593	3.722037	3.817535	3.773601	3.545591	3.516672	3.817555	3.719615	3.606131	3.998281
231	3.423915	3.541984	3.693050	3.749533	3.415740	3.398136	3.779308	3.663283	3.514234	3.903843
232	3.620796	3.705349	3.838837	3.843173	3.533475	3.598308	3.820712	3.683590	3.656756	4.009356
233	3.361242	3.486192	3.542898	3.658910	3.278211	3.203660	3.736020	3.698337	3.473405	3.314258
234	3.558124	3.549557	3.688685	3.752550	3.395946	3.403831	3.777423	3.718643	3.615927	3.419771
235	3.370446	3.469504	3.564200	3.728482	3.266095	3.285296	3.739177	3.662311	3.524030	3.325332
236	3.567327	3.632869	3.709986	3.822121	3.383831	3.485467	3.780580	3.682617	3.666552	3.430846
237	3.338957	3.513674	3.617887	3.669458	3.364506	3.270018	3.747678	3.682563	3.422395	3.395534
238	3.535849	3.677039	3.753674	3.763097	3.432241	3.470190	3.789081	3.702869	3.564916	3.491018
239	3.348171	3.496986	3.639189	3.739030	3.352390	3.351654	3.750835	3.646538	3.473019	3.396579
240	3.545352	3.550351	3.784976	3.832669	3.470126	3.551826	3.792238	3.666844	3.615541	3.532392
241	3.430688	3.569211	3.555324	3.684927	3.251480	3.250703	3.716007	3.659481	3.546135	3.820207
242	3.627569	3.732576	3.711110	3.778566	3.369215	3.450875	3.757410	3.679787	3.688656	3.925721
243	3.439891	3.552523	3.586626	3.754499	3.239364	3.332339	3.719164	3.623456	3.596759	3.831282
244	3.636773	3.715888	3.732412	3.848138	3.357100	3.532511	3.760567	3.643762	3.739281	3.936796
245	3.408413	3.596693	3.640313	3.695475	3.337774	3.317061	3.727664	3.643708	3.495124	3.891454

246	3.605294	3.760058	3.786100	3.789114	3.455510	3.517233	3.769057	3.664014	3.637646	3.996967
247	3.417616	3.580005	3.551515	3.765046	3.325659	3.398697	3.730821	3.607682	3.545749	3.932529
248	3.614498	3.743370	3.807402	3.858686	3.443395	3.598869	3.772224	3.627989	3.688270	4.008042
249	3.354944	3.524213	3.511463	3.674423	3.188130	3.204221	3.687533	3.642735	3.504920	3.312944
250	3.551825	3.687578	3.657249	3.768063	3.305866	3.404393	3.728936	3.663042	3.647442	3.418457

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
251	3.364147	3.507525	3.532765	3.743995	3.176015	3.285857	3.690590	3.606710	3.555545	3.324018
252	3.561028	3.670890	3.578551	3.837634	3.293751	3.486029	3.732093	3.627017	3.698067	3.429532
253	3.332669	3.551695	3.586452	3.684971	3.274425	3.270579	3.699191	3.626962	3.453909	3.384190
254	3.529550	3.715060	3.732239	3.778611	3.392161	3.470751	3.740594	3.647268	3.596431	3.489704
255	3.341872	3.535007	3.507754	3.754543	3.262310	3.352215	3.702347	3.590937	3.504534	3.395265
256	3.538753	3.698372	3.753540	3.848182	3.330046	3.552387	3.743751	3.611243	3.647056	3.500778

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
1	3.663678	3.484052	4.034530	4.285647
2	3.856660	3.624320	4.200002	4.475463
3	3.712301	3.530191	4.071665	4.382512
4	3.905282	3.670459	4.237138	4.572328
5	3.712715	3.487928	4.001327	4.143039
6	3.905696	3.628197	4.166800	4.332855
7	3.761337	3.534067	4.038463	4.239904
8	3.954318	3.674336	4.203935	4.429720
9	3.600184	3.431294	4.003332	4.223096
10	3.793155	3.571562	4.168805	4.412911
11	3.648807	3.477433	4.040458	4.319960
12	3.841788	3.617701	4.205940	4.509776
13	3.649220	3.435170	3.970130	4.080487
14	3.842202	3.575439	4.135602	4.270303
15	3.697843	3.481309	4.007266	4.177352
16	3.890824	3.621578	4.172738	4.367168
17	3.731573	3.516751	4.071838	4.378734
18	3.924555	3.557019	4.237310	4.568550
19	3.780196	3.562890	4.108974	4.475599
20	3.973177	3.703158	4.274446	4.665415
21	3.780509	3.520627	4.038635	4.236126
22	3.973591	3.660896	4.204108	4.425942
23	3.829232	3.566766	4.075771	4.332991
24	4.022213	3.707035	4.241243	4.522806
25	3.668079	3.463993	4.040541	4.316182
26	3.861060	3.604261	4.206113	4.505998
27	3.716701	3.510132	4.077776	4.413047
28	3.909683	3.550400	4.243249	4.602863
29	3.717115	3.467869	4.007438	4.173574
30	3.910096	3.608138	4.172910	4.363390
31	3.765737	3.514008	4.044574	4.270439
32	3.958719	3.654277	4.210046	4.460255

33	3.635839	3.507539	3.933689	4.141610
34	3.828820	3.647808	4.099161	4.331425
35	3.684462	3.553678	3.970825	4.238475
36	3.877443	3.693947	4.136297	4.428290
37	3.684875	3.511415	3.900487	3.999002
38	3.877855	3.651684	4.065959	4.188817
39	3.733498	3.557554	3.937623	4.095866
40	3.926479	3.697823	4.103095	4.285682
41	3.572345	3.454781	3.902492	4.079058
42	3.765326	3.595050	4.067964	4.268874
43	3.620967	3.500920	3.939628	4.175923
44	3.813949	3.641189	4.105100	4.365738
45	3.621381	3.458657	3.869290	3.936450
46	3.814362	3.598926	4.034762	4.126265
47	3.670003	3.504796	3.906425	4.033315
48	3.862985	3.645065	4.071898	4.223130
49	3.703734	3.540238	3.970997	4.234697
50	3.896715	3.680507	4.136469	4.424512

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
51	3.752356	3.586377	4.008133	4.331561
52	3.945338	3.726646	4.173605	4.521377
53	3.752770	3.544114	3.937795	4.092088
54	3.945751	3.684383	4.103267	4.281904
55	3.801392	3.590253	3.974931	4.188953
56	3.994374	3.730522	4.140403	4.378769
57	3.640239	3.487480	3.939800	4.172145
58	3.833221	3.627749	4.105272	4.361961
59	3.688862	3.533619	3.976936	4.269010
60	3.881843	3.673888	4.142408	4.458825
61	3.689276	3.491356	3.906598	4.029537
62	3.882257	3.631625	4.072070	4.219352
63	3.737898	3.537495	3.943733	4.126401
64	3.930879	3.677764	4.109206	4.316217
65	3.638384	3.531746	4.002395	4.240565
66	3.831366	3.672014	4.167867	4.430380
67	3.687007	3.577885	4.039531	4.337430
68	3.879988	3.718153	4.205003	4.527245
69	3.687420	3.535622	3.969193	4.097957
70	3.880402	3.675991	4.134665	4.287772
71	3.736043	3.581761	4.006329	4.194821
72	3.929024	3.722030	4.171801	4.384637
73	3.574890	3.478988	3.971198	4.178013
74	3.767871	3.619257	4.136670	4.367829
75	3.623513	3.525127	4.008334	4.274878
76	3.816494	3.665396	4.173806	4.464693
77	3.623926	3.482864	3.937996	4.035405
78	3.816908	3.623133	4.103468	4.225220
79	3.672549	3.529003	3.975132	4.132270
80	3.865530	3.569272	4.140604	4.322085
81	3.706279	3.564445	4.039703	4.333652
82	3.899260	3.704713	4.205175	4.523457
83	3.754902	3.610584	4.076839	4.430516
84	3.947883	3.750852	4.242311	4.620332

85	3.755315	3.568321	4.006501	4.191043
86	3.948297	3.708990	4.171973	4.380859
87	3.803938	3.514460	4.043637	4.287908
88	3.996919	3.754729	4.209109	4.477724
89	3.642785	3.511687	4.008506	4.271100
90	3.835766	3.551956	4.173978	4.460916
91	3.691407	3.557826	4.045642	4.367965
92	3.884389	3.698095	4.211114	4.557780
93	3.691821	3.515563	3.975304	4.128492
94	3.884802	3.655832	4.140776	4.318307
95	3.740443	3.561702	4.012440	4.225356
96	3.933425	3.701971	4.177912	4.415172
97	3.610545	3.555233	3.901554	4.096527
98	3.803526	3.695502	4.067027	4.286343
99	3.659168	3.601372	3.938690	4.193392
100	3.852149	3.741641	4.104162	4.383208

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLJP
101	3.659581	3.559109	3.868352	3.953919
102	3.852562	3.699378	4.033824	4.143735
103	3.708204	3.605248	3.905488	4.050784
104	3.901185	3.745517	4.070960	4.240600
105	3.547051	3.502475	3.870357	4.033975
106	3.740032	3.642744	4.035829	4.223791
107	3.595673	3.548614	3.907493	4.130840
108	3.788655	3.688883	4.072965	4.320656
109	3.596087	3.506351	3.837155	3.891367
110	3.789068	3.646620	4.002627	4.081183
111	3.644709	3.552490	3.874291	3.988232
112	3.837691	3.692759	4.039763	4.178048
113	3.678440	3.587932	3.938863	4.189614
114	3.871421	3.728201	4.104335	4.379430
115	3.727062	3.634071	3.975998	4.286479
116	3.920044	3.774340	4.141471	4.476295
117	3.727476	3.591808	3.905660	4.047006
118	3.920457	3.732077	4.071132	4.236822
119	3.776098	3.637947	3.942796	4.143871
120	3.969080	3.778216	4.108268	4.333686
121	3.614945	3.535174	3.907665	4.127062
122	3.807927	3.675443	4.073138	4.316878
123	3.663558	3.581313	3.944801	4.223927
124	3.856549	3.721582	4.110273	4.413743
125	3.663981	3.539050	3.874463	3.984454
126	3.856963	3.679319	4.039935	4.174270
127	3.712604	3.585190	3.911599	4.081319
128	3.905585	3.725458	4.077071	4.271135
129	3.673937	3.430667	3.982503	4.358943
130	3.866918	3.570935	4.147975	4.548759
131	3.722559	3.476806	4.019639	4.455808
132	3.915541	3.617074	4.185111	4.645624
133	3.722973	3.434543	3.949301	4.216335
134	3.915954	3.574812	4.114773	4.406151
135	3.771595	3.480682	3.986437	4.313200
136	3.964577	3.620951	4.151909	4.503015

137	3.610442	3.377909	3.951306	4.296391
138	3.803424	3.518178	4.116778	4.486207
139	3.659065	3.424048	3.988442	4.393256
140	3.852045	3.564317	4.153914	4.583072
141	3.659478	3.381785	3.918104	4.153783
142	3.852460	3.522054	4.083576	4.343599
143	3.708101	3.427924	3.955240	4.250648
144	3.901082	3.568193	4.120712	4.440464
145	3.741831	3.463366	4.019811	4.452030
146	3.934813	3.603634	4.185284	4.641846
147	3.790454	3.509505	4.056947	4.548895
148	3.983435	3.649773	4.222419	4.738710
149	3.790867	3.467242	3.986609	4.309422
150	3.983849	3.607511	4.152081	4.499238

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
151	3.839490	3.513381	4.023745	4.406287
152	4.032471	3.653650	4.189217	4.596102
153	3.678337	3.410608	3.988614	4.389478
154	3.871318	3.550877	4.154086	4.579294
155	3.726950	3.456747	4.025750	4.486343
156	3.919941	3.597016	4.191222	4.676159
157	3.727373	3.414484	3.955412	4.246870
158	3.920354	3.554753	4.120884	4.436686
159	3.775996	3.460623	3.992548	4.343735
160	3.968977	3.600892	4.158020	4.533550
161	3.646097	3.454154	3.881663	4.214906
162	3.839079	3.594423	4.047135	4.404721
163	3.694720	3.500293	3.918798	4.311770
164	3.887701	3.640562	4.084271	4.501586
165	3.695133	3.458030	3.848460	4.072297
166	3.888115	3.598299	4.013932	4.262113
167	3.743756	3.504169	3.885596	4.169162
168	3.936737	3.644438	4.051068	4.358978
169	3.582603	3.401396	3.850455	4.152354
170	3.775584	3.541665	4.015938	4.342170
171	3.631226	3.447535	3.887601	4.249219
172	3.824207	3.587804	4.053073	4.439034
173	3.631639	3.405272	3.817263	4.009746
174	3.824620	3.545541	3.982735	4.199561
175	3.680262	3.451411	3.854399	4.106610
176	3.873243	3.591680	4.019871	4.296426
177	3.713992	3.486853	3.918971	4.307992
178	3.906973	3.627122	4.084443	4.497808
179	3.762615	3.532992	3.956106	4.404857
180	3.955596	3.673261	4.121579	4.594673
181	3.763028	3.490729	3.885768	4.165384
182	3.956009	3.630998	4.051241	4.355200
183	3.811651	3.536868	3.922904	4.262249
184	4.004632	3.677137	4.088376	4.452065
185	3.650498	3.434095	3.887774	4.245441
186	3.843479	3.574364	4.053246	4.435256
187	3.699120	3.480234	3.924909	4.342305
188	3.892102	3.620503	4.090381	4.532121

189	3.699534	3.437971	3.854571	4.102833
190	3.892515	3.578240	4.020043	4.292648
191	3.748156	3.484111	3.891707	4.199697
192	3.941138	3.624379	4.057179	4.389513
193	3.648643	3.478361	3.950369	4.313861
194	3.841624	3.618630	4.115841	4.503676
195	3.697255	3.524500	3.987505	4.410725
196	3.890247	3.664769	4.152977	4.600541
197	3.697679	3.482237	3.917167	4.171252
198	3.890660	3.622506	4.082639	4.361068
199	3.746301	3.528376	3.954302	4.268117
200	3.939283	3.668645	4.119775	4.457933

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
201	3.585148	3.425603	3.919172	4.251309
202	3.778130	3.565872	4.084644	4.441125
203	3.633771	3.471742	3.956307	4.348174
204	3.826752	3.612011	4.121780	4.537989
205	3.634184	3.429479	3.885969	4.108701
206	3.827166	3.569748	4.051442	4.298516
207	3.682807	3.475618	3.923105	4.205565
208	3.875788	3.615887	4.088577	4.395381
209	3.716537	3.511060	3.987677	4.406947
210	3.909519	3.651329	4.153149	4.596763
211	3.765160	3.557199	4.024813	4.503812
212	3.958141	3.697468	4.190285	4.693628
213	3.765573	3.514936	3.954475	4.264339
214	3.958555	3.655205	4.119947	4.454155
215	3.814196	3.561075	3.991610	4.361204
216	4.007177	3.701344	4.157083	4.551020
217	3.653043	3.458302	3.956480	4.344396
218	3.846024	3.598571	4.121952	4.534211
219	3.701666	3.504441	3.993616	4.441260
220	3.894647	3.544710	4.159088	4.631076
221	3.702079	3.462178	3.923277	4.201788
222	3.895060	3.602447	4.088750	4.391603
223	3.750702	3.508317	3.960413	4.298652
224	3.943633	3.548586	4.125885	4.488468
225	3.620803	3.501848	3.849528	4.169823
226	3.813785	3.642117	4.015000	4.359639
227	3.669426	3.547987	3.886664	4.266688
228	3.862407	3.588256	4.052136	4.456504
229	3.669839	3.505724	3.816326	4.027215
230	3.862821	3.645993	3.981798	4.217031
231	3.718452	3.551363	3.853462	4.124080
232	3.911443	3.692132	4.018934	4.313895
233	3.557309	3.449090	3.818331	4.107271
234	3.750290	3.589359	3.983803	4.297087
235	3.605931	3.495229	3.855467	4.204136
236	3.798913	3.635498	4.020939	4.393952
237	3.606345	3.452967	3.785129	3.964663
238	3.799326	3.593235	3.950601	4.154479
239	3.654958	3.499106	3.922264	4.061528
240	3.847949	3.639374	3.987737	4.251344

241	3.688698	3.534547	3.886836	4.262910
242	3.881679	3.674816	4.052308	4.452726
243	3.737320	3.580686	3.923972	4.359775
244	3.930302	3.720955	4.089444	4.549590
245	3.737734	3.538423	3.853634	4.120302
246	3.930715	3.678692	4.019106	4.310117
247	3.786357	3.584563	3.890770	4.217167
248	3.979338	3.724831	4.056242	4.406982
249	3.625204	3.481789	3.855639	4.200358
250	3.818185	3.622058	4.021111	4.390174

ESTIMATED CELL MEANS, ALL GROUPS - CELLS X VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
251	3.673826	3.527928	3.892775	4.297223
252	3.866807	3.668197	4.058247	4.487039
253	3.674240	3.485666	3.822437	4.057750
254	3.867221	3.625934	3.987909	4.247566
255	3.722862	3.531805	3.859573	4.154615
256	3.915844	3.672073	4.025045	4.344430

MEANS ESTIMATED BY FITTING MODEL OF RANK 9

RAW RESIDUALS - ROWS ARE FULL CELLS - COLUMNS ARE VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPCGRA	10 PMPCON
1	-0.202358	-0.566875	-0.991478	-0.585917	0.148513	-0.522342	-0.634785	-0.467273	-0.167316	-0.938140
2	-0.538129	0.269759	0.084958	-0.679556	0.864111	-0.555847	0.212701	0.290199	0.106829	0.067458
3	0.899549	-3.550187	0.209442	0.344512	1.493962	0.562689	0.250947	0.346530	-0.551274	0.161896
4	-0.797332	-0.213552	-0.436344	-0.249128	-0.123774	-0.637483	0.709544	0.826224	-1.693796	1.355383
5	0.401164	0.311456	0.284605	-0.575413	-0.288138	0.274140	0.282578	0.160584	-0.459435	0.513568
6	-0.221588	0.331446	0.117517	0.261376	0.439575	-0.091001	-0.761982	0.342970	0.347419	1.563647
7	-0.140504	-0.049341	-0.182265	0.398570	0.016371	0.032652	0.191480	0.143884	0.467836	0.336537
8	-0.948497	0.231738	0.116393	-0.361736	0.120858	-0.389742	0.261188	-0.320867	0.325314	0.068772
9	-0.594152	-0.588208	0.240878	0.328999	0.584042	-0.437873	0.299434	0.402131	-0.582789	-1.836790
10	0.208967	0.248427	0.095091	0.235359	0.466306	0.361956	0.258031	-1.618175	-0.725310	0.057697
11	0.324129	0.106769	0.316041	-0.257593	-0.364724	0.356912	-0.668935	-0.617148	0.175718	1.348216
12	0.627248	0.276737	0.170254	-1.017899	-0.815793	0.156740	0.622995	-0.637455	0.366529	-0.090631
13	-0.018408	0.456790	0.294739	-0.660498	1.647391	0.108609	-2.672092	-2.581123	0.458426	-2.329526
14	0.284711	-1.706575	0.148952	0.245863	-1.470344	0.408438	0.286505	0.398571	0.315904	0.554961
15	-0.010499	0.183368	0.147547	0.262908	-0.000599	0.210355	-0.069549	0.127431	0.105793	-0.207357
16	-0.213791	0.327695	0.155607	0.246192	-0.233719	0.138389	0.363407	0.094305	0.347886	-0.851332
17	0.157221	-0.892252	-0.119909	0.270259	-0.403868	-0.009742	-0.565013	-0.682697	-0.160217	-0.356393
18	0.092168	-0.363941	0.055255	-0.349665	0.047366	0.168376	-0.033383	-0.001977	0.031623	-0.038555
19	0.445287	0.372693	0.209468	0.256695	0.329630	0.518204	1.225214	0.277717	-0.610899	-1.344068
20	-0.367035	0.552747	0.333953	0.280763	0.459481	-0.363260	0.263451	0.334048	-0.019002	0.750370
21	0.436084	0.389382	0.188166	0.187124	0.341745	0.436568	0.222057	0.313742	0.338476	0.644857
22	0.664443	0.508577	0.280265	0.339787	0.361071	0.652017	0.254960	0.313796	0.582634	0.690198
23	-0.004200	0.222270	0.102059	0.324318	0.320251	-0.174822	0.055862	0.106109	0.074278	0.024726
24	-0.052730	0.289674	0.187042	-0.197893	0.499218	0.042589	-0.183344	-0.540571	-0.326485	0.149982
25	0.563519	-0.030272	0.311527	0.254746	-0.253788	-1.910304	-0.216526	-0.627096	-1.091731	0.494421

26	0.438067	-0.336495	-0.262831	-0.196036	-0.274381	0.175239	-0.400786	-0.433117	-0.162825	0.138907
27	0.398116	0.262192	0.112053	0.220131	-0.729934	0.404802	-1.766430	-0.667654	-0.632617	0.378735
28	-0.086827	-0.854904	-0.260369	-0.194590	0.125681	-0.223362	-0.096660	-0.116964	-0.352833	0.115700
29	0.087949	-0.119873	0.149994	0.332091	-0.125744	0.290370	0.273702	0.515136	-0.051505	-0.342754
30	-0.057618	0.518027	0.052935	0.338277	0.265159	0.102673	0.437211	0.536010	0.473628	0.479534
31	0.170742	0.470556	0.311701	0.324274	-0.215515	-0.015211	0.636781	0.702731	0.551119	0.358179
32	-0.071540	-0.005431	0.024224	-0.041960	0.007526	-0.042638	0.074652	0.040522	-0.029332	0.000876
33	0.065577	-0.013541	0.017199	0.034611	-0.130316	0.039760	0.018866	-0.075688	0.004700	0.044739
34	0.079311	0.224454	0.113244	-0.036790	-0.274834	0.129620	-0.253957	-0.274254	-0.077996	0.056926
35	-0.071518	0.061089	-0.072016	-0.064640	0.002167	0.054448	-0.058518	0.047545	0.029482	-0.206482
36	-0.047106	-0.492648	-0.523150	-0.207089	-0.324372	-0.148336	-0.307570	-0.234355	-0.177488	-0.443096
37	0.256013	0.201130	0.045349	0.270700	0.272178	0.365778	0.222455	-0.683233	0.394276	0.022920
38	-0.056309	0.381183	0.169834	0.294768	0.402029	-0.015686	1.260701	1.373099	0.486173	1.117258
39	0.095379	0.043036	0.051047	0.029330	0.043346	0.055684	-0.010405	0.035015	0.038365	0.062904
40	-0.069158	-0.153574	-0.068519	-0.135433	-0.053906	-0.055362	0.010159	0.026477	0.064091	-0.078281
41	0.093314	-0.084798	0.067915	0.277358	0.013212	-0.133615	-0.045321	-0.010545	0.207146	0.464999
42	0.265796	0.117884	-0.226413	0.222180	0.227041	0.328017	0.052533	-0.025546	0.109717	-0.030434
43	-1.971361	-0.340507	-0.005003	0.124843	0.703263	-1.137568	-0.957658	-0.896181	-1.921988	0.885597
44	-0.668243	0.246128	0.099210	0.281204	1.335527	-0.587740	0.250929	0.333513	0.435491	-1.459917
45	-0.677446	0.262816	0.077908	0.211632	-1.652357	-0.169375	0.247772	0.369538	0.384866	0.519009
46	0.086918	0.030146	-0.031011	0.073660	-0.057521	0.057937	0.043050	0.119758	0.101892	-0.056249
47	-0.084963	-0.017743	-0.027393	0.003235	-0.013947	-0.026758	-0.054900	-0.039239	-0.009083	0.074547
48	-0.072285	-0.379356	0.026258	0.039802	0.328404	-0.012389	0.445846	-0.212074	-0.033852	-0.310181
49	-0.098435	-0.231745	-0.015870	-0.218471	-0.027136	-0.040305	-0.135191	-0.290307	0.017223	0.011135
50	-0.071496	0.210835	0.044491	0.062947	0.094985	-0.039593	0.174259	0.047112	-0.063919	0.153702

RAW RESIDUALS - ROWS ARE FULL CELLS - COLUMNS ARE VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
51	0.124292	-0.033915	0.106344	0.028011	0.107647	-0.075134	-0.114459	0.025822	0.016086	-0.007235
52	-0.440985	0.304531	0.107897	-0.588583	-0.136024	-0.514518	0.015986	-0.125884	-0.555138	-0.747362
53	0.109608	0.131065	-0.209606	0.024848	0.220988	0.047937	0.004886	-0.014877	-0.030993	-0.590249
54	-0.465063	-0.628529	0.276432	0.359330	-0.456657	-0.388129	0.340819	0.409420	0.546498	0.636911
55	-0.331352	0.039198	-0.056083	0.068492	0.128379	-0.366908	-0.061873	-0.047214	-0.326727	-0.076353
56	0.239236	-0.191713	0.060553	-0.010396	-0.087183	0.133619	-0.173152	-0.032582	0.095192	0.044842
57	-0.113220	-0.225[illegible]	-0.069143	-0.076629	-0.686429	0.116703	-0.128217	0.097328	-0.343011	-0.191823
58	-0.029558	-0.049706	0.052039	-0.333164	0.037464	-0.121930	-0.314416	-0.280444	0.048433	-0.129916
59	0.110566	0.755764	0.261785	0.290087	0.625417	0.093519	-0.085435	0.641179	-0.138811	0.542877
60	1.101363	0.439119	0.240483	0.220515	0.304199	-0.488117	0.244741	0.343871	-0.522770	0.198469
61	0.404481	0.275754	0.094696	0.126876	0.186464	-0.188289	0.203338	0.323565	0.334708	0.092355
62	-0.143657	0.033372	0.108584	0.054728	-0.019811	-0.242359	-0.070945	-0.255285	-0.289633	-0.032459
63	-0.032846	0.164879	-0.477374	0.217499	-0.064897	0.033965	0.191071	0.177400	0.097759	0.071429
64	0.354832	-0.288401	-0.030667	-0.158433	-0.346157	0.324723	0.084872	-0.455157	0.167434	-0.423021
65	0.207951	0.098234	0.223547	0.147928	0.336108	0.174552	0.243469	0.324537	0.324912	0.171466
66	0.087740	0.014631	-0.083845	-0.098440	0.125993	0.131919	-0.185108	0.005207	0.096015	0.090323
67	0.147708	-0.001473	0.034923	-0.079351	-0.170110	0.094561	-0.045861	-0.047633	-0.186775	-0.073409
68	0.449023	0.064943	0.346908	0.306459	0.026029	0.441316	0.213977	0.110971	0.349250	-0.001598
69	-0.048995	-0.009785	0.051121	0.045911	0.137839	0.102508	0.013483	0.138392	0.052183	0.165516
70	0.866865	-0.115590	0.293220	0.274574	-0.617836	0.592958	0.296385	0.363445	0.496341	0.710857
71	0.586650	0.221045	0.147434	0.180934	-0.068905	0.226119	0.588315	0.009807	0.353819	-1.551323
72	-0.056939	0.025072	-0.032475	0.022898	-0.236373	0.171707	0.109244	0.114419	0.236544	-0.165178
73	-0.140833	0.093525	0.076284	0.087700	0.242644	0.062769	0.037970	0.001255	-0.113120	-0.116146
74	0.011130	-0.026422	0.000769	-0.373946	0.043924	0.024162	0.233359	-0.299556	0.335920	0.378293
75	-0.160751	0.010213	-0.395018	-0.017586	0.176188	0.048990	0.191956	0.130138	0.293398	-0.127220
76	0.320975	0.077022	-0.327789	0.319035	0.261907	0.296805	0.480054	0.303351	0.507887	0.070660
77	1.186594	0.288657	0.151424	0.350395	-1.355828	1.534134	0.188551	0.283045	0.365365	-0.034854

78	-0.625728	0.468710	0.275909	0.374463	-2.225977	-0.347330	-1.773103	-1.660624	-1.042738	0.059585
79	-0.322609	-0.194655	0.130123	0.280823	0.156287	0.452498	0.185494	-2.680930	-0.185260	0.454072
80	-1.374114	0.497020	-0.315594	-0.212128	0.158590	-0.052546	-0.408139	-0.013237	0.215768	0.577923
81	-0.237652	-0.666345	-1.794714	-1.639101	-0.292479	0.080616	-1.782875	0.299790	-0.593421	0.472410
82	0.450016	0.013708	0.329770	0.384967	0.337372	0.699152	0.255371	0.356122	0.498476	0.566849
83	-0.253083	0.556858	0.328646	-0.142907	0.280559	-0.123399	-0.007173	-0.641048	-0.380771	0.214831
84	0.026226	0.083969	-0.150474	0.334882	-0.099081	-0.883094	0.070472	-0.328021	-0.032817	-0.200206
85	-0.116311	0.067324	-0.038442	-0.334590	-0.453632	0.251937	0.633982	0.374671	-0.116775	0.555386
86	0.798851	0.625666	0.382508	0.439025	0.415337	0.613559	0.307015	0.542364	0.267587	-0.087429
87	-0.017078	0.152777	-0.048993	0.059671	-0.345256	0.080054	-0.162959	-0.644609	-0.482078	-0.811990
88	0.259433	0.312322	0.215419	0.275814	-0.190283	0.498419	-0.737545	0.391416	-0.175560	-0.537351
89	0.268419	0.237230	0.186042	0.006146	0.073169	0.511874	0.032276	0.092305	0.521671	-0.075403
90	0.228881	0.269669	0.068227	-0.031549	0.161727	0.407857	0.326537	0.099971	0.433345	0.123280
91	0.259216	-0.382445	0.073831	-0.245244	0.039829	-0.047034	-0.152699	-0.326215	-0.142590	-0.359205
92	0.043395	-0.053386	0.034105	0.123238	0.141791	-0.019933	-0.247132	-0.043491	-0.194203	0.118615
93	0.230088	0.315809	-0.540462	0.192568	0.411116	0.445516	-0.130897	0.123230	0.216621	0.080623
94	0.366540	0.319111	0.147084	0.265595	0.460047	-0.504655	0.161034	0.269591	0.407433	-0.024890
95	0.054218	0.499164	0.271569	-0.710337	0.589898	0.113880	0.199280	0.325922	0.499330	0.069548
96	-0.073585	-0.302187	0.231245	0.189810	0.108379	-0.191643	0.099711	0.148012	-0.221746	-0.245628
97	-0.151419	-0.179838	-0.438351	0.143790	0.181120	-0.034672	-0.227407	0.127705	-0.388078	-0.017808
98	0.941021	-0.428356	-0.266247	0.644048	-0.593791	0.726721	0.239411	0.326894	0.322867	0.648059
99	0.310806	0.408279	0.254633	0.417075	-0.178193	0.626549	-0.001992	0.106588	0.147012	0.542546
100	-0.027501	0.194141	0.346732	0.036405	0.307799	0.408665	0.230911	-0.360024	0.591169	0.587887

RAW RESIDUALS - ROWS ARE FULL CELLS - COLUMNS ARE VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUNO	8 LONYZ	9 SPKGRA	10 PMPCON
101	0.275618	-0.302558	-0.465721	-0.390568	-1.476604	0.208493	0.522841	0.619669	-0.551353	-0.184293
102	0.014599	-0.031713	-0.082456	-0.017994	-0.143652	-0.023358	-0.109681	-0.195823	-0.076366	-0.219079
103	-0.069604	-0.035966	0.009811	0.042142	0.022977	-0.111127	-0.123360	0.023704	0.030790	0.156914
104	-0.139177	0.101528	-0.073619	0.123407	-0.104694	0.066774	0.033618	0.172201	0.207127	-0.115955
105	0.066351	0.045260	0.142207	0.051058	0.128538	-0.110494	0.178021	0.215443	-0.045718	-0.013404
106	0.010196	0.182550	0.205259	0.058007	0.332149	0.004479	-0.058600	0.035974	-0.112512	0.058128
107	0.155448	-0.110215	0.048085	0.076169	0.158823	-0.026956	0.252999	0.151278	-0.037125	0.063380
108	-0.356150	-0.372191	-0.196996	-0.059184	-0.153355	0.113319	-0.585566	-0.785144	0.134482	-0.395804
109	0.313636	0.297778	0.357218	0.180510	0.462243	0.213147	0.106364	-0.138783	0.375293	0.165349
110	0.056116	-0.019650	-0.022453	-0.049861	0.049215	0.051698	0.047153	0.114762	0.069619	0.172643
111	-0.152960	0.097472	0.026882	-0.155696	-0.080716	0.095428	-0.006446	0.070066	-0.048512	-0.140188
112	-0.201803	0.165202	-0.041829	-0.231114	-0.275640	0.094580	0.182635	0.277232	0.379072	0.395215
113	-0.188158	0.019381	-0.099897	-0.026508	0.115396	-0.202083	0.088600	-0.129039	-0.131871	0.280702
114	-0.136354	-0.110547	-0.130924	-0.063957	-0.323333	-0.067654	-0.047875	-0.092302	-0.049436	-0.010799
115	0.122496	-0.152173	-0.071967	-0.000284	-0.169132	0.063004	0.151038	0.037589	0.254959	-0.395878
116	0.136261	0.220427	-0.214563	-0.001061	0.171899	-0.125913	-0.009473	-0.173160	0.080458	0.006698
117	0.010808	0.057062	0.139650	-0.023272	-0.231551	0.102486	-0.336591	0.163677	0.080794	-0.027387
118	0.191056	0.125160	-0.024551	-0.309447	0.184841	0.043718	-0.177105	-0.042997	0.244323	-0.345589
119	-0.391539	-0.152491	0.186305	-0.088801	0.238534	-0.077882	0.010063	0.293839	0.251801	-0.408245
120	-0.703861	-0.572438	0.111290	-0.064733	0.168385	-0.959347	0.248309	0.750171	-0.556302	0.086194
121	-0.134076	0.264197	-0.167830	0.130516	-0.016017	-0.281741	-0.348650	0.107642	-0.198824	0.202902
122	0.427617	-0.616608	0.257503	-0.605710	0.669975	0.155931	0.239809	0.329919	0.545334	0.026022
123	0.069322	0.102931	0.209982	0.121225	0.172560	0.298183	0.103469	0.036773	0.300243	-0.101350
124	-0.115795	-0.107493	-0.559334	-0.078297	-0.498117	-0.131400	0.038537	0.110585	-0.206985	0.299019
125	0.471883	-0.027439	0.615151	-0.404229	0.581734	-0.062865	0.276783	0.366916	0.234912	0.393457
126	0.150002	-0.190805	-0.530635	0.502131	0.463999	0.236964	0.235380	0.596610	0.217390	0.737944
127	-0.014285	-0.071591	-0.154491	-0.018082	0.179684	0.221728	0.003657	-0.111735	-0.037192	0.024508
128	0.081426	-0.101623	0.018241	0.117908	0.017503	-0.045110	0.036328	0.149440	-0.090825	0.148525
129	0.202437	-0.210459	0.342725	-0.080246	0.658466	0.140092	0.096796	0.005772	-0.887817	-0.512493

130	-0.169444	-0.211324	0.009439	0.163614	-0.134270	0.377420	-0.057107	-0.114534	-0.074089	-0.205506
131	-2.066084	1.345371	0.289038	0.378777	0.760055	-0.844630	1.288296	1.385520	-3.486181	1.027336
132	-0.065247	-0.318991	-0.055796	-0.126487	-0.406090	-0.126527	-0.355784	-0.245087	0.109286	-0.183628
133	0.215504	0.004486	0.072102	0.206190	-0.438036	0.168038	-0.412976	-0.233814	-0.263499	-0.749667
134	0.353182	0.184540	-0.603414	-0.419743	0.171815	-0.813426	-0.424730	0.422517	0.328398	0.594771
135	-0.260366	-0.312159	-0.249200	-0.180049	0.304079	-0.055264	-0.216133	-0.181122	-0.189124	-0.260742
136	0.197629	0.199579	-0.135221	0.138278	0.543055	-0.077065	-0.033725	0.131072	0.273842	-0.090752
137	-0.081236	0.147550	-0.058335	-0.026211	0.067020	-0.081892	0.088840	-0.209073	0.079700	0.178228
138	0.116310	0.110498	-0.368061	0.011015	-0.329445	-0.269278	-0.017651	-0.179057	0.247255	0.042404
139	-0.111821	0.072133	0.048652	-0.020125	-0.072180	0.124301	0.003446	0.175637	-0.020267	0.124391
140	0.210186	-0.057620	-0.257184	0.055376	0.007503	-0.275088	-0.164592	-0.126908	-0.330548	-0.171400
141	-0.224790	0.017110	0.311315	-0.085883	0.604054	-0.070498	-1.444090	-0.385309	0.050739	-0.419771
142	0.129554	-0.469504	-0.354200	0.071518	-0.466095	-0.285296	-0.539177	-0.862311	-0.124030	0.274668
143	-0.067327	-0.204297	0.432871	0.320736	-0.526688	-0.199753	-0.066295	0.174525	-0.095124	-0.287989
144	0.025194	-0.216270	0.008206	0.020955	-0.133832	0.116944	-0.039536	-0.041834	0.056807	-0.040796
145	0.082957	0.122687	0.012574	-0.068040	0.130785	0.016230	0.189958	-0.008735	0.087659	0.205858
146	-0.047034	0.090334	0.056231	0.102644	-0.239364	0.060518	-0.076307	0.090830	0.046098	0.097289
147	-0.034208	0.040522	-0.027284	-0.130189	-0.087869	-0.064562	0.124048	0.189571	-0.034153	0.037563
148	0.391587	-0.196693	-0.040313	0.304525	0.662226	0.482939	0.672336	0.556292	0.504876	-0.091454
149	0.228039	-0.093391	0.213900	-0.122448	0.211157	0.482767	-0.435734	-0.330681	-0.304312	0.336366
150	-0.132721	-0.246435	-0.178129	-0.202201	-0.077019	-0.190332	-0.076422	-0.170514	-0.352142	0.131501

RAW RESIDUALS - ROWS ARE FULL CELLS - COLUMNS ARE VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
151	0.031508	0.169565	0.128465	0.136699	0.146515	0.000369	0.080588	-0.210661	0.054939	-0.061314
152	0.260853	0.117475	0.404735	0.131005	0.073985	0.370393	-0.065590	-0.106710	-0.180545	-0.251518
153	-0.086669	-0.081146	0.090580	0.162366	-0.088622	-0.114234	-0.014144	-0.114196	0.019882	-0.019275
154	-0.416002	-0.385028	-0.419785	-0.518304	-0.137759	-0.603913	-0.365857	-0.626962	-0.203909	0.115810
155	0.220450	0.284940	0.267761	-1.778611	-2.392161	-0.220751	0.259406	0.352732	-0.096431	-0.489704

RAW RESIDUALS - ROWS ARE FULL CELLS - COLUMNS ARE VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLJP
1	-0.441456	0.293726	-0.034530	0.269908
2	0.143340	0.375680	-0.200002	0.524537
3	0.287699	0.469809	0.928335	0.617488
4	-0.405282	-0.170459	-0.737138	-0.572328
5	-0.600184	-0.097960	-0.169999	-0.223096
6	0.158212	0.382299	-0.205940	0.490224
7	0.046205	0.038805	0.150385	-0.045401
8	0.075445	0.009647	-0.237310	-1.235216
9	0.219804	-1.562890	-0.108974	-0.475599
10	0.026823	0.296842	-0.274446	0.334585
11	-0.668079	-1.130660	-0.707307	0.350484
12	0.138940	0.395739	0.460554	-0.172665
13	0.283299	0.489868	-1.077776	0.586953
14	0.090317	0.349600	-0.243249	-0.602863
15	0.210315	0.107846	-0.087535	-0.064687
16	-0.495487	0.018859	0.057506	0.168575
17	-0.084462	-0.153678	0.029175	0.161525

18	-0.072345	0.245219	0.097508	-0.379058
19	0.234674	-0.595050	-0.067964	-0.268874
20	0.379033	0.499080	0.060372	-0.175923
21	0.186051	0.358811	-0.105100	-0.365738
22	0.378619	0.541343	0.130710	0.063550
23	-0.088349	-0.001776	-0.124843	-0.157774
24	0.103285	0.605208	0.149245	0.146916
25	0.747644	0.413623	0.241867	0.168439
26	-0.231052	0.059069	-0.245034	-0.449948
27	-0.945751	-0.684383	-0.103267	-0.281904
28	0.065643	0.041932	0.119024	0.416090
29	-0.196857	-0.264112	0.157455	-0.180142
30	-0.048510	0.159446	0.024259	0.041175
31	0.310724	0.175310	0.093402	0.303797
32	0.039801	0.008211	-0.065030	-0.011623
33	0.011684	-0.035243	0.015989	0.071862
34	-0.292270	-0.288411	0.039416	0.136255
35	0.133170	0.058162	0.031839	0.012228
36	-0.258849	-0.249908	0.173664	0.044901
37	0.119598	0.324109	-0.134665	-0.287772
38	0.263957	0.418239	-0.006329	-0.194821
39	0.027383	0.028588	-0.005289	-0.068165
40	-0.195056	-0.133820	0.028378	0.010812
41	0.184180	0.051796	0.068589	0.032815
42	0.080058	0.369087	0.205504	0.224962
43	0.376074	0.517136	-1.687996	-1.035405
44	0.183092	0.376867	-0.103468	-0.225220
45	0.134470	0.330728	0.859396	0.677915
46	0.008007	0.049841	-0.025418	0.037777
47	-0.011760	-0.088047	0.023991	0.014033
48	0.120098	-0.235584	0.048161	0.319484
49	0.027727	-0.067926	-0.120360	-0.059356
50	-0.068527	-0.006736	0.011296	-0.023575

RAW RESIDUALS - ROWS ARE FULL CELLS - COLUMNS ARE VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
51	0.057851	0.078541	0.017511	-0.021199
52	0.197482	-0.224493	-0.045642	0.632035
53	0.055005	0.089784	0.213128	-0.072932
54	0.308179	-0.515563	0.024696	-0.128492
55	-0.146259	0.016196	-0.080126	-0.060813
56	-0.023918	-0.130284	0.019930	-0.155908
57	-0.043783	-0.139834	-0.246383	-0.578007
58	0.147851	-0.212229	0.013485	-0.206737
59	0.340419	0.440891	0.131648	0.379414
60	0.291796	0.394752	0.094512	0.949216
61	0.098815	0.254483	-0.070960	-0.240600
62	-0.136794	0.112909	0.155284	0.042948
63	0.093301	-0.087188	0.075282	0.165098
64	-0.995673	-0.148614	0.092507	0.269160
65	0.211345	-0.688883	0.177035	-0.070656
66	-0.062001	0.069602	0.129631	0.015865
67	0.128579	-0.186534	0.187332	-0.004430
68	0.000210	0.002292	-0.157817	-0.286479
69	-0.120044	0.050660	-0.066471	-0.026295

70	0.772524	0.908192	0.594340	0.452994
71	-0.587124	0.267923	0.252201	0.096512
72	0.089600	-0.126083	-0.066756	0.236574
73	-0.122212	0.067414	-0.015995	0.054551
74	0.436432	0.418687	0.255199	-0.123927
75	0.093451	0.078418	-0.110273	-0.263743
76	-0.173937	-0.305667	0.017497	0.266057
77	0.133082	0.429365	-0.147975	-0.548759
78	0.277441	0.523194	-0.019539	-0.455808
79	-1.915541	0.382926	-0.185111	-0.145624
80	-0.277109	-1.044576	0.715361	0.036942
81	-0.803424	-1.518178	-0.116778	0.513793
82	0.340935	0.575952	0.511558	0.106744
83	0.258169	-0.320509	0.123046	-0.023459
84	-0.101479	0.229699	0.148050	0.358154
85	0.216565	-0.449773	0.177581	-0.138710
86	0.654996	0.756059	0.678052	0.277188
87	-0.014175	0.163439	0.131628	0.134992
88	-3.919941	0.402984	-0.191222	0.323841
89	0.035721	0.227664	0.163792	-0.078542
90	0.391691	0.328654	-0.047135	-0.020106
91	-0.058356	0.136071	-0.009737	0.051866
92	-0.054368	-0.057228	0.082396	0.081747
93	-0.028467	0.375303	-0.015127	0.261036
94	0.111885	0.401701	-0.013932	-0.262113
95	0.256244	-0.504169	0.114434	-0.169162
96	0.322159	-0.115682	-0.231418	-0.247592
97	0.367273	0.172621	-0.158795	0.086402
98	-0.297892	-0.114202	0.112399	0.084115
99	0.175793	0.412196	-0.053073	0.360966
100	0.368361	0.594728	0.182737	-0.009746

RAW RESIDUALS - ROWS ARE FULL CELLS - COLUMNS ARE VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLJP
101	0.175380	-1.212208	-0.316069	-0.199561
102	-0.049758	-0.092693	0.029934	-0.001423
103	-0.049830	0.053551	-0.042426	-0.044027
104	0.172869	-0.016863	-0.085139	0.111272
105	-0.005596	-0.023261	0.008421	-0.164673
106	-0.048742	0.080699	0.042833	0.072711
107	-0.042966	-0.022302	-0.051241	0.036104
108	-0.144984	-0.703535	-0.089571	0.404418
109	-0.004632	0.522863	0.111624	0.047935
110	0.081210	0.102490	0.124422	0.096023
111	0.107740	-0.110949	-0.053246	0.089134
112	0.195617	-0.154445	-0.188067	0.289273
113	-0.155259	-0.024012	-0.072838	0.046826
114	0.027739	-0.110699	-0.109117	-0.266469
115	0.107485	0.073934	0.023435	-0.031779
116	-0.176728	-0.484111	0.536864	0.371731
117	-0.226852	-0.124379	0.014249	0.253344
118	-0.648643	-0.121218	0.049631	-0.099575
119	0.158376	0.381370	-0.115841	0.096324
120	-0.297265	0.075500	0.412495	-0.210725
121	-0.334691	0.001898	0.180357	-0.267208

122	-0.697579	-1.482237	0.082833	-0.171252
123	0.003087	-0.190309	0.198475	0.101632
124	-0.178130	0.234128	0.115356	-0.041125
125	0.366229	0.278258	-0.206307	0.401826
126	0.673248	0.137989	0.128220	-0.287989
127	0.209389	0.081533	0.049360	-0.147688
128	0.023815	0.193116	0.069073	-0.041208
129	-0.365160	0.442801	0.175187	0.096188
130	-0.145641	-0.072468	0.122215	-0.006128
131	1.234427	1.485064	1.045525	0.735661
132	-0.337254	-0.458302	-0.482795	-0.344396
133	0.203976	0.301429	0.028048	-0.134211
134	0.048334	-0.254441	0.006384	0.058740
135	-0.061314	-0.061376	-0.075754	-0.047743
136	0.033043	0.075075	0.342780	0.291715
137	0.186215	0.147357	-0.067632	0.061414
138	0.205574	0.077013	0.113336	-0.141688
139	-0.112407	-0.188256	-0.114636	-0.081504
140	0.299834	-0.306233	0.181669	0.321300
141	-0.083624	0.410641	-0.317136	0.369580
142	-0.205931	-0.895229	0.144533	0.195864
143	0.201087	-0.064069	0.407533	0.177477
144	-0.026933	0.068394	0.142576	-0.012910
145	0.078847	-0.043237	-0.039150	0.086748
146	0.262680	-0.080686	0.004599	-0.288346
147	0.005596	0.048276	-0.166367	0.040153
148	0.262266	0.061577	0.746366	0.679698
149	0.069285	-0.012025	-0.019106	0.356549
150	-0.458537	-0.148456	-0.327861	-0.283692

RAW RESIDUALS - ROWS ARE FULL CELLS - COLUMNS ARE VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
151	-0.008661	0.044609	-0.153958	-0.056841
152	0.138674	0.347072	0.294725	0.390277
153	-0.020654	0.024111	-0.032606	-0.025500
154	-0.340906	-0.318999	-0.322437	-0.724417
155	0.132779	0.374066	0.012091	0.752434

RESIDUALS IN STD. DEV. UNITS - FULL CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 DROSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
1	-0.224771	-0.655317	-1.117362	-0.695825	0.142502	-0.545129	-0.679342	-0.480893	-0.183094	-0.884580
2	-0.597730	0.311846	0.095745	-0.807030	0.829140	-0.580096	0.227631	0.298658	0.116903	0.063607
3	0.999180	-4.104075	0.236035	0.409136	1.433501	0.587236	0.268562	0.356631	-0.603262	0.152553
4	-0.885641	-0.246870	-0.491745	-0.295860	-0.118765	-0.665293	0.759349	0.850307	-1.853528	0.996072
5	0.445595	0.360048	0.320741	-0.683351	-0.276477	0.286099	0.302412	0.165265	-0.502761	0.484247
6	-0.246130	0.383157	0.132438	0.310406	0.421785	-0.094971	-0.815458	0.352967	0.380182	1.474375
7	-0.156066	-0.057039	-0.205406	0.473335	0.015709	0.034076	0.204920	0.148078	0.511955	0.373870
8	-1.053548	0.267893	0.131171	-0.429592	0.115967	-0.406744	0.279521	-0.330219	0.355993	0.064845
9	-0.659958	-0.679978	0.271461	0.390713	0.560406	-0.456975	0.320452	0.413853	-0.637748	-1.731923

10	0.232111	0.287185	0.107165	0.279509	0.447435	0.377746	0.276143	-1.665342	-0.793710	0.054403
11	0.360028	0.123426	0.356167	-0.305913	-0.349964	0.372482	-0.715890	-0.635137	0.192288	1.271243
12	0.696719	0.319912	0.191871	-1.208840	-0.782778	0.163578	0.666725	-0.656035	0.401094	-0.085457
13	-0.020447	0.528057	0.332161	-0.784396	1.580721	0.113347	-2.859653	-2.656358	0.501658	-2.196528
14	0.316244	-1.972829	0.157864	0.291983	-1.410839	0.426256	0.306615	0.410188	0.345695	0.532706
15	-0.011662	0.211976	0.166281	0.312225	-0.000575	0.219532	-0.074430	0.131146	0.115770	-0.195519
16	-0.237469	0.378821	0.175364	0.292373	-0.224261	0.144426	0.388916	0.097053	0.380693	-0.802727
17	0.174634	-1.031457	-0.135133	0.320956	-0.387524	-0.010167	-0.604673	-0.702597	-0.175326	-0.336518
18	0.102377	-0.420722	0.062270	-0.415257	0.045449	0.175721	-0.035726	-0.002035	0.034605	-0.036354
19	0.494605	0.430840	0.236063	0.304847	0.316290	0.540811	1.311215	0.285812	-0.668510	-1.267332
20	-0.407686	0.638984	0.376353	0.333430	0.440886	-0.379107	0.281954	0.343785	-0.020794	0.707530
21	0.484383	0.450131	0.212057	0.222225	0.327915	0.455613	0.237644	0.322887	0.370396	0.608041
22	0.738034	0.587923	0.315850	0.403525	0.346458	0.680461	0.272856	0.322943	0.637579	0.650794
23	-0.004665	0.256948	0.115018	0.385155	0.307290	-0.182448	0.059783	0.109202	0.091283	0.323315
24	-0.058570	0.334868	0.210790	-0.235014	0.479015	0.044447	-0.196213	-0.556327	-0.357274	0.141419
25	0.625932	-0.034995	0.351080	0.302533	-0.253112	-1.993640	-0.231725	-0.645375	-1.194686	0.466193
26	0.486585	-0.388993	-0.296202	-0.232809	-0.263276	0.182884	-0.428918	-0.445741	-0.178180	0.130977
27	0.442210	0.303099	0.126230	0.261423	-0.700393	0.422462	-1.890420	-0.687115	-0.692276	0.074240
28	-0.096444	-0.988282	-0.293427	-0.231092	0.120595	-0.233106	-0.103445	-0.120374	-0.386107	0.109095
29	0.097690	-0.138575	0.169038	0.394386	-0.120655	0.303037	0.292913	0.530151	-0.056362	-0.323186
30	-0.063999	0.598848	0.059656	0.401733	0.254428	0.107152	0.467900	0.551634	0.518293	0.452128
31	0.189653	0.543970	0.351276	0.385102	-0.206793	-0.015874	0.681478	0.723214	0.603092	0.337730
32	-0.079464	-0.006279	0.027300	-0.049830	0.007221	-0.044498	0.079892	0.041703	-0.032098	0.000826
33	0.072840	-0.015653	0.019383	0.041103	-0.125042	0.041494	0.020190	-0.077894	0.035143	0.342185
34	0.088095	0.259473	0.127622	-0.043691	-0.263711	0.135274	-0.271783	-0.282248	-0.085351	0.053676
35	-0.079439	0.070620	-0.081160	-0.076765	0.002079	0.056923	-0.062626	0.048931	0.032263	-0.194694
36	-0.052323	-0.569539	-0.589572	-0.245936	-0.311245	-0.154807	-0.329160	-0.241186	-0.194226	-0.417798
37	0.284368	0.232509	0.051107	0.321479	0.261163	0.381735	0.238070	-0.703148	0.431458	0.021517
38	-0.062545	0.440654	0.191397	0.350061	0.385759	-0.015370	1.349193	1.413122	0.532021	1.053472
39	0.105943	0.049750	0.057528	0.034832	0.041591	0.058113	-0.011135	0.036036	0.041983	0.059313
40	-0.076818	-0.177535	-0.077218	-0.160838	-0.051725	-0.057777	0.010872	0.027249	0.070135	-0.373812
41	0.103649	-0.098028	0.076538	0.329385	0.012677	-0.139444	-0.048503	-0.010852	0.226681	0.438452
42	0.295235	0.136276	-0.255159	0.263857	0.217852	0.342327	0.056220	-0.026290	0.120064	-0.028697
43	-2.189731	-0.393632	-0.005638	0.148261	0.674802	-1.187194	-1.024889	-0.922303	-2.103239	0.935036
44	-0.742254	0.284528	0.111807	0.333953	1.281478	-0.613380	0.268542	0.343234	0.476559	-1.385996
45	-0.752477	0.303820	0.087800	0.251331	-1.585486	-0.176764	0.265164	0.380309	0.421160	0.489377
46	0.096545	0.034850	-0.034948	0.087477	-0.055193	0.060465	0.046072	0.123249	0.111500	-0.353038
47	-0.094373	-0.020511	-0.030871	0.003841	-0.013382	-0.027925	-0.058754	-0.040383	-0.009939	0.070291
48	-0.080291	-0.438542	0.029592	0.047269	0.315114	-0.012929	0.477141	-0.218256	-0.037045	-0.292472
49	-0.109337	-0.267902	-0.017884	-0.259453	-0.026038	-0.042063	-0.144681	-0.298769	0.018847	0.010499
50	-0.079415	0.243729	0.050140	0.074755	0.091141	-0.041320	0.186490	0.048485	-0.069947	0.144927

RESIDUALS IN STD. DEV. UNITS - FULL CELLS X VARIABLES

	1 AMTNFD	2 ACCNFD	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPCGRA	10 PMPCON
51	0.138058	-0.039206	0.119846	0.033266	0.103291	-0.078412	-0.122493	0.026575	0.017603	-0.005359
52	-0.489827	0.352043	0.121597	-0.698991	-0.130519	-0.536964	0.017108	-0.129553	-0.607490	-0.704693
53	0.121748	0.151513	-0.236219	0.029510	0.212044	0.050028	0.005229	-0.015311	-0.033916	-0.556550
54	-0.516571	-0.726589	0.311530	0.426734	-0.438176	-0.405061	0.364742	0.421354	0.598035	0.500548
55	-0.368051	0.045314	-0.053204	0.081340	0.123183	-0.382915	-0.066216	-0.048590	-0.357539	-0.071994
56	0.265733	-0.221624	0.068241	-0.012346	-0.083655	0.139448	-0.185306	-0.033532	0.104169	0.042282
57	-0.125750	-0.260921	-0.077922	-0.091003	-0.658649	0.121794	-0.137217	0.100165	-0.375359	-0.180372
58	-0.032832	-0.057460	0.058546	-0.395661	0.035948	-0.127249	-0.336486	-0.288618	0.052968	-0.122499
59	0.122812	0.873676	0.295023	0.344503	0.600106	0.097599	-0.091432	0.659868	-0.151902	0.511883
60	1.223345	0.507628	0.271016	0.261880	0.291888	-0.509411	0.261920	0.353894	-0.572069	0.187138
61	0.449280	0.318776	0.106720	0.150676	0.178917	-0.196503	0.217611	0.332996	0.366273	0.387548

62	-0.159568	0.038579	0.122370	0.064995	-0.019009	-0.252931	-0.075925	-0.262726	-0.316947	-0.030606
63	-0.036484	0.190603	-0.537984	0.258298	-0.062270	0.035447	0.204482	0.182571	0.106978	0.067351
64	0.394132	-0.333396	-0.034560	-0.188152	-0.332148	0.338889	0.090830	-0.468424	0.183224	-0.398870
65	0.230982	0.113560	0.251930	0.175676	0.322505	0.182167	0.260559	0.333996	0.355553	0.161676
66	0.097458	0.016914	-0.094491	-0.116906	0.120894	0.137674	-0.198101	0.005359	0.105069	0.085166
67	0.164068	-0.001703	0.039357	-0.094236	-0.163225	0.098686	-0.049080	-0.049022	-0.204389	-0.059218
68	0.498754	0.075076	0.390953	0.363946	0.024976	0.460569	0.228996	0.114206	0.382186	-0.001601
69	-0.054422	-0.011312	0.057612	0.055710	0.132260	0.106980	0.014429	0.142426	0.057104	0.156066
70	0.962875	-0.133624	0.330449	0.326079	-0.592832	0.618825	0.317189	0.374040	0.543148	0.570273
71	0.651625	0.255531	0.156153	0.214875	-0.066116	0.235984	0.629611	0.010093	0.387185	-1.472183
72	-0.063245	0.028983	-0.036598	0.027194	-0.274784	0.179198	0.116912	0.117754	0.258852	-0.155747
73	-0.156431	0.108116	0.085969	0.104152	0.232824	0.065507	0.040636	0.001292	-0.123788	-0.109515
74	0.012363	-0.030544	0.000866	-0.444092	0.042146	0.025216	0.249740	-0.308288	0.367598	0.356595
75	-0.178555	0.011806	-0.445172	-0.020884	0.169058	0.051128	0.205430	0.133931	0.321066	-0.119957
76	0.356525	0.089039	-0.369407	0.378880	0.251308	0.309754	0.513751	0.312193	0.555782	0.066626
77	1.318015	0.333692	0.170650	0.416123	-1.300958	1.601060	0.201893	0.291295	0.399820	-0.332864
78	-0.695031	0.541836	0.310940	0.444706	-2.135891	-0.362483	-1.897561	-1.709028	-1.141073	0.056183
79	-0.358340	-0.225025	0.146644	0.333501	0.149962	0.472238	0.198515	-2.759074	-0.202731	0.428148
80	-1.526305	0.574563	-0.355664	-0.251920	0.152172	-0.054838	-0.436787	-0.013623	0.236116	0.544929
81	-0.263984	-0.770306	-2.022583	-1.946569	-0.280642	0.084133	-1.908020	0.308529	-0.649383	0.445439
82	0.499858	0.015847	0.371640	0.457180	0.323718	0.729652	0.273296	0.366502	0.545485	0.534486
83	-0.281114	0.643737	0.370373	-0.169714	0.269205	-0.128782	-0.007676	-0.659734	-0.416679	0.202566
84	0.029131	0.097070	-0.159579	0.397700	-0.095071	-0.921619	0.075418	-0.337582	-0.090627	-0.188776
85	-0.129193	0.077828	-0.043323	-0.397472	-0.435274	0.262927	0.678482	0.385592	-0.127787	0.523677
86	0.887329	0.723280	0.431073	0.521379	0.398528	0.640326	0.328565	0.558173	0.292821	-0.082438
87	-0.018959	0.176613	-0.055214	0.070865	-0.331283	0.083547	-0.174398	-0.663398	-0.527540	-0.765532
88	0.288167	0.361049	0.242770	0.327552	-0.182582	0.520162	-0.789315	0.402826	-0.192116	-0.506672
89	0.298148	0.274242	0.209663	0.007299	0.070207	0.534205	0.034542	0.094995	0.570867	-0.071098
90	0.254231	0.311742	0.076890	-0.037468	0.155181	0.425649	0.349458	0.102885	0.474211	0.116241
91	0.287926	-0.442113	0.083205	-0.291248	0.038217	-0.049086	-0.163417	-0.335724	-0.156037	-0.810151
92	0.048202	-0.061715	0.038435	0.146355	0.136052	-0.020803	-0.264479	-0.044759	-0.212517	0.111843
93	0.255572	0.365080	-0.609083	0.228690	0.394478	0.464952	-0.140085	0.126822	0.237050	0.076020
94	0.407137	0.368897	0.155759	0.315416	0.441429	-0.526671	0.172337	0.277449	0.445855	-0.023469
95	0.060223	0.577041	0.306049	-0.843585	0.566025	0.118848	0.213268	0.335422	0.546419	0.065578
96	-0.081735	-0.349333	0.260605	0.225415	0.103993	-0.200004	0.106710	0.152325	-0.242658	-0.231605
97	-0.168189	-0.207895	-0.494007	0.170762	0.173790	-0.036185	-0.243369	0.131428	-0.424675	-0.316791
98	1.045245	-0.495187	-0.300052	0.764861	-0.569760	0.758424	0.256216	0.336422	0.353315	0.611060
99	0.345230	0.471977	0.286963	0.495311	-0.170982	0.653882	-0.002132	0.109695	0.160875	0.511570
100	-0.030547	0.224430	0.390755	0.043234	0.295342	0.426493	0.247119	-0.370519	0.646919	0.554323

RESIDUALS IN STD. DEV. UNITS - FULL CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
101	0.306144	-0.349762	-0.524852	-0.463832	-1.416845	0.217589	0.559540	0.637732	-0.603348	-0.173771
102	0.016215	-0.036661	-0.092926	-0.021369	-0.137838	-0.024377	-0.117380	-0.201531	-0.083568	-0.206571
103	-0.077313	-0.041578	0.011057	0.050048	0.022047	-0.115975	-0.132018	0.024395	0.033693	0.147956
104	-0.154592	0.117368	-0.082967	0.146556	-0.100457	0.069687	0.035978	0.177220	0.226660	-0.109335
105	0.073710	0.052321	0.150263	0.060636	0.123336	-0.115315	0.190517	0.221723	-0.050029	-0.012639
106	0.011326	0.211031	0.231319	0.068888	0.366683	0.004674	-0.062713	0.037022	-0.123123	0.054809
107	0.172664	-0.127410	0.054190	0.090457	0.152396	-0.028132	0.270758	0.155688	-0.040626	0.059762
108	-0.395595	-0.430258	-0.222008	-0.070286	-0.147148	0.118262	-0.626669	-0.808029	0.147164	-0.090335
109	0.348373	0.344236	0.402572	0.214371	0.443536	0.222446	0.113830	-0.142828	0.410685	0.155909
110	0.062332	-0.022716	-0.025304	-0.059214	0.047223	0.053953	0.050462	0.118107	0.076185	0.162786
111	-0.169901	0.112680	0.030295	-0.184902	-0.077450	0.099591	-0.006898	0.072108	-0.053087	-0.132184
112	-0.224154	0.190976	-0.047140	-0.274468	-0.264485	0.098706	0.195455	0.285313	0.414820	0.364165
113	-0.208998	0.022404	-0.112580	-0.031481	0.110726	-0.210898	0.094820	-0.132801	-0.144307	0.264676

114	-0.151455	-0.127794	-0.147546	-0.075954	-0.310248	-0.070605	-0.051235	-0.094393	-0.054038	-0.010182
115	0.136063	-0.175915	-0.081104	-0.000337	-0.162287	0.065753	0.161640	0.038685	0.289946	-0.363847
116	0.151353	0.254817	-0.241805	-0.001260	0.164942	-0.131406	-0.010138	-0.178207	0.088046	0.006315
117	0.012006	0.065964	0.157381	-0.027637	-0.222180	0.106957	-0.360217	0.168448	0.088413	-0.025824
118	0.212217	0.144687	-0.027658	-0.367495	0.177361	0.045625	-0.189537	-0.044251	0.267363	-0.042986
119	-0.434905	-0.176282	0.210523	-0.105459	0.228881	-0.081280	0.010769	0.302404	0.275547	-0.384937
120	-0.781818	-0.661747	0.125420	-0.076876	0.161571	-1.001198	0.265739	0.772037	-0.608764	0.081273
121	-0.148925	0.305416	-0.189139	0.154999	-0.015369	-0.294031	-0.373122	0.110780	-0.217574	0.191318
122	0.474978	-0.712809	0.290309	-0.719331	0.642861	0.162733	0.256641	0.339536	0.596761	0.024536
123	0.076999	0.118990	0.236643	0.143964	0.165577	0.311191	0.110732	0.037845	0.328557	-0.095564
124	-0.128620	-0.124263	-0.630350	-0.092985	-0.477958	-0.137133	0.041242	0.113808	-0.226504	0.281947
125	0.524147	-0.031720	0.593255	-0.480056	0.558191	-0.065607	0.296211	0.377611	0.257066	0.088122
126	0.166615	-0.220573	-0.598008	0.596323	0.445221	0.247301	0.251902	0.614000	0.237891	0.695813
127	-0.015857	-0.082761	-0.174107	-0.021474	0.172412	0.231401	0.003914	-0.114992	-0.040699	0.023109
128	0.090444	-0.117478	0.020556	0.140026	0.016795	-0.047078	0.038878	0.153796	-0.099390	0.140139
129	0.224858	-0.243294	0.386240	-0.095299	0.631817	0.146203	0.103591	0.005940	-0.971542	-0.483233
130	-0.188211	-0.244294	0.010637	0.194305	-0.128836	0.393885	-0.061115	-0.117873	-0.081076	-0.193773
131	-2.294916	1.555271	0.325736	0.449830	0.729296	-0.881477	1.378725	1.425905	-3.814943	0.968583
132	-0.072473	-0.368758	-0.062880	-0.150214	-0.339655	-0.132047	-0.380757	-0.252231	0.119592	-0.173144
133	0.239372	0.005186	0.081256	0.244867	-0.391523	0.175369	-0.441954	-0.240629	-0.288348	-0.706867
134	0.392299	0.213331	-0.680027	-0.498479	0.164861	-0.848912	-0.454543	0.434833	0.359367	0.550314
135	-0.289204	-0.360861	-0.280840	-0.213823	0.291773	-0.057675	-0.231304	-0.186402	-0.206959	-0.245856
136	0.219517	0.230717	-0.152389	0.164217	0.521078	-0.080427	-0.036092	0.134892	0.299666	-0.085571
137	-0.090234	0.170570	-0.065742	-0.031128	0.064308	-0.085465	0.095076	-0.215167	0.087216	0.158053
138	0.129192	0.127738	-0.414792	0.013081	-0.316112	-0.281025	-0.018890	-0.184276	0.270572	0.039983
139	-0.124206	0.083387	0.054830	-0.023900	-0.069259	0.129723	0.003688	0.180756	-0.022178	0.117289
140	0.233466	-0.066610	-0.289837	0.065763	0.007200	-0.287089	-0.176145	-0.130607	-0.361720	-0.161615
141	-0.249687	0.019779	0.350842	-0.101993	0.579607	-0.073573	-1.545455	-0.396541	0.055524	-0.395805
142	0.143903	-0.542754	-0.410441	0.084934	-0.447232	-0.297742	-0.577023	-0.887446	-0.135727	0.258986
143	-0.074784	-0.236171	0.487831	0.380901	-0.505373	-0.208467	-0.070948	0.179612	-0.104094	-0.271547
144	0.027985	-0.250011	0.009247	0.024886	-0.128416	0.122046	-0.042312	-0.043054	0.052164	-0.038467
145	0.092145	0.141828	0.014170	-0.080803	0.125492	0.016939	0.203292	-0.008989	0.095926	0.194105
146	-0.052243	0.104428	0.063371	0.121899	-0.229677	0.063158	-0.081663	0.093477	0.050445	0.091735
147	-0.037997	0.046844	-0.030748	-0.154611	-0.084313	-0.067378	0.132756	0.195097	-0.037374	0.035419
148	0.434958	-0.227380	-0.045432	0.361649	0.635425	0.504007	0.719529	0.572507	0.552488	-0.086233
149	0.253296	-0.107962	0.241058	-0.145417	0.202611	0.503828	-0.466319	-0.340319	-0.333010	0.317162
150	-0.147421	-0.284883	-0.200746	-0.240131	-0.073902	-0.198635	-0.081785	-0.175484	-0.385351	0.123993

RESIDUALS IN STD. DEV. UNITS - FULL CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
151	0.034998	0.196020	0.144776	0.162342	0.140585	0.000385	0.086244	-0.216801	0.060120	-0.057814
152	0.289744	0.135803	0.456123	0.155580	0.070991	0.386551	-0.070301	-0.109821	-0.197571	-0.246588
153	-0.096268	-0.093806	0.102193	0.192823	-0.085036	-0.119217	-0.015137	-0.117525	0.021757	-0.018175
154	-0.462077	-0.445099	-0.473084	-0.615530	-0.103398	-0.530258	-0.391538	-0.645237	-0.223139	0.109198
155	0.244865	0.329395	0.301758	-2.112248	-2.295350	-0.230381	0.277615	0.363013	-0.135525	-0.451745

RESIDUALS IN STD. DEV. UNITS - FULL CELLS X VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
1	-0.476057	0.325871	-0.041925	0.342935

2	0.154575	0.416793	-0.242835	0.666456
3	0.310248	0.521224	1.127148	0.784556
4	-0.437048	-0.189114	-0.895004	-0.727177
5	-0.647225	-0.108681	-0.206406	-0.283456
6	0.170612	0.424136	-0.250045	0.622860
7	0.049826	0.043052	0.182591	-0.057685
8	0.081359	0.010703	-0.288133	-1.569418
9	0.237032	-1.733928	-0.132312	-0.604277
10	0.028925	0.329327	-0.333222	0.425111
11	-0.720442	-1.254396	-0.858786	0.445312
12	0.149830	0.439047	0.559187	-0.219381
13	0.305503	0.543478	-1.308595	0.745759
14	0.097396	0.387859	-0.295343	-0.765974
15	0.226799	0.119648	-0.106282	-0.082188
16	-0.534322	0.020923	0.081963	0.214184
17	-0.091082	-0.170496	0.035423	0.205228
18	-0.078015	0.272055	0.118391	-0.481616
19	0.253067	-0.660170	-0.082519	-0.341620
20	0.408741	0.553698	0.073302	-0.223521
21	0.203634	0.398079	-0.127608	-0.464693
22	0.408295	0.600586	0.158704	0.080744
23	-0.095274	-0.001971	-0.151580	-0.200461
24	0.111380	0.671440	0.181208	0.186666
25	0.806243	0.458889	0.293666	0.214012
26	-0.249161	0.065533	-0.297510	-0.571687
27	-1.019877	-0.759280	-0.125383	-0.358176
28	0.070788	0.046521	0.144514	0.528668
29	-0.212286	-0.293016	0.203318	-0.228882
30	-0.052312	0.176895	0.029454	0.052315
31	0.335078	0.194496	0.113406	0.385992
32	0.042921	0.009110	-0.078957	-0.014768
33	0.012599	-0.039100	0.019413	0.091305
34	-0.315178	-0.319974	0.047858	0.173120
35	0.143607	0.064527	0.038658	0.015537
36	-0.279137	-0.277257	0.210857	0.057049
37	0.128972	0.359579	-0.163505	-0.365632
38	0.284645	0.464010	-0.007684	-0.247532
39	0.029529	0.031716	-0.006422	-0.086607
40	-0.210344	-0.148464	0.034456	0.013737
41	0.198615	0.057465	0.083278	0.041693
42	0.086333	0.409479	0.249516	0.285828
43	0.405550	0.573730	-2.049500	-1.315545
44	0.197443	0.418111	-0.125627	-0.286156
45	0.145009	0.366922	1.043446	0.861332
46	0.008634	0.055295	-0.030861	0.047998
47	-0.012682	-0.097682	0.029129	0.017829
48	0.129511	-0.261366	0.058475	0.405923
49	0.029900	-0.075359	-0.146137	-0.075416
50	-0.073898	-0.007474	0.013715	-0.029954

RESIDUALS IN STD. DEV. UNITS - FULL CELLS X VARIABLES

	11 EZCOMP	12 CLRPIC	13 NDTAMS	14 HRLUP
51	0.062385	0.087136	0.021261	-0.026935
52	0.212960	-0.249061	-0.055417	0.803039
53	0.059315	0.099610	0.258772	-0.092664

54	0.332334	-0.571985	0.029985	-0.163257
55	-0.157723	0.017968	-0.097286	-0.077267
56	-0.022557	-0.144542	0.024198	-0.198091
57	-0.047215	-0.155137	-0.299148	-0.734394
58	0.159439	-0.235455	0.016373	-0.262672
59	0.367100	0.489141	0.159842	0.482069
60	0.314667	0.437952	0.114753	1.206037
61	0.106560	0.282333	-0.086157	-0.305696
62	-0.147516	0.125266	0.188540	0.054568
63	0.100614	-0.096730	0.091404	0.209767
64	-1.073712	-0.164878	0.112318	0.341984
65	0.227910	-0.764272	0.214949	-0.089773
66	-0.066851	0.077219	0.157393	0.020158
67	0.138657	-0.206948	0.227451	-0.005628
68	0.000227	0.002543	-0.191615	-0.363989
69	-0.129452	0.056204	-0.080706	-0.033409
70	0.833073	1.007582	0.721625	0.575557
71	-0.633141	0.297244	0.318354	0.122624
72	0.096623	-0.139882	-0.081053	0.300582
73	-0.131791	0.074792	-0.019420	0.069310
74	0.470639	0.464507	0.309853	-0.157457
75	0.100775	0.087000	-0.133890	-0.335101
76	-0.187570	-0.339118	0.021244	0.338041
77	0.143513	0.476020	-0.179666	-0.697232
78	0.299186	0.580451	-0.023845	-0.579132
79	-2.065677	0.424832	-0.224755	-0.185024
80	-0.298828	-1.158891	0.858564	0.046937
81	-0.866395	-1.684323	-0.141788	0.652805
82	0.367657	0.638983	0.621114	0.135625
83	0.278403	-0.355584	0.149398	-0.029806
84	-0.109433	0.254837	0.179756	0.455057
85	0.233539	-0.498995	0.215612	-0.176240
86	0.706334	0.838800	0.823266	0.352185
87	-0.015287	0.181292	0.159818	0.171515
88	-4.227178	0.447086	-0.232175	0.411460
89	0.038521	0.252579	0.198870	-0.099792
90	0.422391	0.364621	-0.057229	-0.025546
91	-0.062930	0.150962	-0.011786	0.065899
92	-0.058629	-0.063491	0.100042	0.103865
93	-0.030598	0.416375	-0.018367	0.331662
94	0.120655	0.445662	-0.016916	-0.333031
95	0.276328	-0.559344	0.138905	-0.214931
96	0.347409	-0.128342	-0.280979	-0.314581
97	0.396059	0.191512	-0.192833	0.109779
98	-0.321240	-0.126700	0.136470	0.106873
99	0.189571	0.457306	-0.064440	0.458629
100	0.397232	0.659813	0.221872	-0.012383

RESIDUALS IN STD. DEV. UNITS - FULL CELLS X VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
101	0.189126	-1.344868	-0.383759	-0.253555
102	-0.053658	-0.102837	0.036345	-0.001808
103	-0.053736	0.059411	-0.051512	-0.055939
104	0.186419	-0.018709	-0.103372	0.141378
105	-0.006034	-0.025806	0.010225	-0.209227

106	-0.052563	0.089531	0.051970	0.092384
107	-0.046333	-0.024743	-0.062214	0.045873
108	-0.156347	-0.780528	-0.108754	0.513837
109	-0.004995	0.580084	0.135529	0.060905
110	0.087575	0.113706	0.151068	0.122003
111	0.116185	-0.123091	-0.064649	0.113250
112	0.210949	-0.182441	-0.228344	0.367540
113	-0.167428	-0.026639	-0.088437	0.059496
114	0.029913	-0.122813	-0.132485	-0.338565
115	0.115909	0.082025	0.028454	-0.040377
116	-0.190579	-0.537090	0.651840	0.472307
117	-0.244632	-0.137991	0.017301	0.321889
118	-0.699482	-0.134484	0.060260	-0.126516
119	0.170789	0.423107	-0.140650	0.122385
120	-0.320564	0.083763	0.500836	-0.267739
121	-0.360923	0.002106	0.218982	-0.339504
122	-0.752361	-1.644449	0.100573	-0.217587
123	0.003329	-0.211136	0.240981	0.129130
124	-0.192091	0.259751	0.140061	-0.052251
125	0.394933	0.308710	-0.250491	0.510545
126	0.726016	0.153090	0.155680	-0.365908
127	0.225800	0.090455	0.059931	-0.187647
128	0.025681	0.214250	0.083866	-0.052357
129	-0.393780	0.491260	0.212736	0.122212
130	-0.157056	-0.080398	0.148389	-0.007786
131	1.331179	1.647585	1.269437	0.934702
132	-0.363687	-0.508457	-0.586192	-0.437576
133	0.219963	0.334417	0.034055	-0.170524
134	0.052123	-0.282286	0.007752	0.074632
135	-0.066119	-0.068093	-0.091978	-0.060660
136	0.035633	0.083291	0.416190	0.370642
137	0.200811	0.163483	-0.082116	0.078030
138	0.221687	0.085441	0.137608	-0.180023
139	-0.121217	-0.208858	-0.139187	-0.103555
140	0.323334	-0.339746	0.220576	0.408231
141	-0.090178	0.455581	-0.385055	0.469573
142	-0.222072	-0.993201	0.175487	0.248857
143	0.216848	-0.071081	0.494932	0.225495
144	-0.029044	0.075879	0.173110	-0.016403
145	0.085027	-0.047969	-0.047535	0.110219
146	0.283268	-0.089516	0.005594	-0.366361
147	0.006034	0.053559	-0.201997	0.051017
148	0.282822	0.068315	0.906209	0.863598
149	0.074715	-0.013341	-0.023198	0.453017
150	-0.494476	-0.164703	-0.398077	-0.360447

RESIDUALS IN STD. DEV. UNITS - FULL CELLS X VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
151	-0.009340	0.049491	-0.199084	-0.072219
152	0.149543	0.385054	0.357844	0.495871
153	-0.022272	0.026749	-0.039589	-0.032399
154	-0.367626	-0.353909	-0.391490	-0.920416
155	0.143186	0.415003	0.014681	0.956014

RESIDUALS AS T-STATISTICS - FULL CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
1	-0.683598	-1.993022	-3.398243	-2.116218	0.433394	-1.657906	-2.066089	-1.462543	-0.556846	-2.690279
2	-0.848278	0.442562	0.135877	-1.145310	1.176688	-0.823253	0.323046	0.423845	0.165905	0.090268
3	1.001366	-4.113057	0.236551	0.410032	1.436638	0.588521	0.269149	0.357412	-0.604582	0.152987
4	-1.257861	-0.350625	-0.698417	-0.420205	-0.168680	-0.944904	1.078490	1.207677	-2.632534	1.414703
5	1.102165	0.890569	0.793343	-1.690247	-0.683857	0.707658	0.748008	0.438777	-1.243564	1.197771
6	-0.246690	0.384029	0.132739	0.311113	0.422746	-0.095187	-0.817325	0.353771	0.381048	1.477733
7	-0.475316	-0.173718	-0.625587	1.441594	0.347842	0.103784	0.624107	0.450987	1.559216	1.138661
8	-1.834043	0.466356	0.228346	-0.747844	0.201877	-0.708071	0.486598	-0.574854	0.619721	0.112885
9	-0.661550	-0.681619	0.272116	0.391656	0.561758	-0.458077	0.321225	0.414851	-0.639287	-1.736102
10	0.232608	0.287801	0.107394	0.280107	0.448394	0.378555	0.276735	-1.668910	-0.795411	0.054520
11	0.626848	0.214898	0.620126	-0.532628	-0.609325	0.648532	-1.246442	-1.105843	0.334795	2.213373
12	1.213233	0.557080	0.334115	-2.105016	-1.363092	0.284847	1.161002	-1.142388	0.698446	-0.148810
13	-0.020498	0.529376	0.332991	-0.786356	1.584671	0.113631	-2.866799	-2.662996	0.502911	-2.202017
14	0.316956	-1.977269	0.168242	0.292640	-1.414014	0.427215	0.307305	0.411112	0.346473	0.533905
15	-0.042955	0.780792	0.612477	1.150048	-0.002117	0.808622	-0.274156	0.483061	0.426425	-0.720171
16	-0.588418	0.938669	0.434528	0.724463	-0.555689	0.357868	0.963683	0.240486	0.943339	-1.989055
17	0.394642	-2.330913	-0.305377	0.725303	-0.875735	-0.022976	-1.366455	-1.587745	-0.396206	-0.760471
18	0.329452	-1.353902	0.200387	-1.336313	0.146256	0.565478	-0.114967	-0.006548	0.111360	-0.116988
19	0.495612	0.431717	0.236544	0.305468	0.316933	0.541911	1.313884	0.286394	-0.669870	-1.269912
20	-0.408589	0.640400	0.377187	0.334168	0.441862	-0.379947	0.282578	0.344547	-0.020840	0.709098
21	0.485465	0.451137	0.212531	0.222722	0.328647	0.456631	0.238175	0.323609	0.371223	0.609399
22	0.740502	0.589889	0.316906	0.404875	0.347617	0.682737	0.273769	0.324023	0.639710	0.552970
23	-0.017165	0.945302	0.423145	1.416970	1.130509	-0.671221	0.219939	0.401750	0.299037	0.085773
24	-0.156717	0.896009	0.564013	-0.628830	1.281703	0.118927	-0.525008	-1.488569	-0.955961	0.378397
25	1.262376	-0.070579	0.708056	0.610145	-0.510475	-4.020758	-0.467340	-1.301587	-2.409433	0.940214
26	1.869729	-1.494728	-1.138171	-0.894581	-1.011653	0.702740	-1.648141	-1.712784	-0.684664	0.503285
27	0.443723	0.304136	0.126712	0.262318	-0.732789	0.423907	-1.896888	-0.689466	-0.694644	0.074494
28	-0.408914	-4.190236	-1.244107	-0.979810	0.511313	-0.988352	-0.438598	-0.510374	-1.637060	0.462553
29	0.330201	-0.458395	0.571363	1.333057	-0.407824	1.024290	0.990071	1.791954	-0.190507	-1.092393
30	-0.158640	1.484417	0.147874	0.995810	0.630673	0.265608	1.159826	1.367383	1.284739	1.120731
31	0.331638	0.951219	0.614263	0.673413	-0.361612	-0.027759	1.191674	1.264657	1.054604	0.590575
32	-2.229292	-0.176143	0.765879	-1.397952	0.202591	-1.248347	2.241290	1.169951	-0.930479	0.023164
33	1.282645	-0.275640	0.341321	0.723793	-2.201889	0.730682	0.355529	-1.371649	0.090569	0.742839
34	0.567102	1.670328	0.821555	-0.281255	-1.697612	0.870813	-1.749572	-1.816939	-0.549438	0.345533
35	-0.751008	0.667638	-0.767276	-0.725731	0.019659	0.537203	-0.592058	0.462591	0.305008	-1.340515
36	-0.141331	-1.538317	-1.592510	-0.664304	-0.840711	-0.418153	-0.889102	-0.651475	-0.524628	-1.128526
37	0.285290	0.233263	0.051273	0.322521	0.262010	0.382973	0.238842	-0.705428	0.432857	0.021587
38	-0.062780	0.442304	0.192114	0.351372	0.387204	-0.016432	1.354247	1.418415	0.534014	1.057417
39	2.075008	0.974411	1.126752	0.682228	0.814615	1.138219	-0.218092	0.705798	0.822289	1.151709
40	-0.852786	-1.970880	-0.857231	-1.785524	-0.574214	-0.641405	0.120695	0.302499	0.778600	-0.819417
41	0.546501	-0.516863	0.403554	1.736716	0.066840	-0.735230	-0.255735	-0.057219	1.195195	2.311778
42	1.646200	0.759862	-1.422743	1.471241	1.214723	1.908781	0.313478	-0.146593	0.669463	-0.150010
43	-4.431594	-0.796645	-0.011411	0.300057	1.365687	-2.402685	-2.074207	-1.866590	-4.256609	1.689975
44	-0.744699	0.285465	0.112175	0.335052	1.285698	-0.615399	0.269426	0.344364	0.478128	-1.390560
45	-0.755356	0.304986	0.088137	0.252295	-1.591573	-0.177443	0.266182	0.381769	0.422777	0.491256
46	1.650060	0.595622	-0.597309	1.495082	-0.943306	1.033414	0.787425	2.106458	1.905668	-0.906475
47	-1.753728	-0.381146	-0.573669	0.071381	-0.248681	-0.518934	-1.391817	-0.750423	-0.184701	1.306209
48	-0.229661	-1.254380	0.084645	0.135204	0.901334	-0.036983	1.364787	-0.624286	-0.105961	-0.836571
49	-0.732681	-1.795241	-0.119846	-1.738626	-0.174484	-0.281868	-0.969524	-2.002087	0.126299	0.370356
50	-0.870000	2.670088	0.549287	0.818951	0.998459	-0.452667	2.043029	0.531158	-0.766277	1.587695

RESIDUALS AS T-STATISTICS - FULL CELLS X VARIABLES

	1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON
51	1.853525	-0.526365	1.609023	0.446618	1.386752	-1.052736	-1.644553	0.356789	0.236328	-0.092221
52	-1.489858	1.070774	0.369849	-2.126051	-0.396988	-1.633229	0.052037	-0.394049	-1.847741	-2.143395
53	0.728951	0.907181	-1.414356	0.176688	1.269608	0.299540	0.031309	-0.091672	-0.203070	-3.332327
54	-0.518162	-0.728826	0.312489	0.428048	-0.439525	-0.406308	0.365866	0.422651	0.599876	0.602397
55	-2.936510	0.361540	-0.504274	0.648974	0.982822	-3.055100	-0.528309	-0.387676	-2.852638	-0.574404
56	1.314484	-1.096294	0.337563	-0.061071	-0.413810	0.689799	-0.916643	-0.165869	0.515287	0.209153
57	-0.462682	-0.959951	-0.286682	-0.334810	-2.423228	0.448091	-0.504833	0.368516	-1.380978	-0.665443
58	-0.138863	-0.243028	0.248041	-1.673439	0.152042	-0.538199	-1.423162	-1.220707	0.224028	-0.518105
59	0.214912	1.528874	0.516270	0.602857	1.050146	0.170791	-0.160000	1.154726	-0.265818	0.895761
60	1.228287	0.509679	0.272111	0.262938	0.293067	-0.511469	0.262978	0.355324	-0.574380	0.187894
61	0.451132	0.320090	0.107160	0.151297	0.179655	-0.197313	0.218508	0.334369	0.367783	0.088010
62	-1.047606	0.253282	0.803394	0.426707	-0.124798	-1.660562	-0.498468	-1.724867	-2.080842	-0.200935
63	-0.159064	0.830998	-2.345524	1.126140	-0.271488	0.154544	0.891510	0.795981	0.466408	0.293541
64	0.888783	-0.751822	-0.077935	-0.424291	-0.749007	0.764210	0.204825	-1.056316	0.413177	-0.899468
65	0.465018	0.228621	0.507189	0.353675	0.649273	0.366741	0.524562	0.672408	0.715805	0.325490
66	0.905498	0.157153	-0.877931	-1.086189	1.123250	1.279148	-1.840592	0.049791	0.976216	0.791296
67	1.199982	-0.012458	0.287853	-0.689236	-1.193821	0.721784	-0.358965	-0.358541	-1.494890	-0.506257
68	1.683619	0.253429	1.319720	1.228553	0.084309	1.554717	0.773010	0.385518	1.290126	-0.005405
69	-0.363546	-0.075566	0.384855	0.372155	0.883523	0.714646	0.096388	0.951431	0.381465	1.042549
70	1.370833	-0.190239	0.470456	0.464235	-0.844007	0.881014	0.451578	0.532517	0.773273	0.954259
71	1.140589	0.447276	0.290830	0.376112	-0.115728	0.413060	1.102056	0.017666	0.677720	-2.576875
72	-0.443004	0.203015	-0.256353	0.190479	-1.924736	1.255199	0.818913	0.824811	1.813138	-1.090939
73	-0.967219	0.668486	0.531552	0.643972	1.439559	0.405035	0.251251	0.007988	-0.765386	-0.577131
74	0.039777	-0.098273	0.002787	-1.428818	0.135601	0.081130	0.803510	-0.991882	1.182707	1.147628
75	-0.822559	0.054389	-2.050797	-0.096209	0.778807	0.235532	0.946367	0.616987	1.479073	-0.552612
76	1.022700	0.255409	-1.059652	1.086825	0.720882	0.888534	1.473704	0.895532	1.594273	0.191117
77	1.320564	0.334337	0.170980	0.416928	-1.303472	1.604155	0.202283	0.291858	0.400593	-0.032927
78	-0.696610	0.543067	0.311647	0.445716	-2.140742	-0.363306	-1.901871	-1.712909	-1.143665	0.056311
79	-0.508976	-0.319618	0.208289	0.473696	0.213002	0.670753	0.281965	-3.918910	-0.287953	0.608129
80	-2.658464	1.000754	-0.519483	-0.438785	0.265047	-0.095515	-0.760780	-0.023728	0.411258	0.949137
81	-0.264532	-0.771903	-2.026778	-1.950607	-0.281224	0.084307	-1.911977	0.309169	-0.650730	0.446363
82	0.710309	0.022519	0.528108	0.649662	0.460011	1.036850	0.388360	0.520807	0.775145	0.759516
83	-0.752341	1.722824	0.991225	-0.454203	0.720469	-0.344657	-0.020544	-1.765635	-1.115152	0.542123
84	0.072047	0.240078	-0.419411	0.983615	-0.235136	-2.279400	0.186529	-0.834928	-0.224143	-0.466892
85	-0.291668	0.175705	-0.097806	-0.897339	-0.982681	0.593589	1.531752	0.870519	-0.288494	1.182262
86	2.196133	1.790113	1.066903	1.290410	0.986355	1.584802	0.813197	1.381474	0.724730	-0.204333
87	-0.050796	0.472947	-0.147856	0.189767	-0.887135	0.223728	-0.467016	-1.776499	-1.412688	-2.050268
88	0.288750	0.361780	0.243261	0.328215	-0.182952	0.521214	-0.790911	0.403640	-0.192505	-0.507697
89	1.436658	1.321472	1.010289	0.035171	0.338304	2.574137	0.166443	0.457748	2.750797	-0.342594
90	0.934197	1.145529	0.282540	-0.137678	0.570230	1.564092	1.284118	0.378061	1.742538	0.427141
91	0.971346	-1.491512	0.280701	-0.982553	0.128930	-0.165597	-0.551305	-1.132598	-0.526406	-2.733125
92	0.169997	-0.217657	0.135553	0.516165	0.479829	-0.073367	-0.932765	-0.157855	-0.749505	0.394448
93	0.636502	0.909233	-1.516923	0.569554	0.982449	1.157963	-0.348881	0.315850	0.590373	0.189329
94	0.408406	0.370047	0.166276	0.316400	0.442805	-0.528313	0.172874	0.278314	0.447246	-0.023542
95	0.060419	0.578914	0.307042	-0.846322	0.567862	0.119234	0.213960	0.336510	0.548192	0.065791
96	-0.385330	-1.646885	1.228590	1.062690	0.490262	-0.942892	0.503069	0.718120	-1.143979	-1.091870
97	-0.449969	-0.556197	-1.321551	0.456852	0.464952	-0.096808	-0.651102	0.351618	-1.136163	-0.044923
98	1.819439	-0.861962	-0.522295	1.331379	-0.991771	1.320174	0.445991	0.585604	0.615008	1.063661
99	0.778273	1.064006	0.646917	1.116611	-0.385455	1.474086	-0.004805	0.247291	0.362671	1.153264
100	-0.053346	0.391939	0.582407	0.075503	0.515779	0.744818	0.431563	-0.647066	1.129766	0.968058

RESIDUALS AS T-STATISTICS - FULL CELLS X VARIABLES

1 AMTNFO	2 ACCNFO	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZUND	8 LONYZ	9 SPKGRA	10 PMPCON

101	0.535302	-0.611569	-0.917719	-0.811024	-2.477396	0.380460	0.978373	1.115093	-1.054971	-0.303344
102	0.216228	-0.488858	-1.239134	-0.284947	-1.838033	-0.325066	-1.565229	-2.687357	-1.114353	-2.754562
103	-0.945330	-0.508380	0.135198	0.611946	0.269577	-1.418064	-1.614228	0.298280	0.411978	1.809097
104	-0.895753	0.580073	-0.480738	0.849201	-0.582086	0.403792	0.208468	1.026879	1.313350	-0.533528
105	0.820405	0.582338	1.783739	0.674883	1.372741	-1.283465	2.120476	2.467801	-0.556827	-0.140672
106	0.081760	1.523412	1.669875	0.497298	2.647055	0.033741	-0.452721	0.267261	-0.888811	0.395662
107	0.879504	-0.649065	0.276060	0.460814	0.776349	-0.143312	1.379321	0.793121	-0.206962	0.304445
108	-0.986245	-1.072662	-0.553479	-0.175226	-0.356850	0.294836	-1.562325	-2.014469	0.366890	-0.225210
109	1.133346	1.119888	1.309671	0.697404	1.442936	0.723673	0.370318	-0.464658	1.336064	0.507212
110	0.612895	-0.223355	-0.248810	-0.582244	0.464335	0.530510	0.496189	1.161331	0.749114	1.500551
111	-1.677321	1.112409	0.299086	-1.825410	-0.764607	0.983199	-0.068099	0.711876	-0.524093	-1.304963
112	-1.002781	0.854355	-0.210888	-1.227864	-1.183207	0.441575	0.874390	1.276381	1.855746	1.629137
113	-1.685148	0.180647	-0.907734	-0.253829	0.892780	-1.700472	0.764529	-1.070759	-1.153549	2.134079
114	-1.297757	-1.395021	-1.254271	-0.650821	-2.658397	-0.604992	-0.439018	-0.813958	-0.453547	-0.087250
115	0.693011	-0.895984	-0.413089	-0.001717	-0.826575	0.334899	0.823279	0.197033	1.476778	-1.853179
116	0.408724	0.688126	-0.652989	-0.003402	0.445423	-0.354859	-0.027379	-0.481244	0.237766	0.017054
117	0.045752	0.256931	0.613002	-0.107647	-0.865394	0.416601	-1.403051	0.656105	0.344369	-0.100583
118	0.809663	0.552019	-0.105552	-1.402088	0.676677	0.174071	-0.723133	-0.168828	1.020061	-0.164003
119	-0.979846	-0.397166	0.474312	-0.237600	0.515671	-0.183125	0.024263	0.681321	0.620810	-0.867269
120	-1.754571	-1.493655	0.283090	-0.173520	0.364687	-2.259842	0.599809	1.742594	-1.374054	0.133443
121	-0.453772	0.930594	-0.576300	0.472277	-0.046829	-0.895905	-1.136892	0.337543	-0.662942	0.582941
122	0.476707	-0.715404	0.291366	-0.721949	0.645201	0.153325	0.257576	0.340772	0.598933	0.024625
123	0.326015	0.503804	1.001945	0.609544	0.701050	1.317582	0.468838	0.160235	1.391109	-0.404617
124	-0.290044	-0.280219	-1.421458	-0.209684	-1.077817	-0.309240	0.093002	0.256643	-0.510777	0.635804
125	1.056873	-0.063960	1.397856	-0.957970	1.125519	-0.132288	0.597270	0.761403	0.518339	0.177686
126	0.335771	-0.444509	-1.205134	1.201736	0.897229	0.498373	0.507544	1.237351	0.479409	1.402234
127	-0.385551	-0.446265	-0.938826	-0.115794	0.929687	1.247770	0.021103	-0.620065	-0.219460	0.124509
128	0.643619	-0.835994	0.146283	0.996448	0.119517	-0.335019	0.276662	1.094442	-0.707278	0.997257
129	0.507609	-0.549225	0.871920	-0.215134	1.426301	0.330048	0.233852	0.013409	-2.193215	-1.090879
130	-0.771701	-1.001651	0.043614	0.796689	-0.528253	1.615004	-0.250584	-0.483301	-0.332425	-0.794506
131	-2.303042	1.560778	0.325889	0.451422	0.731878	-0.884598	1.383606	1.430954	-3.828451	0.972113
132	-0.324965	-1.653492	-0.281951	-0.673550	-1.747194	-0.592090	-1.707293	-1.130990	0.536244	-0.776368
133	1.101426	0.023864	0.373885	1.126712	-1.801521	0.806928	-2.033617	-1.107213	-1.326782	-3.252520
134	0.791009	0.430148	-1.371158	-1.005106	0.332417	-1.711697	-0.916514	0.876772	0.724608	1.130795
135	-1.022432	-1.275765	-0.992865	-0.755936	1.031516	-0.203901	-0.817738	-0.658993	-0.731671	-0.869183
136	1.160583	1.219794	-0.805678	0.868212	2.754924	-0.425214	-0.190818	0.713171	1.584326	-0.452411
137	-0.405222	0.766000	-0.295234	-0.139790	0.288794	-0.383807	0.426966	-0.966273	0.391672	0.754595
138	0.370293	0.366124	-1.188884	0.037492	-0.936045	-0.805478	-0.054143	-0.528175	0.775519	0.114600
139	-0.509407	0.341996	0.224873	-0.098021	-0.284053	0.532035	0.015125	0.741338	-0.090959	0.481038
140	0.624278	-0.178113	-0.775014	0.175848	0.019252	-0.767664	-0.471004	-0.349239	-0.957226	-0.432152
141	-0.434695	0.034435	0.510801	-0.177566	1.039072	-0.128088	-2.690572	-0.690361	0.096665	-0.689080
142	0.324714	-1.224710	-0.926149	0.191651	-1.009168	-0.571845	-1.302038	-2.002499	-0.306264	0.584395
143	-0.200270	-0.532465	1.306408	1.020050	-1.353387	-0.558274	-0.189998	0.481001	-0.278764	-0.727201
144	0.249437	-2.228422	0.082424	0.221818	-1.144611	1.087827	-0.377135	-0.383749	0.554083	-0.342363
145	0.873963	1.345189	0.134399	-0.766390	1.190245	0.160656	1.928151	-0.085261	0.909823	1.841018
146	-0.199493	0.398762	0.241984	0.465475	-0.877031	0.241172	-0.311833	0.355947	0.192626	0.350293
147	-0.368442	0.454230	-0.298152	-1.499193	-0.817547	-0.653340	1.287275	1.891770	-0.352399	0.343442
148	0.988132	-0.516560	-0.103211	0.821590	1.443552	1.144997	1.634618	1.300616	1.255137	-0.195903
149	0.443028	-0.188831	0.421624	-0.254342	0.354377	0.881221	-0.815517	-0.595235	-0.582452	0.554733
150	-0.924849	-1.787218	-1.259383	-1.506463	-0.463627	-1.246143	-0.513088	-1.100901	-2.417505	0.777373

RESIDUALS AS T-STATISTICS - FULL CELLS X VARIABLES

	1 AMTNFD	2 ADDNFD	3 CONSAT	4 ORDSAT	5 SUPDEC	6 MESLEN	7 EZJND	8 LDNYZ	9 SPKGRA	10 PMPCDN
151	0.238830	1.337553	0.987959	1.107831	0.959364	0.002629	0.588536	-1.479455	0.410253	-0.394523

152	1.188957	0.557266	1.871689	0.638416	0.291309	1.586202	-0.288478	-0.450647	-0.810727	-1.011866
153	-0.632742	-0.616560	0.671682	1.267365	-0.558915	-0.783578	-0.099493	-0.772453	0.143001	-0.119458
154	-1.153710	-1.111319	-1.181193	-1.536850	-0.258162	-1.573624	-0.977589	-1.611023	-0.557131	0.272544
155	0.348569	0.468897	0.429555	-3.006800	-3.267446	-0.327949	0.395186	0.516752	-0.150215	-0.657298

RESIDUALS AS T-STATISTICS - FULL CELLS X VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
1	-1.447835	0.991073	-0.127506	1.042971
2	0.219368	0.591499	-0.344623	0.945813
3	0.310927	0.522365	1.129615	0.786273
4	-0.620731	-0.268595	-1.271159	-1.032797
5	-1.600892	-0.268819	-0.510540	-0.701121
6	0.171001	0.425102	-0.250615	0.624278
7	0.151751	0.131118	0.556101	-0.175684
8	0.141631	0.018632	-0.501589	-2.732082
9	0.237604	-1.738112	-0.132631	-0.605735
10	0.028987	0.330033	-0.333936	0.426022
11	-1.254357	-2.184040	-1.495239	0.775336
12	0.260906	0.764536	0.973742	-0.382020
13	0.306266	0.544836	-1.311865	0.747623
14	0.097615	0.388732	-0.296008	-0.767698
15	0.835389	0.440710	-0.391477	-0.302732
16	-1.323982	0.051845	0.203093	0.530721
17	-0.205828	-0.385291	0.080051	0.463779
18	-0.251056	0.875485	0.380997	-1.549862
19	0.253582	-0.661514	-0.082687	-0.342316
20	0.409646	0.554925	0.073464	-0.224016
21	0.201082	0.398968	-0.127893	-0.465731
22	0.409660	0.602594	0.159234	0.081014
23	-0.350509	-0.007251	-0.557657	-0.737488
24	0.298021	1.796576	0.484859	0.499464
25	1.626023	0.925483	0.592263	0.431617
26	-0.957415	0.251814	-1.143199	-2.196737
27	-1.023357	-0.761878	-0.125812	-0.359402
28	0.300135	0.197243	0.612727	2.241510
29	-0.717545	-0.990418	0.687230	-0.773639
30	-0.129671	0.438485	0.073011	0.129678
31	0.585939	0.340107	0.198308	0.674970
32	1.204109	0.255562	-2.215075	-0.414300
33	0.221863	-0.688517	0.341854	1.607796
34	-2.028920	-2.059797	0.308080	1.114439
35	1.357650	0.610037	0.355466	0.146886
36	-0.753985	-0.748906	0.569550	0.154096
37	0.129390	0.360745	-0.164035	-0.366818
38	0.285712	0.465748	-0.007713	-0.248460
39	0.578356	0.621202	-0.125774	-1.696300
40	-2.335109	-1.648161	0.382509	0.152505
41	1.047218	0.302987	0.439094	0.219830
42	0.481381	2.283214	1.391274	1.593746
43	0.820766	1.161134	-4.147851	-2.662446
44	0.198093	0.419487	-0.126040	-0.287099
45	0.145565	0.368331	1.047452	0.864639
46	0.147567	0.945060	-0.527449	0.820339
47	-0.235672	-1.815217	0.541305	0.331321
48	0.370447	-0.747595	0.167259	1.161080

49	0.200363	-0.504992	-0.979279	-0.505372
50	-0.809568	-0.081875	0.150250	-0.328146

RESIDUALS AS T-STATISTICS - FULL CELLS X VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
51	0.837565	1.169867	0.285449	-0.361620
52	0.647738	-0.757543	-0.168555	2.442525
53	0.355156	0.596411	1.549392	-0.554824
54	0.333357	-0.573746	0.030077	-0.163759
55	-1.258398	0.143358	-0.776199	-0.616475
56	-0.111582	-0.714999	0.119699	-0.979885
57	-0.173707	-0.570762	-1.100593	-2.701899
58	0.674346	-0.995851	0.069247	-1.110967
59	0.642401	0.855964	0.279712	0.843589
60	0.315938	0.439721	0.115216	1.210909
61	0.106999	0.283497	-0.086512	-0.306957
62	-0.968482	0.822404	1.237813	0.358250
63	0.438651	-0.421727	0.398507	0.914549
64	-2.421265	-0.371807	0.253282	0.771188
65	0.458833	-1.538647	0.432739	-0.180732
66	-0.621216	0.717456	1.462360	0.187290
67	1.014127	-1.513603	1.553565	-0.041165
68	0.000766	0.008586	-0.646824	-1.228698
69	-0.864764	0.375455	-0.539130	-0.223177
70	1.186036	1.434481	1.027358	0.819413
71	-1.108236	0.520289	0.557240	0.214638
72	0.676798	-0.979806	-0.567739	2.105439
73	-0.814859	0.452441	-0.120075	0.428545
74	1.514228	1.494499	0.996917	-0.506600
75	0.464247	0.400788	-0.616797	-1.543729
76	-0.538047	-0.372767	0.060938	0.969679
77	0.143790	0.476940	-0.180013	-0.698579
78	0.299865	0.581769	-0.023899	-0.580447
79	-2.934028	0.603419	-0.319236	-0.262802
80	-0.520488	-2.018515	1.512833	0.081753
81	-0.868191	-1.687816	-0.142082	0.654159
82	0.522448	0.908007	0.882616	0.192725
83	0.745087	-0.951645	0.399830	-0.079768
84	-0.270656	0.630276	0.444584	1.125472
85	0.527241	-1.126540	0.486768	-0.397882
86	1.748171	2.076024	2.037577	0.871655
87	-0.040936	0.485478	0.427972	0.459297
88	-4.235729	0.447990	-0.232644	0.412292
89	0.185617	1.217085	0.958281	-0.480863
90	1.552117	1.339838	-0.210295	-0.093871
91	-0.212301	0.509284	-0.039763	0.222316
92	-0.206773	-0.223921	0.352829	0.366310
93	-0.076453	1.036983	-0.045742	0.826005
94	0.121031	0.447052	-0.016959	-0.334069
95	0.277225	-0.561159	0.139356	-0.215628
96	1.637815	-0.605051	-1.324637	-1.483049
97	1.059604	0.512366	-0.515818	0.293699
98	-0.559177	-0.220544	0.237551	0.186032
99	0.427362	1.030932	-0.145270	1.033915
100	0.693718	1.152283	0.387473	-0.021625

RESIDUALS AS T-STATISTICS - FULL CELLS X VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
101	0.330692	-2.351542	-0.671013	-0.443348
102	-0.715518	-1.371293	0.484653	-0.024112
103	-0.657047	0.726435	-0.629853	-0.683976
104	1.080176	-0.108404	-0.598976	0.819193
105	-0.067164	-0.287227	0.113804	-2.328718
106	-0.379445	0.646314	0.375165	0.666909
107	-0.236037	-0.126048	-0.316938	0.233690
108	-0.389784	-1.945937	-0.271130	1.281029
109	-0.016250	1.887161	0.440911	0.198138
110	0.861108	1.118056	1.485427	1.199633
111	1.147016	-1.215196	-0.638235	1.118041
112	0.943705	-0.816173	-1.021525	1.644233
113	-1.349974	-0.214793	-0.713064	0.479712
114	0.256314	-1.052342	-1.135218	-2.901037
115	0.590350	0.417777	0.144923	-0.205650
116	-0.514654	-1.450398	1.760277	1.275453
117	-0.952846	-0.537476	0.067388	1.253764
118	-2.668706	-0.513091	0.229909	-0.482692
119	0.384791	0.953265	-0.316886	0.275735
120	-0.723558	0.189064	1.130457	-0.604325
121	-1.099723	0.006416	0.667232	-1.034457
122	-0.755100	-1.650436	0.100939	-0.218379
123	0.014095	-0.893948	1.020313	0.546736
124	-0.433174	0.585750	0.315844	-0.117829
125	0.796331	0.622472	-0.505081	1.029446
126	1.463100	0.308515	0.313734	-0.737394
127	1.217570	0.487758	0.323164	-1.011839
128	0.182752	1.524642	0.596806	-0.372580
129	-0.888943	1.108999	0.480175	0.275889
130	-0.643961	-0.329648	0.608423	-0.031924
131	1.335892	1.653419	1.273932	0.938011
132	-1.630752	-2.279895	-2.628452	-1.962066
133	1.012119	1.538759	0.156698	-0.784634
134	0.105097	-0.569187	0.015630	0.150484
135	-0.233754	-0.240733	-0.325174	-0.214454
136	0.188389	0.440357	2.200385	1.959574
137	0.901803	0.734173	-0.368768	0.350418
138	0.635402	0.244892	0.394415	-0.515985
139	-0.497150	-0.856591	-0.570848	-0.424712
140	0.864583	-0.908469	0.589811	1.091594
141	-0.156996	0.793147	-0.670365	0.817508
142	-0.501099	-2.241131	0.395981	0.561539
143	0.580718	-0.190354	1.325425	0.603875
144	-0.258879	0.676329	1.542977	-0.146204
145	0.806449	-0.454964	-0.450852	1.045384
146	1.081670	-0.341822	0.021325	-1.398966
147	0.058511	0.519339	-1.958675	0.494690
148	0.642512	0.155198	2.058717	1.961913
149	0.130581	-0.023335	-0.040574	0.792351
150	-3.102106	-1.033265	-2.497341	-2.261273

RESIDUALS AS T-STATISTICS - FULL CELLS X VARIABLES

	11 EZCOMP	12 CLRPIC	13 NOTAMS	14 HRLUP
151	-0.063737	0.337727	-1.358563	-0.492829
152	0.613645	1.580059	1.468403	2.034792
153	-0.145390	0.175815	-0.260206	-0.212952
154	-0.917886	-0.883638	-0.977471	-2.298087
155	0.203826	0.590759	0.020898	1.360892

D.F.= 4289.

RESIDUALS ESTIMATED AFTER FITTING MODEL OF RANK 9

ANALYSIS OF VARIANCE

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14 DEPENDENT VARIABLE(S)

1 AMTNFO
2 ACCNFO
3 CONSAT
4 ORDSAT
5 SUPDEC
6 MESLEN
7 EZUND
8 LONYZ
9 SPKGRA
10 PMPCON
11 EZCOMP
12 CLRPIC
13 NOTAMS
14 HRLUP

NUMBER OF ALTERNATE BASIS ORDERS= 7

PRINCIPAL COMPONENTS OF CORRELATION MATRIX WILL BE PRINTED

DISCRIMINANT ANALYSIS WILL BE PERFORMED FOR EACH BETWEEN CELL HYPOTHESIS

PRINCIPAL COMPONENTS -- VARIABLES X COMPONENTS (ROWS X COLS)

	1	2	3	4	5	6	7	8	9	10
1 AMTNFO	-0.577946	0.001220	-0.514318	0.202504	-0.093548	-0.008968	-0.001969	-0.278718	-0.272236	-0.272109
2 ACCNFO	-0.494025	-0.125848	0.003134	-0.276607	0.264418	-0.103790	-0.035081	-0.042758	-0.016751	-0.016758
3 CONSAT	-0.616575	-0.237303	0.098265	-0.232357	-0.323524	-0.127379	0.405207	0.442674	0.026955	0.025933
4 ORDSAT	-0.600196	-0.056718	-0.026339	-0.107973	-0.620095	-0.194373	-0.249851	-0.198076	0.018206	0.018229
5 SUPDEC	-0.463694	-0.413779	0.091284	-0.415979	0.230453	-0.141839	-0.060858	-0.041428	-0.282424	-0.282322
6 MESLEN	-0.595556	0.091640	-0.531789	0.246935	0.056139	-0.025224	-0.008719	-0.064094	0.182969	0.182817

7 EZUND	-0.613572	0.488993	-0.249516	-0.152613	0.079477	-0.025635	0.008437	-0.033209	0.028658	0.028642
8 LONYZ	-0.575756	0.551048	-0.244442	-0.130948	0.035395	-0.080863	0.014887	-0.096558	-0.035416	-0.035421
9 SPKGRA	-0.602804	0.317379	0.308562	0.219324	0.206334	0.064378	0.038804	0.302346	0.078276	0.078320
10 PMPCON	-0.444961	0.108300	-0.321951	0.068326	-0.101514	-0.334419	-0.041064	0.029664	-0.034884	-0.034869
11 EZCOMP	-0.624054	0.006856	-0.198741	-0.034212	0.055501	0.630224	0.025986	0.091461	-0.272936	-0.272853
12 CLRPIC	-0.648134	-0.309606	-0.073371	-0.236341	0.132766	0.249042	-0.013208	-0.212792	0.480431	0.480278
13 NOTAMS	-0.524222	-0.313607	-0.230424	-0.427523	0.073084	-0.064334	-0.454719	0.245206	0.004393	0.004387
14 HRLUP	-0.410046	-0.285109	-0.388135	-0.561751	0.059169	-0.039857	0.399585	-0.199216	-0.029649	-0.029645

	11	12	13	14
1 AMTNFO	-0.332772	-0.245052	0.115165	-0.075042
2 ACCNFO	0.053857	0.063639	-0.013446	0.007233
3 CONSAT	0.053187	0.029067	0.005272	0.002435
4 ORDSAT	-0.048273	-0.031788	-0.072112	0.021526
5 SUPDEC	-0.106561	0.009579	-0.061831	0.021476
6 MESLEN	0.523158	0.480259	-0.082151	0.007612
7 EZUND	0.038251	0.018842	0.453431	-0.464667
8 LONYZ	0.022413	0.040379	-0.408159	0.424205
9 SPKGRA	-0.283858	-0.332060	0.000904	0.060232
10 PMPCON	-0.020306	-0.001999	0.023524	-0.034384
11 EZCOMP	0.019211	0.136815	-0.108177	0.015693
12 CLRPIC	0.043888	-0.160253	0.096453	0.022498
13 NOTAMS	0.009358	0.011551	0.001141	0.006723
14 HRLUP	-0.004605	-0.001102	0.003755	0.006936

VECTOR	EIGENVALUE	PER CENT OF VARIATION
1	4.409979	33.4575
2	1.185748	8.9960
3	1.135513	8.6149
4	1.065760	8.0857
5	0.739656	5.6116
6	0.673723	5.1114
7	0.602405	4.5703
8	0.576708	4.3754
9	0.504317	3.8261
10	0.503948	3.8233
11	0.489215	3.7116
12	0.453484	3.4405
13	0.432181	3.2789
14	0.408194	3.0969

COMPUTED FROM CORRELATION MATRIX

HYPOTHESIS 1 1 DEGREE(S) OF FREEDOM

PAGE 8

00,00,00,00,00,00,00,00,

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 19170.3750

D.F.= 14. AND 4276.0000 P LESS THAN 0.0001

	VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN
1	AMTNFO	54939.3491	67783.0000	0.0001	67783.0000	0.0001
2	ACCNFO	57101.8045	76309.3125	0.0001	2902.0959	0.0001
3	CONSAT	59637.0638	75742.1875	0.0001	814.7051	0.0001
4	ORDSAT	58946.2282	83135.0625	0.0001	641.3496	0.0001
5	SUPDEC	50887.5107	46851.9961	0.0001	182.6333	0.0001
6	MESLEN	50201.6568	54677.2734	0.0001	79.0042	0.0001
7	EZUND	59748.8658	68431.0625	0.0001	275.1882	0.0001
8	LONYZ	57554.6729	60958.8125	0.0001	76.3448	0.0001
9	SPKGRA	55426.6613	66373.5000	0.0001	83.7093	0.0001
10	PMPCON	58090.1817	51646.5352	0.0001	208.1440	0.0001
11	EZCOMP	60707.1682	70596.3125	0.0001	59.9105	0.0001
12	CLRPIC	55286.6973	68049.6875	0.0001	5.6501	0.0175
13	NOTAMS	70158.9635	103427.562	0.0001	509.2546	0.0001
14	HRLUP	81334.9951	131301.062	0.0001	786.1672	0.0001

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 4289.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 1

VARIANCE OF CANONICAL VARIATE 1 = 62.7670 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.9843
M= 6.0 N= 2137.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

VARIABLE	RAW COEFFICIENT	STANDARDIZED
1 AMTNFO	-0.149001	-0.1341
2 ACCNFO	-0.260767	-0.2256
3 CONSAT	-0.096954	-0.0860
4 ORDSAT	-0.172113	-0.1449
5 SUPDEC	-0.126733	-0.1321
6 MESLEN	-0.016542	-0.0159
7 EZUND	-0.082896	-0.0775
8 LONYZ	-0.094333	-0.0917
9 SPKGRA	-0.100258	-0.0916
10 PMPCON	-0.121739	-0.1291
11 EZCOMP	-0.049378	-0.0458
12 CLRPIC	0.021751	0.0196
13 NOTAMS	-0.232280	-0.1913

14 HRLJP -0.559060 -0.4400

HOTELLING'S TRACE CRITERION= 62.7670

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 17792.7109 WITH 14. DEGREES OF FREEDOM P LESS THAN 0.0001

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

	1
1	-7.893979

HYPOTHESIS 2 1 DEGREE(S) OF FREEDOM

D1,0,0,0,0,0,0,0, L/RATING

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 7.4626

D.F.= 14. AND 4276.0000 P LESS THAN 0.0001

	VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN
1	AMTNFO	2.2637	2.7929	0.0940	2.7929	0.0940
2	ACCNFD	2.1479	2.8704	0.0897	1.7844	0.1811
3	CONSAT	6.3106	8.0147	0.0047	4.6381	0.0313
4	ORDSAT	0.5501	0.7758	0.3820	5.8258	0.0158
5	SUPDEC	58.1549	53.5431	0.0001	48.1166	0.0001
6	MESLEN	5.4945	5.9843	0.0144	1.2100	0.2706
7	EZUND	1.0125	1.1596	0.2797	5.1905	0.0227
8	LONYZ	0.0113	0.0120	0.9134	0.1011	0.7515
9	SPKGRA	0.3128	0.3745	0.5435	3.5231	0.0605
10	PMPCON	4.9961	4.4419	0.0348	6.9130	0.0086
11	EZCOMP	4.1318	4.8048	0.0282	8.3976	0.0038
12	CLRPIC	0.9541	1.1743	0.2759	0.6698	0.4137
13	NOTAMS	4.3561	6.4217	0.0113	5.4169	0.0199
14	HRLUP	3.6368	5.8709	0.0153	9.2932	0.0023

DEGREES OF FREEDOM FOR HYPOTHESIS= 1

DEGREES OF FREEDOM FOR ERROR= 4289.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 2

VARIANCE OF CANONICAL VARIATE 1 = 0.0245 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.0239
M= 6.0 N= 2137.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

VARIABLE	RAW COEFFICIENT	STANDARDIZED
1 AMTNFO	-0.066870	-0.0602
2 ACCNFO	-0.123442	-0.1068
3 CONSAT	-0.225919	-0.2005
4 ORDSAT	0.284365	0.2394
5 SUPDEC	-0.735126	-0.7661
6 MESLEN	-0.250336	-0.2399
7 EZUND	0.175352	0.1639
8 LONYZ	-0.123342	-0.1198
9 SPKGRA	0.189355	0.1730
10 PMPCON	0.203298	0.2156
11 EZCOMP	0.330194	0.3062
12 CLRPIC	0.123595	0.1114
13 NOTAMS	-0.436097	-0.3592
14 HRLJP	0.424048	0.3337

HOTELLING'S TRACE CRITERION= 0.0245

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 103.5418 WITH 14. DEGREES OF FREEDOM P LESS THAN 0.0001

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

	1 L/RATING
1	-0.154312

HYPOTHESIS 3 1 DEGREE(S) OF FREEDOM

0,01,0,0,0,0,0,0, ENGINES

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 0.6999

D.F.= 14. AND 4276.0000 P LESS THAN 0.7777

VARIABLE		HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN
1	AMTNFO	1.5089	1.8617	0.1709	1.8617	0.1709
2	ACCNFO	2.3757	3.1748	0.0744	2.2525	0.1331
3	CONSAT	0.0119	0.0151	0.9029	1.0004	0.3157
4	ORDSAT	0.2028	0.2860	0.5951	0.0196	0.8889
5	SUPDEC	0.1404	0.1293	0.7202	0.4801	0.4902
6	MESLEN	0.4895	0.5332	0.4685	0.0171	0.8961
7	EZUND	0.1757	0.2012	0.6555	0.9007	0.3442
8	LONYZ	0.0531	0.0562	0.8138	0.0850	0.7715
9	SPKGRA	0.3852	0.4612	0.4994	0.1000	0.7516
10	PMPCON	0.4226	0.3758	0.5415	0.2797	0.5976
11	EZCOMP	0.0957	0.1113	0.7397	0.6155	0.4358
12	CLRPIC	1.3051	1.6063	0.2033	1.8294	0.1754
13	NOTAMS	0.1245	0.1835	0.6694	0.0006	0.9814
14	HRLUP	0.4519	0.7296	0.3967	0.4488	0.5054

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 4289.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 3

VARIANCE OF CANONICAL VARIATE 1 = 0.0023 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.0023
M= 6.0 N= 2137.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

VARIABLE	RAW COEFFICIENT	STANDARDIZED
1 AMTNFO	-0.413441	-0.3722
2 ACCNFO	-0.689559	-0.5965
3 CONSAT	0.375760	0.3334
4 ORDSAT	-0.133294	-0.1122
5 SUPDEC	0.323550	0.3372
6 MESLEN	-0.020817	-0.0199
7 EZUND	0.318828	0.2979
8 LONYZ	0.140797	0.1368

9	SPKGRA	-0.168140	-0.1537
10	PMPCON	-0.143697	-0.1524
11	EZCOMP	0.456633	0.4234
12	CLRPIC	-0.580053	-0.5228
13	NOTAMS	0.081725	0.0673
14	HRLUP	-0.300284	-0.2363

HOTELLING'S TRACE CRITERION= 0.0023

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 9.8842 WITH 14. DEGREES OF FREEDOM P LESS THAN 0.7706

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

	1 ENGINES
1	3.5692900-02

HYPOTHESIS 4 1. DEGREE(S) OF FREEDOM

0,0,D1,0,0,0,0,0, TOTALFLY

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 5.1650

D.F.= 14. AND 4276.0000 P LESS THAN 0.0001

	VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN
1	AMTNFO	14.3925	17.7572	0.0001	17.7572	0.0001
2	ACCNFO	1.3820	1.8469	0.1727	0.1374	0.7116
3	CONSAT	2.8764	3.6532	0.0555	0.2301	0.6312
4	ORDSAT	4.8461	6.8347	0.0090	19.7458	0.0001
5	SUPDEC	4.2877	3.9477	0.0467	7.4031	0.0065
6	MESLEN	0.0631	0.0687	0.7939	2.0643	0.1505
7	EZUND	0.0399	0.0457	0.8317	0.0137	0.9070
8	LONYZ	0.1168	0.1237	0.7261	0.3446	0.5586
9	SPKGRA	0.3534	0.4232	0.5173	2.0882	0.1479
10	PMPCON	3.8142	3.3911	0.0650	4.0636	0.0438
11	EZCOMP	0.0025	0.0030	0.9568	0.0198	0.8885

12	CLRPIC	0.9546	1.1750	0.2757	2.4984	0.1138
13	NOTAMS	4.4442	6.5516	0.0105	6.8745	0.0088
14	HRLUP	7.7075	12.4424	0.0005	8.7780	0.0031

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 4289.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 4

VARIANCE OF CANONICAL VARIATE 1 = 0.0169 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.0166
M= 6.0 N= 2137.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

VARIABLE	RAW COEFFICIENT	STANDARDIZED
1 AMTNFO	-0.757964	-0.6824
2 ACCNFO	-0.186134	-0.1610
3 CONSAT	-0.364100	-0.3231
4 ORDSAT	0.654749	0.5513
5 SUPDEC	0.269823	0.2812
6 MESLEN	0.150874	0.1446
7 EZUND	-0.042896	-0.0401
8 LONYZ	0.097575	0.0948
9 SPKGRA	0.276226	0.2524
10 PMPCON	-0.215190	-0.2282
11 EZCOMP	0.033024	0.0306
12 CLRPIC	0.321889	0.2901
13 NOTAMS	-0.262886	-0.2165
14 HRLUP	-0.493744	-0.3886

HOTELLING'S TRACE CRITERION= 0.0169

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 71.8833 WITH 14. DEGREES OF FREEDOM P LESS THAN 0.0001

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

	1 TOTALFLY
1	-0.176625

HYPOTHESIS 5 1 DEGREE(S) OF FREEDOM

0,0,0,D1,0,0,0,0, ANUALFLY

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 4.1619

D.F.= 14. AND 4276.0000 P LESS THAN 0.0001

	VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN
1	AMTNFO	0.8799	1.0856	0.2954	1.0856	0.2954
2	ACCNFO	4.2827	5.7233	0.0167	4.8746	0.0272
3	CONSAT	0.0052	0.0066	0.9358	1.0326	0.3082
4	ORDSAT	0.9941	1.4020	0.2346	0.6700	0.4137
5	SUPDEC	3.8131	3.5107	0.0605	6.0042	0.0142
6	MESLEN	1.3979	1.5225	0.2155	0.8598	0.3535
7	EZUND	1.4105	1.6155	0.2024	4.2178	0.0400
8	LONYZ	2.2807	2.4156	0.1194	2.3828	0.1217
9	SPKGRA	2.9854	3.5751	0.0584	3.6432	0.0551
10	PMPCON	0.0431	0.0383	0.8454	0.0519	0.8198
11	EZCOMP	9.5869	11.1486	0.0009	12.4428	0.0005
12	CLRPIC	3.0652	3.7728	0.0518	2.7269	0.0936
13	NOTAMS	4.2011	6.1932	0.0128	3.1959	0.0734
14	HRLJP	14.2002	22.9237	0.0001	14.7405	0.0002

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 4289.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 5

VARIANCE OF CANONICAL VARIATE 1 = 0.0136 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.0134
M= 6.0 N= 2137.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

VARIABLE	RAW COEFFICIENT	STANDARDIZED
1 AMTNFO	0.033539	0.0302
2 ACCNFO	-0.347346	-0.3005

3	CONSAT	0.210288	0.1866
4	ORDSAT	-0.087609	-0.0738
5	SUPDEC	0.421570	0.4394
6	MESLEN	-0.049536	-0.0475
7	EZUND	0.337445	0.3153
8	LONYZ	0.335284	0.3258
9	SPKGRA	-0.242174	-0.2213
10	PMPCON	0.109446	0.1161
11	EZCOMP	-0.442975	-0.4108
12	CLRPIC	-0.236601	-0.2133
13	NOTAMS	-0.096536	-0.0795
14	HRLUP	-0.711880	-0.5603

HOTELLING'S TRACE CRITERION= 0.0136

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 57.8920 WITH 14. DEGREES OF FREEDOM P LESS THAN 0.0001

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

	1 ANUALFLY
1	0.104925

HYPOTHESIS 6 1 DEGREE(S) OF FREEDOM

0,0,0,0,01,0,0,0, GADO

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 18.0852

D.F.= 14. AND 4276.0000 P LESS THAN 0.0001

VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN
1 AMTNFO	6.7214	8.2927	0.0040	8.2927	0.0040
2 ACCNFO	2.3705	3.1679	0.0746	1.2739	0.2593
3 CONSAT	3.1778	4.0360	0.0443	0.7651	0.3819
4 ORDSAT	0.1897	0.2676	0.6070	0.5904	0.4072
5 SUPDEC	4.1425	3.8140	0.0505	1.3393	0.2452

6	MESLEN	2.6537	2.8902	0.0885	0.0088	0.9251
7	EZUND	0.8645	0.9901	0.3231	0.0105	0.9183
8	LONYZ	0.2976	0.3152	0.5765	0.1922	0.6619
9	SPKGRA	2.2253	2.6648	0.1017	0.1686	0.6812
10	PMPCON	259.0619	230.3255	0.0001	235.8541	0.0001
11	EZCOMP	4.6705	5.4313	0.0197	0.5633	0.4545
12	CLRPIC	3.2748	4.0308	0.0445	1.5909	0.2065
13	NOTAMS	1.3812	2.0361	0.1522	0.4764	0.4929
14	HRLUP	5.2934	8.5452	0.0035	1.3407	0.2450

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 4289.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 6

VARIANCE OF CANONICAL VARIATE 1 = 0.0592 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.0559
M= 6.0 N= 2137.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

VARIABLE	RAW COEFFICIENT	STANDARDIZED
1 AMTNFO	0.150712	0.1357
2 ACCNFO	0.046310	0.0401
3 CONSAT	0.015778	0.0140
4 ORDSAT	-0.146275	-0.1232
5 SUPDEC	0.072563	0.0756
6 MESLEN	-0.034028	-0.0326
7 EZUND	-0.047759	-0.0446
8 LONYZ	-0.175001	-0.1700
9 SPKGRA	-0.029413	-0.0269
10 PMPCON	0.978805	1.0381
11 EZCOMP	-0.039073	-0.0362
12 CLRPIC	-0.111257	-0.1003
13 NOTAMS	-0.091704	-0.0755
14 HRLUP	0.105378	0.0829

HOTELLING'S TRACE CRITERION= 0.0592

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 246.3824 WITH 14. DEGREES OF FREEDOM P LESS THAN 0.0001

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

1
GADO

1 0.251109

HYPOTHESIS 7 1 DEGREE(S) OF FREEDOM

0,0,0,0,0,0,01,0,0, POWERPNT

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 1.4856

D.F.= 14. AND 4276.0000 P LESS THAN 0.1065

VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN
1 AMTNFO	0.7154	0.8827	0.3509	0.8827	0.3509
2 ACCNFO	0.0001	0.0001	0.9919	0.0574	0.8108
3 CONSAT	0.4232	0.5375	0.4656	1.1601	0.2837
4 ORDSAT	0.0588	0.0830	0.7743	0.1495	0.6989
5 SUPDEC	0.9170	0.8443	0.3621	0.7839	0.3779
6 MESLEN	0.0650	0.0708	0.7913	0.4020	0.5264
7 EZUND	0.0028	0.0032	0.9549	0.0004	0.9843
8 LDMYZ	0.0396	0.0420	0.8384	0.0560	0.8138
9 SPKGRA	1.4580	1.7459	0.1850	2.3969	0.1211
10 PMPCON	0.5229	0.4649	0.4988	0.6184	0.4338
11 EZCOMP	0.0095	0.0112	0.9164	0.0239	0.8778
12 CLRPIC	0.1655	0.2037	0.6539	1.0456	0.3052
13 NOTAMS	0.9650	1.4226	0.2311	1.5557	0.2113
14 HRLUP	7.5110	12.1251	0.0005	11.6532	0.0007

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 4289.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 7

VARIANCE OF CANONICAL VARIATE 1 = 0.0049 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.0048
M= 6.0 N= 2137.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

VARIABLE	RAW COEFFICIENT	STANDARDIZED
1 AMTNFO	0.298450	0.2687
2 ACCNFO	-0.038075	-0.0329
3 CONSAT	-0.328089	-0.2911
4 ORDSAT	0.057833	0.0487
5 SUPDEC	-0.232772	-0.2426
6 MESLEN	-0.344232	-0.3298
7 EZUND	-0.126657	-0.1183
8 LONYZ	0.053997	0.0525
9 SPKGRA	0.436248	0.3987
10 PMPCON	-0.261424	-0.2773
11 EZCOMP	-0.206478	-0.1915
12 CLRPIC	0.225750	0.2035
13 NOTAMS	0.042927	0.0354
14 HRLUP	1.054459	0.8299

HOTELLING'S TRACE CRITERION= 0.0349

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 20.7845 WITH 14. DEGREES OF FREEDOM P LESS THAN 0.1073

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

	1 POWERPNT
1	0.139437

HYPOTHESIS 8 1 DEGREE(S) OF FREEDOM

0,0,0,0,0,0,D1,0, OLD USE

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 3.4259

D.F.= 14. AND 4276.0000 P LESS THAN 0.0001

VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN

1	AMTNFO	2.9130	3.5939	0.0577	3.5939	0.0577
2	ACCNFO	0.5967	0.7974	0.3749	0.2085	0.5479
3	CONSAT	2.7133	3.4460	0.0629	1.5143	0.2173
4	ORDSAT	6.4368	9.0782	0.0026	5.2072	0.0225
5	SUPDEC	0.3073	0.2829	0.5971	0.2021	0.6541
6	MESLEN	13.3085	14.4950	0.0002	8.5633	0.0035
7	EZUND	0.1531	0.1753	0.6767	1.2164	0.2695
8	LONYZ	0.6440	0.6821	0.4112	4.2007	0.0402
9	SPKGRA	5.7550	6.8916	0.0087	1.4192	0.2324
10	PMPCON	1.1604	1.0317	0.3072	0.1618	0.6881
11	EZCOMP	7.4037	8.6097	0.0034	3.8864	0.0485
12	CLRPIC	5.1234	6.3061	0.0120	1.1193	0.2886
13	NOTAMS	4.8953	7.2166	0.0072	1.7116	0.1895
14	HRLUP	15.7939	25.4964	0.0001	14.8566	0.0002

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 4289.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 8

VARIANCE OF CANONICAL VARIATE 1 = 0.0112 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.0111
M= 6.0 N= 2137.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

VARIABLE	RAW COEFFICIENT	STANDARDIZED
1 AMTNFO	0.107886	0.0971
2 ACCNFO	0.065613	0.0568
3 CONSAT	-0.007543	-0.0067
4 ORDSAT	-0.324498	-0.2732
5 SUPDEC	0.161690	0.1685
6 MESLEN	-0.451160	-0.4323
7 EZUND	0.096979	0.0906
8 LONYZ	0.434349	0.4220
9 SPKGRA	-0.159922	-0.1461
10 PMPCON	0.049973	0.0530
11 EZCOMP	-0.239146	-0.2218
12 CLRPIC	-0.150869	-0.1360
13 NOTAMS	-0.012669	-0.0104
14 HRLUP	-0.785818	-0.6185

HOTELLING'S TRACE CRITERION= 0.0112

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 47.8271 WITH 14. DEGREES OF FREEDOM P LESS THAN 0.0001

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

1
OLD USE

1 8.984490D-02

HYPOTHESIS 9 1 DEGREE(S) OF FREEDOM

0,0,0,0,0,0,0,D1, NEW USE

F-RATIO FOR MULTIVARIATE TEST OF EQUALITY OF MEAN VECTORS= 9.5655

D.F.= 14. AND 4276.0000 P LESS THAN 0.0001

	VARIABLE	HYPOTHESIS MEAN SQ	UNIVARIATE F	P LESS THAN	STEP DOWN F	P LESS THAN
1	AMTNFO	37.1939	45.8891	0.0001	45.8891	0.0001
2	ACCNFO	25.6084	34.2224	0.0001	18.8882	0.0001
3	CONSAT	20.3938	25.9012	0.0001	4.0468	0.0442
4	ORDSAT	8.4136	11.8661	0.0006	0.0269	0.8698
5	SUPDEC	13.3008	12.2461	0.0005	1.0300	0.3076
6	MESLEN	38.4475	41.8752	0.0001	8.1710	0.0043
7	EZUND	1.6449	1.8839	0.1686	3.3153	0.0634
8	LONYZ	0.3957	0.4191	0.5199	2.9335	0.0864
9	SPKGRA	19.4907	23.3401	0.0001	1.6345	0.2005
10	PMPCON	10.6826	9.4977	0.0021	1.9919	0.1580
11	EZCOMP	35.7350	41.5562	0.0001	14.0860	0.0002
12	CLRPIC	18.8792	23.2375	0.0001	0.0287	0.8656
13	NOTAMS	26.2732	38.7317	0.0001	9.6188	0.0020
14	HRLUP	34.5722	55.8108	0.0001	20.8921	0.0001

DEGREES OF FREEDOM FOR HYPOTHESIS= 1
DEGREES OF FREEDOM FOR ERROR= 4289.

DISCRIMINANT ANALYSIS FOR HYPOTHESIS 9

VARIANCE OF CANONICAL VARIATE 1 = 0.0313 PER CENT OF CANONICAL VARIATION= 100.00 ROY'S CRITERION= 0.0304
M= 6.0 N= 2137.0

--DISCRIMINANT FUNCTION COEFFICIENTS--

VARIABLE	RAW COEFFICIENT	STANDARDIZED
1 AMTNFO	-0.298779	-0.2690
2 ACCNFO	-0.343242	-0.2969
3 CONSAT	-0.101136	-0.0897
4 ORDSAT	0.097258	0.0819
5 SUPDEC	-0.043524	-0.0454
6 MESLEN	-0.257290	-0.2465
7 EZUND	0.187746	0.1754
8 LONYZ	0.249640	0.2426
9 SPKGRA	-0.064533	-0.0590
10 PMPCON	-0.029244	-0.0310
11 EZCOMP	-0.337675	-0.3131
12 CLRPIC	0.041211	0.0371
13 NOTAMS	-0.189628	-0.1562
14 HRLJP	-0.563050	-0.4432

HOTELLING'S TRACE CRITERION= 0.0313

BARTLETT'S CHI SQUARE TEST FOR SIGNIFICANCE OF SUCCESSIVE CANONICAL VARIATES

FOR ROOTS 1 THROUGH 1 CHI SQUARE= 132.1106 WITH 14. DEGREES OF FREEDOM P LESS THAN 0.0001

CANONICAL FORM OF LEAST SQUARE ESTIMATES-VARIATES X EFFECTS

	1 NEW USE
1	0.187120

FSS CONTACT
PRE-FLIGHT AND IN-FLIGHT

This section presents the question 9 data obtained from the initial, follow-up, and supplementary survey returns of the primary questionnaire.

The material is discussed in volume I subsections under PILOT SURVEY entitled FSS CONTACT REDUCED and FSS CONTACT LENGTH.

COMBINED

CONTACT OF THE FSS FOR ADDITIONAL INFORMATION
AFTER LISTENING TO THE TRIAL PATHWAS
-PERCENTAGES-

	FSS CONTACTED NO	YES	TOTAL
PRE-FLIGHT FSS CONTACT	26.44	73.56	100.00
IN-FLIGHT FSS CONTACT	46.04	53.96	100.00
TOTAL	35.35	64.65	100.00

LENGTH OF FSS CONTACTS WHEN MADE

	LESS THAN 1 MINUTE	BETWEEN 1 TO 5 MINS.	BETWEEN 6 TO 10 MINS.	MORE THAN 10 MINS.	TOTAL NO. CONTACTS
PRE-FLIGHT FSS CONTACT	21.84	72.32	3.82	2.02	100.00
IN-FLIGHT FSS CONTACT	61.11	36.23	1.03	1.63	100.00
TOTAL	36.73	58.63	2.76	1.87	100.00

FOLLOW-UP

CONTACT OF THE FSS FOR ADDITIONAL INFORMATION
AFTER LISTENING TO THE TRIAL PATWAS
-PERCENTAGES-

	FSS CONTACTED NO	YES	TOTAL
PRE-FLIGHT FSS CONTACT	28.95	71.05	100.00
IN-FLIGHT FSS CONTACT	47.48	52.52	100.00
TOTAL	37.34	62.66	100.00

LENGTH OF FSS CONTACTS WHEN MADE

	LESS THAN 1 MINUTE	BETWEEN 1 TO 5 MINS.	BETWEEN 6 TO 10 MINS.	MORE THAN 10 MINS.	TOTAL NO. CONTACTS
PRE-FLIGHT FSS CONTACT	21.02	72.81	4.04	2.13	100.00
IN-FLIGHT FSS CONTACT	60.15	37.11	1.12	1.62	100.00
TOTAL	35.87	59.26	2.93	1.94	100.00

SUPPLEMENTAL

CONTACT OF THE FSS FOR ADDITIONAL INFORMATION
AFTER LISTENING TO THE TRIAL PATWAS
-PERCENTAGES-

	FSS CONTACTED NO	YES	TOTAL
PRE-FLIGHT FSS CONTACT	27.35	72.65	100.00
IN-FLIGHT FSS CONTACT	43.53	56.47	100.00
TOTAL	34.78	65.22	100.00

LENGTH OF FSS CONTACTS WHEN MADE

	LESS THAN 1 MINUTE	BETWEEN 1 TO 5 MINS.	BETWEEN 6 TO 10 MINS.	MORE THAN 10 MINS.	TOTAL NO. CONTACTS
PRE-FLIGHT FSS CONTACT	29.89	66.42	1.48	2.21	100.00
IN-FLIGHT FSS CONTACT	66.48	32.96	0.	0.56	100.00
TOTAL	44.44	53.11	0.89	1.56	100.00

SUPPLEMENTAL SURVEY

The primary questionnaire asked for volunteers who wished to participate in a follow-up survey. A summary of the results obtained from these returns is presented here. The material relates to the volume I discussion entitled SUPPLEMENTAL SURVEY.

NEW YORK PATWAS SURVEY
(SUPPLEMENTAL SURVEY)

HAS YOUR LICENSE/RATING CHANGED SINCE YOUR LAST REPORT

	NO	YES	TOTAL
NO. OF CALLS	957	62	1019
PERCENTAGE	93.92	6.08	100.00

PATWAS BRIEFING RECEIVED

	NORTHBOUND	SOUTH AND WESTBOUND	LOCAL	TOTAL
NO. OF CALLS	478	336	427	1241
PERCENTAGE	38.52	27.07	34.41	100.00

DO YOU LIKE SELECTING ONE BRIEFING FROM AMONG THREE ALTERNATIVES

	NO	YES	TOTAL
NO. OF CALLS	45	1081	1126
PERCENTAGE	4.00	96.00	100.00

WHAT FLIGHT CONDITIONS PREDOMINATED WHILE YOU WERE AIRBORNE

	VFR	MARGINAL VFR	IFR	TOTAL
NO. OF CALLS	668	279	168	1115
PERCENTAGE	59.91	25.02	15.07	100.00

NEW YORK PATWAS SURVEY
(SUPPLEMENTAL SURVEY)

DID THE BRIEFING RECEIVED FROM THE TRIAL PATWAS MAKE IT UNNECESSARY FOR YOU TO CALL THE FLIGHT SERVICE STATION FOR WEATHER INFORMATION

	NO		YES		UNCERTAIN		TOTAL	
PRE-FLIGHT	381	(34.02)	711	(63.48)	28	(2.50)	1120	(100.00)
IN-FLIGHT	281	(30.51)	618	(67.10)	22	(2.39)	921	(100.00)
TOTAL	662	(32.44)	1329	(65.12)	50	(2.45)	2041	(100.00)

IF YOU STILL HAD TO CALL THE FSS FOR WEATHER INFORMATION, DID THE BRIEFING RECEIVED FROM THE TRIAL PATWAS REDUCE THE TIME ON LINE WITH THE FSS

	NO		YES		TOTAL		AVER. OF PERCE. OF TIME REDUCED	MAX OF PERCE. OF TIME REDUCED	MIN OF PERCE. OF TIME REDUCED
PRE-FLIGHT	62	(12.86)	420	(87.14)	482	(100.00)	50.73	100	-0
IN-FLIGHT	85	(26.56)	235	(73.44)	320	(100.00)	44.25	100	-0
TOTAL	147	(18.33)	655	(81.67)	802	(100.00)	48.40		

NEW YORK PATWAS SURVEY
(SUPPLEMENTAL SURVEY)

WHEN WAS PATWAS CALLED
-NUMBER OF CALLS-

TIME	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	TOTAL
0 - 3	0(0.)	0(0.)	1(50.0)	4(8.7)	13(2.7)	10(2.2)	1(0.8)	29(2.5)
3 - 6	0(0.)	0(0.)	0(0.)	1(2.2)	5(1.0)	7(1.5)	3(2.3)	16(1.4)
6 - 9	0(0.)	0(0.)	1(50.0)	17(37.0)	139(28.8)	125(27.3)	34(26.0)	316(27.6)
9 - 12	1(100.0)	0(0.)	0(0.)	13(28.3)	127(26.3)	148(32.3)	43(32.8)	332(29.0)
12 - 15	0(0.)	4(16.0)	0(0.)	2(4.3)	82(17.0)	72(15.7)	21(16.0)	181(15.8)
15 - 18	0(0.)	2(8.0)	0(0.)	6(13.0)	73(15.1)	65(14.2)	14(10.7)	160(14.0)
18 - 21	0(0.)	1(4.0)	0(0.)	1(2.2)	28(5.8)	22(4.8)	13(9.9)	65(5.7)
21 - 24	0(0.)	18(72.0)	0(0.)	2(4.3)	15(3.1)	9(2.0)	2(1.5)	46(4.0)
TOTAL	1(100.0)	25(100.0)	2(100.0)	46(100.0)	482(100.0)	458(100.0)	131(100.0)	1143(100.0)

TELEPHONE ACTIVITY

Various measures of telephone activity were obtained and correlated with FSS observations of actual weather. The raw and partially processed data are presented in various segments on the following pages. The material is discussed in volume I section entitled TELEPHONE ACTIVITY.

PATWAS DATA REDUCTION

CALLS/DAY
CATEGORIZED BY ROUTE AND BY WEATHER CONDITION
GRAND TOTAL

	VFR	MVFR	IFR	TOTAL
LOCAL NYC AREA	278.59	400.92	592.00	316.82
ROUTES NORTHBOUND	97.35	136.54	176.00	108.13
ROUTES SOUTH + WESTBOUND	85.37	124.46	194.37	97.85
TOTAL	154.62	220.64	324.93	175.20

NUMBER OF CALLS
CATEGORIZED BY ROUTE AND BY TIME PERIOD
GRAND TOTAL

	11Z	18Z	23Z	TOTAL
LOCAL NYC AREA	7011	14622	9732	31365
ROUTES NORTHBOUND	2042	5586	3005	10633
ROUTES SOUTH + WESTBOUND	2029	4580	2785	9394
TOTAL	11082	24788	15522	51392

PATWAS DATA REDUCTION

NUMBER OF CALLS
CATEGORIZED BY ROUTE AND BY WEATHER CONDITION
GRAND TOTAL

	VFR	MVFR	IFR	TOTAL
LOCAL NYC AREA	22607	5212	4144	31365
ROUTES NORTHBOUND	7626	1775	1232	10633
ROUTES SOUTH + WESTBOUND	6545	1618	1231	9394
TOTAL	36180	8605	6607	51392

AVERAGE MESSAGE LENGTH
CATEGORIZED BY ROUTE AND BY WEATHER CONDITION
GRAND TOTAL

	VFR	MVFR	IFR	TOTAL
LOCAL NYC AREA	4.78	6.34	6.62	5.11
ROUTES NORTHBOUND	5.72	6.75	7.17	5.96
ROUTES SOUTH + WESTBOUND	5.52	6.90	7.55	5.84
TOTAL	5.34	6.66	7.10	5.64

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
4 / 1 / 76	A	53	68	85	0.	0.	0.	I	M	V
4 / 2 / 76	A	54	86	122	0.	0.	0.	V	V	V
4 / 3 / 76	A	80	119	110	0.	0.	0.	V	V	V
4 / 4 / 76	A	106	173	127	0.	0.	0.	V	V	V
4 / 5 / 76	A	47	60	67	0.	0.	0.	V	V	V
4 / 6 / 76	A	88	92	54	0.	0.	0.	V	V	V
4 / 7 / 76	A	36	88	49	0.	0.	0.	V	V	V
4 / 8 / 76	A	25	113	69	0.	0.	0.	V	V	V
4 / 9 / 76	A	40	88	80	0.	0.	6.08	V	V	V
4 / 10 / 76	A	50	94	56	4.25	3.45	5.33	V	V	V
4 / 11 / 76	A	78	180	48	5.33	5.25	4.83	V	V	V
4 / 12 / 76	A	39	68	75	4.27	5.00	4.05	V	V	V
4 / 13 / 76	A	24	75	46	3.53	5.62	3.58	V	V	V
4 / 14 / 76	A	24	52	41	3.73	4.93	3.83	V	V	V
4 / 15 / 76	A	38	58	97	0.	5.17	4.33	V	V	V
4 / 16 / 76	A	45	183	57	4.33	6.20	5.13	V	V	V
4 / 17 / 76	A	42	123	25	3.75	3.58	3.75	V	V	V
4 / 18 / 76	A	63	87	16	3.37	3.67	5.50	V	V	V
4 / 19 / 76	A	23	43	72	5.67	5.25	5.58	V	V	V
4 / 20 / 76	A	20	101	82	3.25	3.75	5.33	V	V	V
4 / 21 / 76	A	28	75	75	3.85	3.08	7.00	V	V	V
4 / 22 / 76	A	29	169	176	6.80	7.17	7.25	I	M	V
4 / 23 / 76	A	106	179	68	7.12	5.17	4.25	V	V	V
4 / 24 / 76	A	26	195	35	4.63	5.17	5.25	V	V	V
4 / 25 / 76	A	84	133	26	4.17	6.08	6.08	V	I	I
4 / 26 / 76	A	54	85	67	0.	7.08	6.17	V	M	V
4 / 27 / 76	A	40	83	62	4.12	6.25	6.83	V	V	V
4 / 28 / 76	A	29	69	183	3.78	4.08	6.42	V	V	V
4 / 29 / 76	A	18	97	69	3.40	3.83	3.08	V	V	V
4 / 30 / 76	A	26	70	102	4.77	4.42	4.18	V	V	V

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
4 / 1 / 76	B	17	32	33	0.	0.	0.	I	M	V
4 / 2 / 76	B	12	49	42	0.	0.	0.	V	V	V
4 / 3 / 76	B	24	51	21	0.	0.	0.	V	V	V
4 / 4 / 76	B	61	42	16	0.	0.	0.	V	V	V
4 / 5 / 76	B	7	15	26	0.	0.	0.	V	V	V
4 / 6 / 76	B	15	21	23	0.	0.	0.	V	V	V
4 / 7 / 76	B	3	29	9	0.	0.	0.	V	V	V
4 / 8 / 76	B	10	40	22	0.	0.	0.	V	V	V
4 / 9 / 76	B	7	29	35	0.	0.	5.67	V	V	V
4 / 10 / 76	B	12	28	24	4.75	4.45	6.83	V	V	V
4 / 11 / 76	B	23	58	6	7.47	6.08	5.67	V	V	V
4 / 12 / 76	B	12	21	22	4.67	5.67	4.93	V	V	V
4 / 13 / 76	B	10	18	13	4.33	5.83	5.17	V	V	V
4 / 14 / 76	B	10	14	16	4.97	5.83	4.75	V	V	V
4 / 15 / 76	B	14	24	36	0.	5.42	5.13	V	V	V
4 / 16 / 76	B	20	87	20	4.75	6.25	5.02	V	V	V
4 / 17 / 76	B	6	41	6	3.62	5.58	4.08	V	V	V
4 / 18 / 76	B	10	34	6	4.00	4.33	5.42	V	V	V
4 / 19 / 76	B	9	16	18	6.83	7.08	6.83	V	V	V
4 / 20 / 76	B	6	23	29	4.42	4.50	6.67	V	V	V
4 / 21 / 76	B	6	29	27	4.68	4.17	6.33	V	V	V
4 / 22 / 76	B	7	43	45	7.95	6.75	8.33	I	M	V
4 / 23 / 76	B	30	69	27	6.03	5.42	5.92	V	V	V
4 / 24 / 76	B	11	70	14	6.17	5.67	5.50	V	V	V
4 / 25 / 76	B	38	31	12	5.87	6.25	6.17	V	I	I
4 / 26 / 76	B	12	29	15	0.	8.33	7.92	V	M	V
4 / 27 / 76	B	12	26	17	5.80	7.92	7.00	V	V	V
4 / 28 / 76	B	12	30	45	5.17	6.75	6.00	V	V	V
4 / 29 / 76	B	11	32	12	4.42	4.67	3.20	V	V	V
4 / 30 / 76	B	6	37	43	5.05	4.25	5.43	V	V	V

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
4 / 1 / 76	C	21	32	25	0.	0.	0.	I	M	V
4 / 2 / 76	C	12	23	61	0.	0.	0.	V	V	V
4 / 3 / 76	C	23	29	19	0.	0.	0.	V	V	V
4 / 4 / 76	C	45	37	9	0.	0.	0.	V	V	V
4 / 5 / 76	C	9	24	13	0.	0.	0.	V	V	V
4 / 6 / 76	C	14	25	22	0.	0.	0.	V	V	V
4 / 7 / 76	C	6	25	15	0.	0.	0.	V	V	V
4 / 8 / 76	C	8	36	23	0.	0.	0.	V	V	V
4 / 9 / 76	C	13	27	29	0.	0.	6.42	V	V	V
4 / 10 / 76	C	29	27	9	4.58	4.83	7.17	V	V	V
4 / 11 / 76	C	17	59	6	8.33	6.00	5.83	V	V	V
4 / 12 / 76	C	7	21	18	5.50	5.92	5.05	V	V	V
4 / 13 / 76	C	8	23	16	4.00	5.17	4.33	V	V	V
4 / 14 / 76	C	10	28	17	5.08	5.05	4.58	V	V	V
4 / 15 / 76	C	21	27	45	0.	5.25	5.05	V	V	V
4 / 16 / 76	C	25	58	23	4.58	6.20	5.12	V	V	V
4 / 17 / 76	C	18	27	6	3.53	4.50	4.08	V	V	V
4 / 18 / 76	C	8	26	7	4.47	4.08	4.67	V	V	V
4 / 19 / 76	C	8	23	20	6.00	5.42	5.33	V	V	V
4 / 20 / 76	C	11	23	27	4.83	4.67	6.50	V	V	V
4 / 21 / 76	C	4	30	34	5.57	4.80	7.00	V	V	V
4 / 22 / 76	C	12	46	26	7.85	6.50	7.92	I	M	V
4 / 23 / 76	C	22	31	15	5.68	5.58	5.25	V	V	V
4 / 24 / 76	C	15	40	20	6.42	5.25	5.17	V	V	V
4 / 25 / 76	C	25	40	12	6.95	7.25	6.75	V	I	I
4 / 26 / 76	C	18	26	18	0.	8.75	7.75	V	M	V
4 / 27 / 76	C	11	44	15	7.00	8.17	7.58	V	V	V
4 / 28 / 76	C	11	23	29	5.70	5.50	5.50	V	V	V
4 / 29 / 76	C	3	30	11	4.98	5.17	3.25	V	V	V
4 / 30 / 76	C	4	26	43	5.12	3.00	5.42	V	V	V

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
5 / 1 / 76	A	89	122	48	0.	6.40	7.33	M	M	I
5 / 2 / 76	A	130	131	24	0.	5.38	5.00	V	V	V
5 / 3 / 76	A	93	123	60	6.00	6.35	4.08	M	V	V
5 / 4 / 76	A	34	105	53	3.28	4.43	5.05	V	V	V
5 / 5 / 76	A	28	91	156	4.07	4.47	5.75	V	V	V
5 / 6 / 76	A	30	123	98	4.40	6.00	6.08	V	V	V
5 / 7 / 76	A	54	132	102	6.33	7.50	7.07	V	V	V
5 / 8 / 76	A	96	160	47	5.15	3.58	3.33	V	V	V
5 / 9 / 76	A	28	84	5	3.08	4.28	3.25	V	V	V
5 / 10 / 76	A	17	39	43	3.50	3.33	3.58	V	V	V
5 / 11 / 76	A	16	93	211	3.85	5.08	6.30	V	V	I
5 / 12 / 76	A	49	95	63	6.42	6.17	4.97	M	V	V
5 / 13 / 76	A	13	68	70	0.	4.50	5.12	V	V	V
5 / 14 / 76	A	35	248	157	5.15	7.25	7.17	M	M	V
5 / 15 / 76	A	104	127	25	7.42	5.33	5.13	M	V	V
5 / 16 / 76	A	85	120	322	0.	6.12	7.08	I	I	I
5 / 17 / 76	A	34	105	97	0.	6.33	7.50	I	V	V
5 / 18 / 76	A	62	97	110	0.	8.30	6.87	I	V	V
5 / 19 / 76	A	65	122	104	0.	9.47	5.52	M	V	V
5 / 20 / 76	A	69	222	168	0.	5.05	7.67	V	V	V
5 / 21 / 76	A	55	228	92	5.75	7.17	5.33	M	M	V
5 / 22 / 76	A	34	144	40	4.53	4.00	2.75	V	V	V
5 / 23 / 76	A	39	90	32	0.	3.57	3.25	V	V	V
5 / 24 / 76	A	19	223	43	0.	4.42	4.50	V	V	V
5 / 25 / 76	A	25	103	68	0.	0.	4.78	V	V	V
5 / 26 / 76	A	25	74	47	0.	5.58	6.17	V	V	V
5 / 27 / 76	A	18	70	188	3.75	3.93	0.	V	V	V
5 / 28 / 76	A	1	64	73	5.05	3.92	4.00	V	V	V
5 / 29 / 76	A	76	121	30	5.08	0.	5.48	V	V	V
5 / 30 / 76	A	48	122	39	0.	7.00	7.67	I	M	M
5 / 31 / 76	A	73	276	19	0.	4.58	6.42	M	M	V

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
5 / 1 / 76	B	17	42	10	0.	6.22	7.08	M	M	I
5 / 2 / 76	B	20	37	2	0.	5.18	5.25	V	V	V
5 / 3 / 76	B	8	29	8	6.88	6.62	5.17	M	V	V
5 / 4 / 76	B	7	19	9	4.28	5.83	5.12	V	V	V
5 / 5 / 76	B	8	16	22	4.95	4.47	7.00	V	V	V
5 / 6 / 76	B	13	31	22	6.05	6.75	7.67	V	V	V
5 / 7 / 76	B	21	49	42	7.50	7.00	6.95	V	V	M
5 / 8 / 76	B	22	89	9	4.87	5.83	5.00	V	V	V
5 / 9 / 76	B	11	31	0	4.75	4.47	4.58	V	V	V
5 / 10 / 76	B	4	14	9	4.85	3.83	4.17	V	V	V
5 / 11 / 76	B	12	23	41	6.75	4.75	7.78	V	V	I
5 / 12 / 76	B	9	29	12	7.92	7.50	4.78	M	V	V
5 / 13 / 76	B	5	24	13	0.	4.67	5.05	V	V	V
5 / 14 / 76	B	15	85	43	5.27	6.75	7.33	M	M	V
5 / 15 / 76	B	15	30	10	7.33	5.17	5.50	M	V	V
5 / 16 / 76	B	25	30	10	0.	5.97	7.25	I	I	I
5 / 17 / 76	B	4	24	18	0..	7.67	8.17	I	V	V
5 / 18 / 76	B	14	26	20	0.	7.65	7.40	I	V	V
5 / 19 / 76	B	14	46	21	0.	7.45	7.10	M	V	V
5 / 20 / 76	B	19	58	40	0.	6.08	6.92	V	V	V
5 / 21 / 76	B	12	66	22	6.25	7.00	5.37	M	M	V
5 / 22 / 76	B	6	31	5	4.48	6.08	6.42	V	V	V
5 / 23 / 76	B	9	27	5	0.	4.17	4.92	V	V	V
5 / 24 / 76	B	11	24	18	0.	4.67	4.53	V	V	V
5 / 25 / 76	B	4	40	22	0.	0.	4.62	V	V	V
5 / 26 / 76	B	14	25	23	0.	5.92	6.20	V	V	V
5 / 27 / 76	B	9	24	58	4.45	4.97	0.	V	V	V
5 / 28 / 76	B	1	42	32	4.78	4.42	4.75	V	V	V
5 / 29 / 76	B	25	33	9	5.75	0.	5.62	V	V	V
5 / 30 / 76	B	16	25	11	0.	5.50	5.75	I	M	M
5 / 31 / 76	B	25	67	0	0.	5.75	7.33	M	M	V

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
5 / 1 / 76	C	29	32	12	0.	6.45	0.	M	M	I
5 / 2 / 76	C	32	25	3	0.	5.13	6.08	V	V	V
5 / 3 / 76	C	30	40	12	8.25	7.23	5.50	M	V	V
5 / 4 / 76	C	14	26	8	5.38	4.88	5.17	V	V	V
5 / 5 / 76	C	11	36	26	5.68	4.50	6.08	V	V	V
5 / 6 / 76	C	16	23	15	7.57	7.92	7.17	V	V	V
5 / 7 / 76	C	12	43	33	7.58	6.75	7.12	V	V	M
5 / 8 / 76	C	18	37	21	5.13	5.00	5.17	V	V	V
5 / 9 / 76	C	15	46	4	3.83	4.32	4.17	V	V	V
5 / 10 / 76	C	3	17	15	4.67	3.75	4.05	V	V	V
5 / 11 / 76	C	7	25	51	6.75	4.83	7.67	V	V	I
5 / 12 / 76	C	7	27	20	9.42	7.58	4.60	M	V	V
5 / 13 / 76	C	5	30	22	0.	4.08	5.27	V	V	V
5 / 14 / 76	C	11	75	45	5.18	7.05	7.33	M	M	V
5 / 15 / 76	C	28	46	13	7.50	5.42	6.00	M	V	V
5 / 16 / 76	C	15	44	12	0.	6.05	7.58	I	I	I
5 / 17 / 76	C	11	32	23	0..	6.75	8.33	I	V	V
5 / 18 / 76	C	9	26	33	0.	8.07	6.80	I	V	V
5 / 19 / 76	C	28	48	29	0.	8.02	8.13	M	V	V
5 / 20 / 76	C	14	36	32	0.	6.00	7.25	V	V	V
5 / 21 / 76	C	27	67	24	6.08	6.92	0.	M	M	V
5 / 22 / 76	C	17	45	9	4.67	4.33	4.17	V	V	V
5 / 23 / 76	C	8	35	6	0.	4.00	4.42	V	V	V
5 / 24 / 76	C	9	34	29	0.	4.08	4.60	V	V	V
5 / 25 / 76	C	12	36	30	0.	0.	5.25	V	V	V
5 / 26 / 76	C	9	40	40	0.	6.17	6.33	V	V	V
5 / 27 / 76	C	18	43	68	4.67	4.92	0.	V	V	V
5 / 28 / 76	C	7	39	43	4.97	4.83	6.58	V	V	V
5 / 29 / 76	C	47	52	19	6.17	0.	5.47	V	V	V
5 / 30 / 76	C	19	40	13	0.	6.67	6.92	I	M	M
5 / 31 / 76	C	35	68	9	0.	6.33	7.00	M	M	V

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
7 / 1 / 76	A	240	195	135	7.43	5.92	4.20	I	V	V
7 / 2 / 76	A	72	219	43	3.67	0.	3.08	V	V	V
7 / 3 / 76	A	45	110	52	5.20	4.25	7.08	V	V	V
7 / 4 / 76	A	34	87	54	4.67	4.33	7.17	V	V	V
7 / 5 / 76	A	28	94	16	6.58	2.50	6.50	M	V	V
7 / 6 / 76	A	12	55	70	5.75	4.75	4.67	M	V	V
7 / 7 / 76	A	44	179	112	5.45	7.00	6.80	V	M	V
7 / 8 / 76	A	67	214	52	6.75	0.	6.00	M	M	V
7 / 9 / 76	A	192	140	105	6.67	5.25	6.75	M	V	V
7 / 10 / 76	A	57	84	77	5.80	5.33	4.42	V	V	V
7 / 11 / 76	A	239	201	357	5.55	6.95	6.25	V	V	V
7 / 12 / 76	A	35	92	72	4.63	0.	6.50	V	V	V
7 / 13 / 76	A	112	153	93	4.57	5.00	5.33	V	M	V
7 / 14 / 76	A	56	157	164	4.28	6.00	7.17	V	V	V
7 / 15 / 76	A	63	67	60	4.37	4.67	4.15	V	V	V
7 / 16 / 76	A	36	239	127	7.70	7.50	7.75	V	M	I
7 / 17 / 76	A	79	196	22	7.08	4.42	4.83	M	V	V
7 / 18 / 76	A	30	65	8	3.67	4.08	3.83	V	V	V
7 / 19 / 76	A	18	55	34	3.87	3.42	3.92	V	V	V
7 / 20 / 76	A	31	52	76	4.50	3.62	3.50	V	V	V
7 / 21 / 76	A	250	104	82	4.25	0.	7.08	V	M	V
7 / 22 / 76	A	51	119	59	5.08	4.92	4.28	V	V	V
7 / 23 / 76	A	64	184	119	5.75	0.	5.67	V	M	I
7 / 24 / 76	A	91	215	32	0.	4.83	4.08	I	V	V
7 / 25 / 76	A	35	68	11	3.58	2.75	2.17	V	V	V
7 / 26 / 76	A	15	47	41	2.32	4.17	0.	V	V	V
7 / 27 / 76	A	29	126	78	5.83	4.25	9.67	V	V	V
7 / 28 / 76	A	17	85	68	5.17	3.25	3.08	M	V	V
7 / 29 / 76	A	56	158	80	7.00	7.17	6.87	I	I	I
7 / 30 / 76	A	68	172	122	6.72	6.67	0.	M	V	M
7 / 31 / 76	A	187	158	35	6.37	6.12	6.67	M	V	V

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITIONS		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
7 / 1 / 76	B	68	110	43	7.60	7.08	4.58	I	V	V
7 / 2 / 76	B	26	19	103	4.25	0.	7.33	V	V	V
7 / 3 / 76	B	14	41	13	0.	5.00	7.83	V	V	V
7 / 4 / 76	B	14	31	8	7.08	5.08	8.00	V	V	V
7 / 5 / 76	B	14	46	13	6.42	2.83	5.50	M	V	V
7 / 6 / 76	B	7	26	20	6.08	5.67	5.17	M	V	V
7 / 7 / 76	B	16	49	26	5.78	7.08	9.12	V	M	V
7 / 8 / 76	B	13	77	13	7.17	0.	9.67	M	M	V
7 / 9 / 76	B	33	61	31	7.08	6.83	7.37	M	V	V
7 / 10 / 76	B	14	79	14	6.33	5.75	6.25	V	V	V
7 / 11 / 76	B	39	67	23	8.55	7.13	6.83	V	V	V
7 / 12 / 76	B	13	50	22	6.17	0.	9.67	V	V	V
7 / 13 / 76	B	16	53	29	6.67	7.83	5.92	V	M	V
7 / 14 / 76	B	21	61	27	7.52	9.25	7.33	V	V	V
7 / 15 / 76	B	12	47	30	6.53	5.08	5.17	V	V	V
7 / 16 / 76	B	12	121	70	7.62	8.42	7.08	V	M	I
7 / 17 / 76	B	31	94	17	6.58	6.25	6.42	M	V	V
7 / 18 / 76	B	18	24	8	3.92	4.08	4.58	V	V	V
7 / 19 / 76	B	1	31	7	4.25	4.00	4.25	V	V	V
7 / 20 / 76	B	15	28	28	5.67	4.98	6.95	V	V	V
7 / 21 / 76	B	24	34	32	0.	0.	7.38	V	M	V
7 / 22 / 76	B	17	55	21	5.55	4.50	4.53	V	V	V
7 / 23 / 76	B	31	108	73	5.75	0.	6.50	V	M	[illegible]
7 / 24 / 76	B	29	93	15	0.	5.27	6.83	I	V	[illegible]
7 / 25 / 76	B	14	37	3	4.17	2.88	2.22	V	V	[illegible]
7 / 26 / 76	B	8	49	82	2.45	4.88	0.	V	V	V
7 / 27 / 76	B	12	88	26	7.67	7.25	8.08	V	V	V
7 / 28 / 76	B	12	50	26	6.08	5.00	3.33	M	V	V
7 / 29 / 76	B	28	81	42	5.83	6.08	7.28	I	I	[illegible]
7 / 30 / 76	B	25	124	83	6.28	6.25	0.	M	V	[illegible]
7 / 31 / 76	B	70	66	14	7.25	6.37	6.42	M	V	[illegible]

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
7 / 1 / 76	C	47	51	21	8.92	5.25	4.97	I	V	V
7 / 2 / 76	C	11	51	18	4.08	0.	3.75	V	V	V
7 / 3 / 76	C	9	27	7	5.50	5.50	6.92	V	V	V
7 / 4 / 76	C	6	14	7	6.83	4.67	6.50	V	V	V
7 / 5 / 76	C	11	30	11	6.33	2.75	5.42	M	V	V
7 / 6 / 76	C	10	24	18	5.67	5.00	0.	M	V	V
7 / 7 / 76	C	16	41	34	6.08	6.67	8.63	V	M	V
7 / 8 / 76	C	17	69	15	7.25	0.	9.28	M	M	V
7 / 9 / 76	C	37	37	26	6.83	5.25	7.28	M	V	V
7 / 10 / 76	C	10	18	3	6.08	5.58	6.08	V	V	V
7 / 11 / 76	C	19	16	101	8.28	6.37	7.25	V	V	V
7 / 12 / 76	C	53	40	73	6.83	0.	8.88	V	V	V
7 / 13 / 76	C	31	54	36	7.17	7.00	6.00	V	M	V
7 / 14 / 76	C	19	43	21	6.88	8.33	6.33	V	V	V
7 / 15 / 76	C	9	41	32	7.75	5.17	5.50	V	V	V
7 / 16 / 76	C	15	91	49	7.38	7.58	7.33	V	M	I
7 / 17 / 76	C	32	50	4	6.50	4.75	6.17	M	V	V
7 / 18 / 76	C	10	23	7	4.17	0.	5.08	V	V	V
7 / 19 / 76	C	4	21	8	0.	4.08	3.83	V	V	V
7 / 20 / 76	C	11	26	22	5.25	3.73	5.83	V	V	V
7 / 21 / 76	C	13	31	26	7.00	0.	0.	V	M	V
7 / 22 / 76	C	29	40	25	5.45	4.50	4.70	V	V	V
7 / 23 / 76	C	20	65	33	6.83	0.	8.25	V	M	I
7 / 24 / 76	C	19	47	9	0.	5.33	6.08	I	V	V
7 / 25 / 76	C	11	25	4	3.75	2.78	2.37	V	V	V
7 / 26 / 76	C	10	19	16	2.50	5.25	0.	V	V	V
7 / 27 / 76	C	18	60	17	6.17	7.28	5.50	V	V	V
7 / 28 / 76	C	7	27	17	6.08	3.17	3.47	M	V	V
7 / 29 / 76	C	18	50	36	7.58	7.58	7.37	I	I	I
7 / 30 / 76	C	30	67	47	6.38	0.	0.	M	V	M
7 / 31 / 76	C	56	46	6	7.33	6.50	6.58	M	V	V

PATWAS DATA PRODUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	16Z	23Z
8 / 1 / 76	A	81	152	21	5.[illegible]	0.	3.55	V	V	V
8 / 2 / 76	A	34	63	55	3.57	4.33	3.68	V	V	V
8 / 3 / 76	A	23	52	57	2.78	5.08	3.00	V	V	V
8 / 4 / 76	A	40	50	37	3.87	4.42	3.73	V	V	V
8 / 5 / 76	A	-0	-0	65	3.57	4.55	5.03	V	V	V
8 / 6 / 76	A	26	117	154	7.85	5.17	6.25	V	V	M
8 / 7 / 76	A	70	1[illegible]	71	7.08	4.72	5.92	I	V	V
8 / 8 / 76	A	58	146	60	6.75	5.92	6.00	I	I	M
8 / 9 / 76	A	118	513	522	0.	7.33	0.	I	I	I
8 / 10 / 76	A	205	105	75	8.00	5.28	4.05	M	V	V
8 / 11 / 76	A	28	74	35	3.75	2.47	6.83	V	V	V
8 / 12 / 76	A	77	46	67	3.60	0.	9.32	M	V	V
8 / 13 / 76	A	44	161	95	4.48	3.97	7.[illegible]	M	M	M
8 / 14 / 76	A	121	141	56	0.	4.03	[illegible]	V	V	V
8 / 15 / 76	A	81	216	43	5.50	4.60	[illegible].83	M	V	M
8 / 16 / 76	A	41	79	52	5.75	4.58	4.92	V	V	V
8 / 17 / 76	A	24	55	34	0..	3.50	4.38	V	V	V
8 / 18 / 76	A	18	41	38	3.55	4.67	4.42	V	V	V
8 / 19 / 76	A	17	39	36	0.	0.	2.70	V	V	V
8 / 20 / 76	A	17	55	38	2.17	0.	3.25	V	V	V
8 / 21 / 76	A	30	72	41	5.00	2.58	2.23	V	V	V
8 / 22 / 76	A	31	111	7	3.92	2.67	4.03	M	V	V
8 / 23 / 76	A	26	-0	-0	5.1[illegible]	0.	4.33	V	V	V
8 / 24 / 76	A	10	39	151	3.85	3.42	3.48	V	V	V
8 / 25 / 76	A	26	153	65	[illegible].83	4.83	4.80	M	V	V
8 / 26 / 76	A	44	151	109	4.50	5.07	8.42	I	I	M
8 / 27 / 76	A	83	142	122	0.	0.	9.00	M	I	I
8 / 28 / 76	A	94	182	72	7.65	4.28	5.67	M	V	M
8 / 29 / 76	A	186	148	61	5.63	0.	4.25	I	V	V
8 / 30 / 76	A	18	104	95	3.47	0.	0.	V	V	V
8 / 31 / 76	A	28	100	37	0.	0.	0.	V	V	V

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
8 / 1 / 76	B	21	72	11	0.	5.67	5.67	V	V	V
8 / 2 / 76	B	27	29	19	6.17	5.52	5.63	V	V	V
8 / 3 / 76	B	8	26	32	4.25	5.50	5.17	V	V	V
8 / 4 / 76	B	21	33	8	6.08	5.33	4.05	V	V	V
8 / 5 / 76	B	-0	-0	22	6.33	4.85	5.20	V	V	V
8 / 6 / 76	B	23	89	68	7.62	7.92	7.08	V	V	M
8 / 7 / 76	B	21	54	23	7.92	5.75	6.42	I	V	V
8 / 8 / 76	B	15	42	24	9.45	6.67	7.25	I	I	M
8 / 9 / 76	B	42	132	146	0.	6.32	0.	I	I	I
8 / 10 / 76	B	32	51	26	8.30	8.20	8.28	M	V	V
8 / 11 / 76	B	18	26	19	5.25	3.87	7.83	V	V	V
8 / 12 / 76	B	6	47	27	5.77	0.	6.62	M	V	V
8 / 13 / 76	B	14	109	55	4.62	5.33	7.33	M	M	M
8 / 14 / 76	B	50	54	19	0.	4.55	9.17	V	V	V
8 / 15 / 76	B	21	79	8	6.00	6.18	9.50	M	V	M
8 / 16 / 76	B	14	44	18	7.17	5.92	4.92	V	V	V
8 / 17 / 76	B	14	29	10	0.	4.72	5.42	V	V	V
8 / 18 / 76	B	12	23	21	5.18	4.83	5.33	V	V	V
8 / 19 / 76	B	4	29	21	4.03	0.	4.27	V	V	V
8 / 20 / 76	B	6	33	33	0.	0.	4.92	V	V	V
8 / 21 / 76	B	13	46	8	5.25	3.17	4.80	V	V	V
8 / 22 / 76	B	17	44	4	5.17	3.58	5.58	M	V	V
8 / 23 / 76	B	12	-0	-0	8.82	0.	4.80	V	V	V
8 / 24 / 76	B	11	34	11	5.58	4.75	4.83	V	V	V
8 / 25 / 76	B	6	51	22	5.83	6.00	6.07	M	V	V
8 / 26 / 76	B	7	79	40	7.60	6.38	9.00	I	I	M
8 / 27 / 76	B	41	68	53	0.	0.	8.50	M	I	I
8 / 28 / 76	B	27	60	20	6.78	5.50	6.33	M	V	V
8 / 29 / 76	B	19	77	16	8.70	0.	0.	I	V	V
8 / 30 / 76	B	7	-0	-0	5.25	0.	0.	V	V	V
8 / 31 / 76	B	18	20	13	0.	0.	0.	V	V	V

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
8 / 1 / 76	C	22	41	3	0.	0.	4.25	V	V	V
8 / 2 / 76	C	17	23	20	5.50	5.17	5.42	V	V	V
8 / 3 / 76	C	3	32	7	5.17	4.25	4.75	V	V	V
8 / 4 / 76	C	13	22	8	5.15	3.92	3.82	V	V	V
8 / 5 / 76	C	-0	-0	16	6.67	4.67	5.17	V	V	V
8 / 6 / 76	C	16	57	56	7.67	7.08	6.75	V	V	M
8 / 7 / 76	C	16	49	27	7.75	4.93	6.75	I	V	V
8 / 8 / 76	C	16	44	20	0.03	6.75	6.25	I	I	M
8 / 9 / 76	C	40	237	190	0.	6.23	0.	I	I	I
8 / 10 / 76	C	48	35	15	9.57	5.38	5.45	M	V	V
8 / 11 / 76	C	6	[illegible]	[illegible]	6.13	2.83	7.50	V	V	V
8 / 12 / 76	C	3	38	25	6.03	0.	6.38	M	V	V
8 / 13 / 76	C	15	70	23	4.78	5.17	7.00	M	M	M
8 / 14 / 76	C	33	32	9	0.	4.35	8.58	V	V	V
8 / 15 / 76	C	13	44	13	7.08	5.58	7.83	M	V	M
8 / 16 / 76	C	12	31	10	7.22	4.92	4.87	V	V	V
8 / 17 / 76	C	5	17	10	0..	4.53	5.45	V	V	V
8 / 18 / 76	C	6	24	12	4.53	4.85	4.08	V	V	V
8 / 19 / 76	C	8	13	10	0.	0.	3.32	V	V	V
8 / 20 / 76	C	10	23	28	4.42	0.	4.42	V	V	V
8 / 21 / 76	C	15	27	11	5.05	2.83	4.20	V	V	V
8 / 22 / 76	C	17	20	8	5.67	3.12	4.68	M	V	V
8 / 23 / 76	C	11	-0	-0	7.32	0.	3.08	V	V	V
8 / 24 / 76	C	10	18	12	5.90	4.67	4.75	V	V	V
8 / 25 / 76	C	7	28	20	8.30	0.	6.88	M	V	V
8 / 26 / 76	C	9	53	30	0.	5.38	8.75	I	I	M
8 / 27 / 76	C	27	50	39	0.	0.	8.83	M	I	I
8 / 28 / 76	C	28	43	23	7.13	4.42	6.17	M	V	[illegible]
8 / 29 / 76	C	27	61	12	8.25	0.	4.83	I	V	V
8 / 30 / 76	C	5	-0	-0	5.67	0.	0.	V	V	V
8 / 31 / 76	C	2	27	10	0.	0.	0.	V	V	V

PATWAS DATA REDUCTION

NUMBER OF CALLS
CATEGORIZED BY ROUTE AND BY WEATHER CONDITION
GRAND TOTAL

	VFR	MVFR	IFR	TOTAL
LOCAL NYC AREA	18605	3662	1421	23688
ROUTES NORTHBOUND	6561	1266	453	8280
ROUTES SOUTH + WESTBOUND	5612	964	409	6985
TOTAL	30778	5892	2283	38953

NUMBER OF CALLS
CATEGORIZED BY ROUTE AND BY TIME PERIOD
GRAND TOTAL

	11Z	18Z	23Z	TOTAL
LOCAL NYC AREA	4972	12074	6642	23688
ROUTES NORTHBOUND	1665	4343	2272	8280
ROUTES SOUTH + WESTBOUND	1485	3318	2182	6985
TOTAL	8122	19735	11096	38953

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
6 / 1 / 76	A	50	123	49				I	V	M
6 / 2 / 76	A	52	165	83				M	V	V
6 / 3 / 76	A	22	90	91				V	V	V
6 / 4 / 76	A	57	139	106				V	V	V
6 / 5 / 76	A	95	118	38				V	V	V
6 / 6 / 76	A	79	329	82				V	V	V
6 / 7 / 76	A	80	133	89				V	V	V
6 / 8 / 76	A	75	140	88				M	M	M
6 / 9 / 76	A	116	116	104				M	V	V
6 / 10 / 76	A	53	91	473				V	V	V
6 / 11 / 76	A	76	38	137				V	V	V
6 / 12 / 76	A	11	32	41				V	V	V
6 / 13 / 76	A	43	96	118				V	V	V
6 / 14 / 76	A	61	143	310				M	M	V
6 / 15 / 76	A	58	167	81				M	M	V
6 / 16 / 76	A	58	139	99				V	V	V
6 / 17 / 76	A	55	130	129				M	V	V
6 / 18 / 76	A	62	221	144				M	V	V
6 / 19 / 76	A	90	265	50				I	M	I
6 / 20 / 76	A	77	217	80				I	M	V
6 / 21 / 76	A	48	234	85				I	M	V
6 / 22 / 76	A	25	171	100				M	V	V
6 / 23 / 76	A	86	214	118				I	V	V
6 / 24 / 76	A	45	200	109				M	V	V
6 / 25 / 76	A	134	149	103				V	V	V
6 / 26 / 76	A	72	161	34				V	V	V
6 / 27 / 76	A	18	146	36				V	V	V
6 / 28 / 76	A	19	144	73				V	V	V
6 / 29 / 76	A	21	278	91				M	V	V
6 / 30 / 76	A	117	317	171				M	V	I

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
6 / 1 / 76	B	8	34	20				I	V	M
6 / 2 / 76	B	14	52	33				M	V	V
6 / 3 / 76	B	6	22	25				V	V	V
6 / 4 / 76	B	30	52	50				V	V	V
6 / 5 / 76	B	33	54	17				V	V	V
6 / 6 / 76	B	33	136	46				V	V	V
6 / 7 / 76	B	34	65	27				V	V	V
6 / 8 / 76	B	17	55	24				M	M	M
6 / 9 / 76	B	34	53	23				M	V	V
6 / 10 / 76	B	20	41	238				V	V	V
6 / 11 / 76	B	41	22	32				V	V	V
6 / 12 / 76	B	5	18	7				V	V	V
6 / 13 / 76	B	20	39	20				V	V	V
6 / 14 / 76	B	20	31	65				M	M	V
6 / 15 / 76	B	14	51	36				M	M	V
6 / 16 / 76	B	20	59	26				V	V	V
6 / 17 / 76	B	12	64	44				M	V	V
6 / 18 / 76	B	18	113	38				M	V	V
6 / 19 / 76	B	25	100	17				I	M	I
6 / 20 / 76	B	14	59	13				I	M	V
6 / 21 / 76	B	12	67	30				I	M	V
6 / 22 / 76	B	18	77	30				M	V	V
6 / 23 / 76	B	35	84	27				I	V	V
6 / 24 / 76	B	12	75	30				M	V	V
6 / 25 / 76	B	67	61	63				V	V	V
6 / 26 / 76	B	22	80	8				V	V	V
6 / 27 / 76	B	20	67	13				V	V	V
6 / 28 / 76	B	10	53	30				V	V	V
6 / 29 / 76	B	112	8	46				M	V	V
6 / 30 / 76	B	38	87	42				M	V	I

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
6 / 1 / 76	C	9	36	24				I		M
6 / 2 / 76	C	19	40	33				M	V	V
6 / 3 / 76	C	19	27	19				V	V	V
6 / 4 / 76	C	99	56	26				V	V	V
6 / 5 / 76	C	19	13	10				V	V	V
6 / 6 / 76	C	8	41	11				V	V	V
6 / 7 / 76	C	46	7	12				V	V	V
6 / 8 / 76	C	7	10	11				M	M	M
6 / 9 / 76	C	16	7	226				M	V	V
6 / 10 / 76	C	43	45	176				V	V	V
6 / 11 / 76	C	20	4	22				V	V	V
6 / 12 / 76	C	11	9	13				V	V	V
6 / 13 / 76	C	8	45	15				V	V	V
6 / 14 / 76	C	9	31	45				M	M	V
6 / 15 / 76	C	14	47	21				M	M	V
6 / 16 / 76	C	23	50	22				V	V	V
6 / 17 / 76	C	10	34	41				M	V	V
6 / 18 / 76	C	22	87	36				M	V	V
6 / 19 / 76	C	42	68	9				I	M	I
6 / 20 / 76	C	18	47	10				I	M	V
6 / 21 / 76	C	13	55	22				I	M	V
6 / 22 / 76	C	8	40	42				M	V	V
6 / 23 / 76	C	9	49	34				I	V	V
6 / 24 / 76	C	4	26	24				M	V	V
6 / 25 / 76	C	40	31	35				V	V	V
6 / 26 / 76	C	18	45	8				V	V	V
6 / 27 / 76	C	8	33	14				V	V	V
6 / 28 / 76	C	3	34	16				V	V	V
6 / 29 / 76	C	9	50	24				M	V	V
6 / 30 / 76	C	20	57	47				M	V	I

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
9 / 1 / 76	A	39	201	105				V	V	V
9 / 2 / 76	A	-0	-0	75					M	V
9 / 3 / 76	A	62	74	46				V	V	V
9 / 4 / 76	A	38	169	46				V	V	V
9 / 5 / 76	A	69	276	33				I	V	V
9 / 6 / 76	A	59	94	16				V	V	V
9 / 7 / 76	A	19	50	42				V	V	V
9 / 8 / 76	A	-0	-0	47					V	V
9 / 9 / 76	A	45	69	52				V	V	V
9 / 10 / 76	A	155	64	94				I	I	V
9 / 11 / 76	A	78	103	46				V	V	V
9 / 12 / 76	A	31	94	10				V	V	V
9 / 13 / 76	A	-0	-0	33					V	V
9 / 14 / 76	A	18	67	32				V	V	V
9 / 15 / 76	A	41	111	78				V	V	V
9 / 16 / 76	A	55	110	59				V	M	V
9 / 17 / 76	A	64	192	123				I	V	V
9 / 18 / 76	A	83	257	34				I	V	V
9 / 19 / 76	A	40	122	21				V	V	V
9 / 20 / 76	A	23	75	66				V	V	V
9 / 21 / 76	A	44	130	65				M	V	V
9 / 22 / 76	A	39	167	38				V	V	V
9 / 23 / 76	A	31	95	67				V	V	V
9 / 24 / 76	A	35	80	70				V	V	V
9 / 25 / 76	A	35	70	31				V	V	V
9 / 26 / 76	A	71	186	16				V	V	V
9 / 27 / 76	A	34	111	47				M	V	M
9 / 28 / 76	A	39	51	14				V	V	V
9 / 29 / 76	A	61	66	35				V	V	V
9 / 30 / 76	A	33	104	84				M	M	M

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
9 / 1 / 76	B	19	31	29				V	V	V
9 / 2 / 76	B	-0	-0	32					M	V
9 / 3 / 76	B	25	62	36				V	V	V
9 / 4 / 76	B	24	76	12				V	V	V
9 / 5 / 76	B	27	111	21				I	V	V
9 / 6 / 76	B	22	58	6				V	V	V
9 / 7 / 76	B	7	16	12				V	V	V
9 / 8 / 76	B	-0	-0	22					V	V
9 / 9 / 76	B	10	22	14				V	V	V
9 / 10 / 76	B	34	56	49				I	I	V
9 / 11 / 76	B	26	48	10				V	V	V
9 / 12 / 76	B	22	34	3				V	V	V
9 / 13 / 76	B	-0	-0	13					V	V
9 / 14 / 76	B	9	30	13				V	V	V
9 / 15 / 76	B	13	47	15				V	V	V
9 / 16 / 76	B	11	38	22				V	M	V
9 / 17 / 76	B	19	69	53				I	V	V
9 / 18 / 76	B	22	87	8				I	V	V
9 / 19 / 76	B	20	65	4				V	V	V
9 / 20 / 76	B	3	37	22				V	V	V
9 / 21 / 76	B	18	32	13				M	V	V
9 / 22 / 76	B	14	101	35				V	V	V
9 / 23 / 76	B	11	30	15				V	V	V
9 / 24 / 76	B	2	54	36				V	V	V
9 / 25 / 76	B	17	32	13				V	V	V
9 / 26 / 76	B	21	54	9				V	V	M
9 / 27 / 76	B	5	29	11				M	V	M
9 / 28 / 76	B	10	38	9				V	V	V
9 / 29 / 76	B	3	27	11				V	V	V
9 / 30 / 76	B	10	34	37				M	V	M

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
9 / 1 / 76	C	5	42	32				V	V	V
9 / 2 / 76	C	-0	-0	23					M	V
9 / 3 / 76	C	22	49	29				V	V	V
9 / 4 / 76	C	14	59	11				V	V	V
9 / 5 / 76	C	18	78	6				I	V	V
9 / 6 / 76	C	21	36	2				V	V	V
9 / 7 / 76	C	6	23	8				V	V	V
9 / 8 / 76	C	-0	-0	10					V	V
9 / 9 / 76	C	7	29	17				V	V	V
9 / 10 / 76	C	55	20	31				I	I	V
9 / 11 / 76	C	31	30	10				V	V	V
9 / 12 / 76	C	9	19	2				V	V	V
9 / 13 / 76	C	-0	-0	8					V	V
9 / 14 / 76	C	11	28	13				V	V	V
9 / 15 / 76	C	14	29	22				V	V	V
9 / 16 / 76	C	27	35	22				V	M	V
9 / 17 / 76	C	20	53	45				I	V	V
9 / 18 / 76	C	25	89	4				I	V	V
9 / 19 / 76	C	3	28	8				V	V	V
9 / 20 / 76	C	6	29	18				V	V	V
9 / 21 / 76	C	21	36	26				M	V	V
9 / 22 / 76	C	10	96	13				V	V	V
9 / 23 / 76	C	8	21	11				V	V	V
9 / 24 / 76	C	14	32	23				V	V	V
9 / 25 / 76	C	-0	-0	11				V	V	V
9 / 26 / 76	C	12	53	5				V	V	M
9 / 27 / 76	C	18	30	10				V	V	M
9 / 28 / 76	C	10	29	14				V	V	V
9 / 29 / 76	C	11	38	7				V	V	V
9 / 30 / 76	C	7	46	30				M	M	M

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS 11Z	NO. OF CALLS 18Z	NO. OF CALLS 23Z	LENGTH (MINS.) 11Z	LENGTH (MINS.) 18Z	LENGTH (MINS.) 23Z	WEATHER CONDITION 11Z	WEATHER CONDITION 18Z	WEATHER CONDITION 23Z
10 / 1 / 76	A	23	131	129				I	I	M
10 / 2 / 76	A	117	192	46				M	V	V
10 / 3 / 76	A	119	175	30				M	M	M
10 / 4 / 76	A	66	80	25				V	V	V
10 / 5 / 76	A	40	119	104				V	V	V
10 / 6 / 76	A	52	154	83				I	M	M
10 / 7 / 76	A	46	140	73				I	V	V
10 / 8 / 76	A	49	170	88				V	V	V
10 / 9 / 76	A	87	188	92				I	M	V
10 / 10 / 76	A	57	262	29				V	V	V
10 / 11 / 76	A	38	110	23				V	V	V
10 / 12 / 76	A	18	-0	-0				V		V
10 / 13 / 76	A	29	47	37				V	V	V
10 / 14 / 76	A	158	57	45				V	V	V
10 / 15 / 76	A	24	357	73				V	V	V
10 / 16 / 76	A	73	154	38				V	V	V
10 / 17 / 76	A	58	162	179				V	V	V
10 / 18 / 76	A	69	-0	-0				V	V	V
10 / 19 / 76	A	94	60	41				V	V	V
10 / 20 / 76	A	42	87	75				V	V	I
10 / 21 / 76	A	42	124	73					V	V
10 / 22 / 76	A	42	118	80				V	V	V
10 / 23 / 76	A	73	144	41				V	V	V
10 / 24 / 76	A	105	220	21				V	V	M
10 / 25 / 76	A	48	87	65				M	M	M
10 / 26 / 76	A	40	125	68				V	V	V
10 / 27 / 76	A	29	94	61				V	V	V
10 / 28 / 76	A	47	52	44				V	V	V
10 / 29 / 76	A	12	65	48				V	V	V
10 / 30 / 76	A	39	121	53				V	V	V
10 / 31 / 76	A	40	165	19				V	V	V

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
10 / 1 / 76	B	7	67	55				I	I	M
10 / 2 / 76	B	23	68	6				M	V	V
10 / 3 / 76	B	35	64	7				M	M	M
10 / 4 / 76	B	20	20	9				V	V	V
10 / 5 / 76	B	7	35	22				V	V	V
10 / 6 / 76	B	13	42	27				I	M	M
10 / 7 / 76	B	14	40	19				I	V	V
10 / 8 / 76	B	15	76	62				V	V	V
10 / 9 / 76	B	26	72	17				I	M	V
10 / 10 / 76	B	24	64	5				V	V	V
10 / 11 / 76	B	12	33	5				V	V	V
10 / 12 / 76	B	8	-0	-0				V		V
10 / 13 / 76	B	12	12	13				V	V	V
10 / 14 / 76	B	10	31	21				V	V	V
10 / 15 / 76	B	9	60	19				V	V	V
10 / 16 / 76	B	20	60	10				V	V	V
10 / 17 / 76	B	22	48	50				V	V	V
10 / 18 / 76	B	12	17	19				V	V	V
10 / 19 / 76	B	10	22	10				V	V	V
10 / 20 / 76	B	10	29	15				V	V	I
10 / 21 / 76	B	4	34	15					V	V
10 / 22 / 76	B	18	52	30				V	V	V
10 / 23 / 76	B	23	51	26				V	V	V
10 / 24 / 76	B	30	50	9				V	V	M
10 / 25 / 76	B	13	28	13				M	M	M
10 / 26 / 76	B	6	33	22				V	V	V
10 / 27 / 76	B	15	27	12				V	V	V
10 / 28 / 76	B	28	23	11				V	V	V
10 / 29 / 76	B	5	23	18				V	V	V
10 / 30 / 76	B	20	40	13				V	V	V
10 / 31 / 76	B	6	25	7				V	V	V

PATWAS DATA REDUCTION

DATE	LINE	NO. OF CALLS			LENGTH (MINS.)			WEATHER CONDITION		
		11Z	18Z	23Z	11Z	18Z	23Z	11Z	18Z	23Z
10 / 1 / 76	C	4	56	55				I	I	[illegible]
10 / 2 / 76	C	6	104	17				M	V	[illegible]
10 / 3 / 76	C	37	47	15				M	M	[illegible]
10 / 4 / 76	C	24	17	6				V	V	[illegible]
10 / 5 / 76	C	19	26	25				V	V	[illegible]
10 / 6 / 76	C	23	48	18				I	M	[illegible]
10 / 7 / 76	C	11	39	30				I	V	[illegible]
10 / 8 / 76	C	27	67	45				V	V	V
10 / 9 / 76	C	30	67	22				I	M	V
10 / 10 / 76	C	37	47	10				V	V	V
10 / 11 / 76	C	8	24	6				V	V	V
10 / 12 / 76	C	5	-0	-0				V		V
10 / 13 / 76	C	16	22	15				V	V	V
10 / 14 / 76	C	15	32	27				V	V	V
10 / 15 / 76	C	6	77	28				V	V	V
10 / 16 / 76	C	29	30	11				V	V	V
10 / 17 / 76	C	15	36	59				V	V	V
10 / 18 / 76	C	6	17	81				V	V	V
10 / 19 / 76	C	-0	-0	-0				V	V	I
10 / 20 / 76	C	14	35	36				V	V	V
10 / 21 / 76	C	14	34	20					V	V
10 / 22 / 76	C	7	47	36				V	V	V
10 / 23 / 76	C	15	50	5				V	V	M
10 / 24 / 76	C	24	39	7				V	V	M
10 / 25 / 76	C	23	30	21				M	M	M
10 / 26 / 76	C	21	21	12				V	V	V
10 / 27 / 76	C	19	23	15				V	V	V
10 / 28 / 76	C	12	11	4				V	V	V
10 / 29 / 76	C	7	20	17				V	V	V
10 / 30 / 76	C	8	37	12				V	V	V
10 / 31 / 76	C	4	34	8				V	V	V

HOURS	TOTAL MESSAGE ACTIVITY	TOTAL AVERAGE MIN	TOTAL AVERAGE SEC	IFR MESSAGE ACTIVITY	IFR AVERAGE MIN	IFR AVERAGE SEC	VFR MESSAGE ACTIVITY	VFR AVERAGE MIN	VFR AVERAGE SEC	MVFR MESSAGE ACTIVITY	MVFR AVERAGE MIN	MVFR AVERAGE SEC
00-01	467	3	38	60	3	23	314	3	31	93	4	9
01-02	278	3	32	43	3	14	185	3	18	50	4	40
02-03	174	3	21	30	2	53	118	3	14	26	4	24
03-04	71	3	12	7	6	47	51	2	47	13	2	55
04-05	107	3	15	13	3	22	65	3	3	29	3	38
05-06	218	3	9	32	3	20	150	3	10	36	2	55
06-07	1134	3	45	127	3	1	728	3	48	279	3	58
07-08	2079	4	17	198	4	49	1420	4	7	461	4	31
08-09	2734	4	3	286	4	44	1868	3	59	580	3	53
09-10	3074	3	49	99	4	21	2348	3	53	627	3	27
10-11	2795	3	47	122	4	11	2197	3	49	476	3	32
11-12	2307	3	50	78	3	24	1766	3	46	463	4	11
12-13	2135	3	46	107	4	30	1581	3	43	447	3	44
13-14	2076	3	45	102	4	33	1464	3	42	510	3	44
14-15	2286	3	31	131	3	55	1589	3	27	566	3	38
15-16	2403	3	30	156	4	3	1652	3	20	595	3	49
16-17	2655	3	28	443	4		1839	3	19	173	3	49
17-18	1581	3	25	325	3	50	1148	3	12	108	4	35
18-19	928	3	36	189	3	51	672	3	27	67	4	22
19-20	784	3	43	150	3	53	555	3	44	79	3	15
20-21	715	3	43	147	4	5	523	3	29	45	5	7
21-22	817	3	37	164	3	36	590	3	33	63	4	26
22-23	846	3	16	171	3	16	627	3	8	48	4	55
23-24	695	3	29	132	3	36	515	3	25	48	3	57
TOTAL	33159	3	43									

CAB LINE USAGE

	LOCAL	SOUTHWEST	NORTHEAST
00-01	3	2	2
01-02	3	2	2
02-03	4	2	1
03-04	2	1	1
04-05	2	1	1
05-06	3	2	2
06-07	6	4	3
07-08	8	6	4
08-09	8	6	4
09-10	9	8	5
10-11	8	6	4
11-12	8	7	3
12-13	7	5	3
13-14	7	4	4
14-15	8	4	4
15-16	8	6	4
16-17	7	5	4
17-18	7	5	4
18-19	5	3	2
19-20	5	4	2
20-21	5	2	2
21-22	4	4	2
22-23	6	5	2
23-24	3	2	3

QUESTIONNAIRE DATA (INITIAL AND FOLLOW-UP)

The questionnaire data obtained from responses to the initial and follow-up mailings are contained in this section. The material is discussed in volume I.

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS

CHARACTERISTIC	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
AMOUNT OF INFORMATION PROVIDED	287	403	1822	2812
ACCURACY OF INFORMATION PROVIDED	165	1149	1157	2471
ADEQUACY TO SUPPORT A GO/NO-GO DECISION	202	887	1408	2497
YOUR SATISFACTION WITH BRIEFING	236	474	1762	2472
ORDER IN WHICH INFORMATION IS PRESENTED	235	947	1270	2452
MESSAGE LENGTH	312	752	1375	2439
QUALITY OF SPEAKING VOICE	218	1297	950	2465
AMOUNT OF BACKGROUND NOISE	223	1372	875	2470
SPEAKING RATE	182	1478	805	2465
CONNECTED PROMPTLY TO RECORDED MESSAGE	220	1115	1130	2465
MINIMIZES ADDITIONAL PREFLIGHT INFORMATION FROM FSS	197	644	1621	2462
MINIMIZES ADDITIONAL INFLIGHT INFORMATION FROM FSS	159	998	1256	2413
EASE OF COMPREHENSION	197	1077	1191	2465
USEFULLNESS OF INFORMATION	194	552	1716	2462
RESPONSIVE TO YOUR NEEDS	205	592	1661	2458
PROVIDES A CLEAR MENTAL PICTURE OF THE WEATHER	197	756	1521	2474
AMOUNT OF UNNECESSARY INFORMATION PROVIDED	315	1168	917	2400
TOTAL	3744	15661	22437	41842

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
PILOT LICENSE

TYPE OF PILOT LICENSE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
STUDENT	377	1169	1522	3068
PRIVATE	2020	8612	12349	22981
COMMERCIAL	1099	4925	7325	13349
AIRLINE	223	875	1203	2301
TOTAL	3719	15581	22399	41699

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
WEATHER RATING

TYPE OF WEATHER RATING	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
IFR	1312	6378	9855	17545
VFR	2407	9203	12544	24154
TOTAL	3719	15581	22399	41699

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
ENGINE LICENSE

TYPE OF ENGINE LICENSE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
MULTI	983	4401	6299	11683
SINGLE	2610	10851	15529	28990
TOTAL	3593	15252	21828	40673

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
FLYING TIME

FLYING TIME(HOURS)	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-400	1865	7644	10663	20172
401-800	561	2555	4037	7153
801-1600	469	2233	3451	6153
1601-3200	419	1624	2035	4078
3200+	430	1605	2251	4286
TOTAL	3744	15661	22437	41842

COMPARISON BETWEEN BASIC AND TRIAL PATHS
CATEGORIZED BY
GADO

GADO	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
FARMINGDALE	2141	9496	13898	25535
TETERBORO	1385	5476	7804	14665
TOTAL	3526	14972	21702	40200

COMPARISON BETWEEN BASIC AND TRIAL PATHS
CATEGORIZED BY
TYPE OF POWER PLANT MOST FREQUENTLY FLOWN

TYPE OF POWER PLANT	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
PISTON	3469	14596	21277	39342
TURBO	65	264	312	641
JET	188	680	765	1633
TOTAL	3722	15540	22354	41616

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
DIFFERENT COUNTIES OF RESIDENCE

COUNTY OF RESIDENCE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
QUEENS	272	1138	1856	3266
PASSAIC	136	543	639	1318
MANHATTAN	248	966	1736	2950
BROOKLYN	110	543	831	1484
NASSAU	511	2352	3524	6387
BRONX	65	214	213	492
HUNTERDON	0	2	15	17
HUDSON	47	204	325	576
BERGEN	298	1342	2117	3757
RICHMOND	34	202	378	614
MIDDLESEX	105	465	753	1323
MONMOUTH	205	736	1140	2081
MORRIS	248	778	1031	2057
WESTCHESTER	231	1195	1624	3050
ORANGE	86	272	234	592
SUFFOLK	423	1846	2431	4700
SULLIVAN	1	23	60	84
ROCKLAND	54	305	384	743
SOMERSET	26	79	65	170
PUTNAM	15	98	73	186
ESSEX	142	742	943	1827
UNION	165	517	666	1348
SUSSEX	4	25	56	85
MERCER	9	39	54	102
DUTCHESS	68	222	410	700
ULSTER	23	112	118	253
TOTAL	3526	14960	21676	40162

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT ANNUAL FLYING TIME

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-20	589	2380	3201	6170
21-50	959	3916	5757	10632
51-100	1099	4446	6516	12061
101-200	508	2833	4210	7551
201-400	337	1193	1717	3247
400+	252	893	1036	2181
TOTAL	3744	15661	22437	41842

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT BASIC PATWAS LISTENING

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-20	2678	10596	14399	27673
21-50	703	3025	4675	8403
51-100	186	1247	2114	3547
101-200	95	428	636	1159
201-400	48	186	373	607
400+	34	179	240	453
TOTAL	3744	15661	22437	41842

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
DIFFERENT TRIAL PATHWAS LISTENING

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-5	1488	5239	5917	12644
6-10	696	3034	4096	7826
11-20	684	3018	4783	8485
21-40	462	2357	3842	6661
40+	414	2013	3799	6226
TOTAL	3744	15661	22437	41842

REACTIONS TO TRIAL PATWAS STATEMENTS

STATEMENT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
TOO MUCH INFORMATION IS PROVIDED	947	2368	422	311	43	4091
NOT ENOUGH INFORMATION IS PROVIDED	388	1898	817	815	103	4021
THE INFORMATION PROVIDED IS ACCURATE	26	203	814	2833	164	4040
THE CONTENT OF THE BRIEFING WAS SATISFACTORY	29	296	335	3151	228	4039
THE ORDER IN WHICH THE INFORMATION IS PRESENTED IS SATISFACTORY	48	266	504	3074	180	4072
THE INFORMATION IS SUFFICIENT TO MAKE A DECISION TO FLY OR NOT TO FLY	133	661	761	2177	358	4090
THE MESSAGE IS TOO LONG	264	2335	762	557	113	4031
THE MESSAGE IS TOO SHORT	312	2304	898	391	50	3955
THE SPEAKER IS EASY TO UNDERSTAND	91	370	337	2891	406	4095
THE BACKGROUND NOISE IS SUFFICIENTLY LOW	112	375	348	2933	297	4065
THE SPEAKER TALKED TOO SLOWLY	343	3051	455	143	21	4013
THE SPEAKER TALKED TOO FAST	233	2550	557	587	89	4016
THE RECORDED MESSAGE WAS OBTAINED PROMPTLY AFTER DIALING	213	447	279	2579	581	4099
IT IS EASY TO COMPREHEND THE INFORMATION	37	260	332	3061	340	4030
THE INFORMATION PROVIDES A CLEAR MENTAL PICTURE OF THE WEATHER	63	414	805	2562	249	4093
THE NOTAMS AND FLIGHT PRECAUTIONS ARE USEFUL	23	94	310	2718	940	4085
IT IS HELPFUL TO HAVE THE INFORMATION UPDATED HOURLY	27	46	202	1925	1915	4115
TOTAL	3289	17938	8938	32708	6077	68950
TOTAL (TO ALL TRIAL PATWAS STATEMENTS FOR WHICH STRONGLY AGREE = FAVARABLE)	802	3432	5027	29904	5658	44823

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
PILOT LICENSE
(STRONGLY AGREE = FAVORABLE)

TYPE OF PILOT LICENSE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STUDENT	70	315	632	2749	524	4290
PRIVATE	440	1935	2746	17078	3187	25386
COMMERCIAL	241	979	1428	8492	1677	12817
AIRLINE	41	197	212	1540	264	2254
TOTAL	792	3426	5018	29859	5652	44747

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
WEATHER RATING
(STRONGLY AGREE = FAVORABLE)

TYPE OF WEATHER RATING	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
IFR	332	1366	1820	11242	2059	16819
VFR	460	2060	3198	18617	3593	27928
TOTAL	792	3426	5018	29859	5652	44747

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
ENGINE LICENSE
(STRONGLY AGREE = FAVORABLE)

TYPE OF ENGINE LICENSE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
MULTI	217	937	1240	7595	1374	11363
SINGLE	547	2406	3659	21570	4143	32325
TOTAL	764	3343	4899	29165	5517	43688

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
FLYING TIME
(STRONGLY AGREE = FAVORABLE)

FLYING TIME(HOURS)	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-400	435	1873	2861	16187	3307	24663
401-800	98	485	690	4590	853	6716
801-1600	106	474	631	3739	673	5623
1601-3200	83	305	413	2558	354	3713
3200+	80	295	432	2830	471	4108
TOTAL	802	3432	5027	29904	5658	44823

REACTIONS TO TRIAL PATHAS STATEMENTS
CATEGORIZED BY
GADO
(STRONGLY AGREE = FAVORABLE)

GADO	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
FARMINGDALE	375	1911	3005	18129	3520	26940
TETERBORO	379	1354	1796	10645	1945	16119
TOTAL	754	3265	4801	28774	5465	43059

REACTIONS TO TRIAL PATHAS STATEMENTS
CATEGORIZED BY
TYPE OF POWER PLANT MOST FREQUENTLY FLOWN
(STRONGLY AGREE = FAVORABLE)

TYPE OF POWER PLANT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
PISTON	745	3253	4662	28081	5322	42063
TURBO	8	60	112	484	111	775
JET	33	110	220	1125	195	1683
TOTAL	786	3423	4994	29690	5628	44521

REACTIONS TO TRIAL PATHAS STATEMENTS
CATEGORIZED BY
DIFFERENT COUNTIES OF RESIDENCE
(STRONGLY AGREE = FAVORABLE)

COUNTY OF RESIDENCE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
QUEENS	34	188	268	1942	465	2897
PASSAIC	35	144	139	936	169	1423
MANHATTAN	51	207	324	1947	453	2982
BROOKLYN	21	132	178	988	189	1508
NASSAU	91	473	652	4299	784	6299
BRONX	9	46	55	410	65	585
HUNTERDON	0	7	3	30	2	42
HUDSON	7	54	63	395	74	593
BERGEN	96	342	469	2857	477	4241
RICHMOND	11	50	65	455	58	639
MIDDLESEX	27	135	149	941	165	1417
MONMOUTH	53	145	271	1302	242	2013
MORRIS	62	199	241	1690	302	2494
WESTCHESTER	47	247	354	2203	424	3275
ORANGE	10	36	107	519	86	758
SUFFOLK	74	358	599	3477	619	5127
SULLIVAN	0	2	5	82	10	99
ROCKLAND	11	62	110	581	106	870
SOMERSET	4	25	19	135	33	216
PUTNAM	5	26	39	264	82	416
ESSEX	60	179	221	1242	287	1989
UNION	28	111	191	1004	172	1506
SUSSEX	3	1	7	58	7	76
MERCER	3	9	20	52	14	98
DUTCHESS	8	58	159	651	124	1000
ULSTER	3	25	84	277	52	441
TOTAL	753	3261	4792	28737	5461	43004

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT ANNUAL FLYING TIME
(STRONGLY AGREE = FAVORABLE)

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-20	123	452	1139	4771	808	7293
21-50	156	882	1336	7994	1446	11814
51-100	253	980	1311	8590	1793	12927
101-200	156	687	683	5075	957	7558
201-400	70	242	274	1969	369	2924
400+	44	189	284	1505	285	2307
TOTAL	802	3432	5027	29904	5658	44823

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT BASIC PATWAS LISTENING
(STRONGLY AGREE = FAVORABLE)

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-20	614	2612	4127	23357	4322	35032
21-50	101	507	574	3888	829	5899
51-100	42	198	196	1648	319	2403
101-200	27	53	87	530	96	793
201-400	13	38	20	277	45	393
400+	5	24	23	204	47	303
TOTAL	802	3432	5027	29904	5658	44823

REACTIONS TO TRIAL RATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT TRIAL RATWAS LISTENING
(STRONGLY AGREE = FAVORABLE)

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-5	273	1137	2531	9962	1645	15548
6-10	139	688	775	6006	1055	8663
11-20	195	744	797	6206	1098	9040
21-40	106	440	492	4193	909	6140
40+	89	423	432	3537	951	5432
TOTAL	802	3432	5027	29904	5658	44823

JOINT REACTIONS OF ALL RESPONDENTS

TOO MUCH INFORMATION IS PROVIDED

NOT ENOUGH INFORMATION IS PROVIDED	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	205	103	24	39	15	386
DISAGREE	318	1240	108	217	11	1894
UNCERTAIN	147	420	234	14	1	816
AGREE	192	547	47	18	2	806
STRONGLY AGREE	69	20	2	4	6	101
TOTAL	931	2330	415	292	35	4003

JOINT REACTIONS OF ALL RESPONDENTS

THE MESSAGE IS TOO LONG

THE MESSAGE IS TOO SHORT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	135	42	14	63	56	310
DISAGREE	38	1677	140	407	33	2295
UNCERTAIN	30	243	577	40	2	892
AGREE	23	330	16	13	3	385
STRONGLY AGREE	36	9	1	1	3	50
TOTAL	262	2301	748	524	97	3932

JOINT REACTIONS OF ALL RESPONDENTS

THE SPEAKER TALKED TOO SLOWLY

THE SPEAKER TALKED TOO FAST	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	183	22	3	11	10	229
DISAGREE	39	2359	41	91	5	2535
UNCERTAIN	15	147	387	5	0	554
AGREE	58	470	20	19	1	568
STRONGLY AGREE	45	31	2	2	4	84
TOTAL	340	3029	453	128	20	3970

CONTACT OF THE FSS FOR ADDITIONAL INFORMATION
AFTER LISTENING TO THE TRIAL PATHAS

	FSS CONTACTED		
	NO	YES	TOTAL
PRE-FLIGHT FSS CONTACT	1083	3013	4096
IN-FLIGHT FSS CONTACT	1571	1841	3412
TOTAL	2654	4854	7508

LENGTH OF FSS CONTACTS WHEN MADE

	LESS THAN 1 MINUTE	BETWEEN 1 TO 5 MINS.	BETWEEN 6 TO 10 MINS.	MORE THAN 10 MINS.	TOTAL NO. CONTACTS
PRE-FLIGHT FSS CONTACT	658	2179	115	61	3013
IN-FLIGHT FSS CONTACT	1125	667	19	30	1841
TOTAL	1783	2846	134	91	4854

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
-PERCENTAGES-

CHARACTERISTIC	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
AMOUNT OF INFORMATION PROVIDED	11.43	16.04	72.53	100.00
ACCURACY OF INFORMATION PROVIDED	6.68	46.50	46.82	100.00
ADEQUACY TO SUPPORT A GO/NO-GO DECISION	8.09	35.52	56.39	100.00
YOUR SATISFACTION WITH BRIEFING	9.55	19.17	71.28	100.00
ORDER IN WHICH INFORMATION IS PRESENTED	9.58	38.62	51.79	100.00
MESSAGE LENGTH	12.79	30.83	56.38	100.00
QUALITY OF SPEAKING VOICE	8.84	52.62	38.54	100.00
AMOUNT OF BACKGROUND NOISE	9.03	55.55	35.43	100.00
SPEAKING RATE	7.38	59.96	32.66	100.00
CONNECTED PROMPTLY TO RECORDED MESSAGE	8.92	45.23	45.84	100.00
MINIMIZES ADDITIONAL PREFLIGHT INFORMATION FROM FSS	8.00	26.16	65.84	100.00
MINIMIZES ADDITIONAL INFLIGHT INFORMATION FROM FSS	6.59	41.36	52.05	100.00
EASE OF COMPREHENSION	7.99	43.69	48.32	100.00
USEFULLNESS OF INFORMATION	7.88	22.42	69.70	100.00
RESPONSIVE TO YOUR NEEDS	8.34	24.08	67.58	100.00
PROVIDES A CLEAR MENTAL PICTURE OF THE WEATHER	7.96	30.56	61.48	100.00
AMOUNT OF UNNECESSARY INFORMATION PROVIDED	13.13	48.67	38.21	100.00
TOTAL	8.95	37.43	53.62	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
PILOT LICENSE
-PERCENTAGES-

TYPE OF PILOT LICENSE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
STUDENT	12.29	38.10	49.61	100.00
PRIVATE	8.79	37.47	53.74	100.00
COMMERCIAL	8.23	36.89	54.87	100.00
AIRLINE	9.69	38.03	52.28	100.00
TOTAL	8.92	37.37	53.72	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
WEATHER RATING
-PERCENTAGES-

TYPE OF WEATHER RATING	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
IFR	7.48	36.35	56.17	100.00
VFR	9.97	38.10	51.93	100.00
TOTAL	8.92	37.37	53.72	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
ENGINE LICENSE
-PERCENTAGES-

TYPE OF ENGINE LICENSE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
MULTI	8.41	37.67	53.92	100.00
SINGLE	9.00	37.43	53.57	100.00
TOTAL	8.83	37.50	53.67	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
FLYING TIME
-PERCENTAGES-

FLYING TIME(HOURS)	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-400	9.25	37.89	52.86	100.00
401-800	7.84	35.72	56.44	100.00
801-1600	7.62	36.29	56.09	100.00
1601-3200	10.27	39.82	49.90	100.00
3200+	10.03	37.45	52.52	100.00
TOTAL	8.95	37.43	53.62	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHS
CATEGORIZED BY
GADC
-PERCENTAGES-

GADC	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
FARMINGDALE	8.38	37.19	54.43	100.00
TETERBORO	9.44	37.34	53.22	100.00
TOTAL	8.77	37.24	53.99	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHS
CATEGORIZED BY
TYPE OF POWER PLANT MOST FREQUENTLY FLOWN
-PERCENTAGES-

TYPE OF POWER PLANT	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
PISTON	8.82	37.10	54.08	100.00
TURBO	10.14	41.19	48.67	100.00
JET	11.51	41.64	46.85	100.00
TOTAL	8.94	37.34	53.71	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
DIFFERENT COUNTIES OF RESIDENCE
-PERCENTAGES-

COUNTY OF RESIDENCE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
QUEENS	8.33	34.84	56.83	100.00
PASSAIC	10.32	41.20	48.48	100.00
MANHATTAN	8.41	32.75	58.85	100.00
BROOKLYN	7.41	36.59	56.00	100.00
NASSAU	8.00	36.82	55.17	100.00
BRONX	13.21	43.50	43.29	100.00
HUNTERDON	0.	11.76	88.24	100.00
HUDSON	8.16	35.42	56.42	100.00
BERGEN	7.93	35.72	56.35	100.00
RICHMOND	5.54	32.90	61.56	100.00
MIDDLESEX	7.94	35.15	56.92	100.00
MONMOUTH	9.85	35.37	54.78	100.00
MORRIS	12.06	37.82	50.12	100.00
WESTCHESTER	7.57	39.18	53.25	100.00
ORANGE	14.53	45.95	39.53	100.00
SUFFOLK	9.00	39.28	51.72	100.00
SULLIVAN	1.19	27.38	71.43	100.00
ROCKLAND	7.27	41.05	51.68	100.00
SOMERSET	15.29	46.47	38.24	100.00
PUTNAM	8.06	52.69	39.25	100.00
ESSEX	7.77	40.61	51.61	100.00
UNION	12.24	38.35	49.41	100.00
SUSSEX	4.71	29.41	65.88	100.00
MERCER	8.82	38.24	52.94	100.00
DUTCHESS	9.71	31.71	58.57	100.00
ULSTER	9.09	44.27	46.64	100.00
TOTAL	8.78	37.25	53.97	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT ANNUAL FLYING TIME
-PERCENTAGES-

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-20	9.55	38.57	51.88	100.00
21-50	9.02	36.83	54.15	100.00
51-100	9.11	36.86	54.03	100.00
101-200	6.73	37.52	55.75	100.00
201-400	10.38	36.74	52.88	100.00
400+	11.55	40.94	47.50	100.00
TOTAL	8.95	37.43	53.62	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT BASIC PATWAS LISTENING
-PERCENTAGES-

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-20	9.68	38.29	52.03	100.00
21-50	8.37	36.00	55.63	100.00
51-100	5.24	35.16	59.60	100.00
101-200	8.20	36.93	54.87	100.00
201-400	7.91	30.64	61.45	100.00
400+	7.51	39.51	52.98	100.00
TOTAL	8.95	37.43	53.62	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT TRIAL PATWAS LISTENING
-PERCENTAGES-

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-5	11.77	41.43	46.80	100.00
6-10	8.89	38.77	52.34	100.00
11-20	8.06	35.57	56.37	100.00
21-40	6.94	35.39	57.68	100.00
40+	6.65	32.33	61.02	100.00
TOTAL	8.95	37.43	53.62	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
-PERCENTAGES-

STATEMENT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
TOO MUCH INFORMATION IS PROVIDED	23.15	57.88	10.32	7.60	1.05	100.00
NOT ENOUGH INFORMATION IS PROVIDED	9.65	47.20	20.32	20.27	2.56	100.00
THE INFORMATION PROVIDED IS ACCURATE	0.64	5.02	20.15	70.12	4.06	100.00
THE CONTENT OF THE BRIEFING WAS SATISFACTORY	0.72	7.33	8.29	78.01	5.64	100.00
THE ORDER IN WHICH THE INFORMATION IS PRESENTED IS SATISFACTORY	1.18	6.53	12.38	75.49	4.42	100.00
THE INFORMATION IS SUFFICIENT TO MAKE A DECISION TO FLY OR NOT TO FLY	3.25	16.16	18.61	53.23	8.75	100.00
THE MESSAGE IS TOO LONG	6.55	57.93	18.90	13.82	2.80	100.00
THE MESSAGE IS TOO SHORT	7.89	58.26	22.71	9.89	1.26	100.00
THE SPEAKER IS EASY TO UNDERSTAND	2.22	9.04	8.23	70.60	9.91	100.00
THE BACKGROUND NOISE IS SUFFICIENTLY LOW	2.76	9.23	8.56	72.15	7.31	100.00
THE SPEAKER TALKED TOO SLOWLY	8.55	76.03	11.34	3.56	0.52	100.00
THE SPEAKER TALKED TOO FAST	5.80	63.50	13.87	14.62	2.22	100.00
THE RECORDED MESSAGE WAS OBTAINED PROMPTLY AFTER DIALING	5.20	10.91	6.81	62.92	14.17	100.00
IT IS EASY TO COMPREHEND THE INFORMATION	0.92	6.45	8.24	75.96	8.44	100.00
THE INFORMATION PROVIDES A CLEAR MENTAL PICTURE OF THE WEATHER	1.54	10.11	19.67	62.59	6.08	100.00
THE NOTAMS AND FLIGHT PRECAUTIONS ARE USEFUL	0.56	2.30	7.59	66.54	23.01	100.00
IT IS HELPFUL TO HAVE THE INFORMATION UPDATED HOURLY	0.66	1.12	4.91	46.78	46.54	100.00
TOTAL	4.77	26.02	12.96	47.44	8.81	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
PILOT LICENSE
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

TYPE OF PILOT LICENSE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STUDENT	1.63	7.34	14.73	64.08	12.21	100.00
PRIVATE	1.73	7.62	10.82	67.27	12.55	100.00
COMMERCIAL	1.88	7.64	11.14	66.26	13.08	100.00
AIRLINE	1.82	8.74	9.41	68.32	11.71	100.00
TOTAL	1.77	7.66	11.21	66.73	12.63	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
WEATHER RATING
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

TYPE OF WEATHER RATING	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
IFR	1.97	8.12	10.82	66.84	12.24	100.00
VFR	1.65	7.38	11.45	66.66	12.87	100.00
TOTAL	1.77	7.66	11.21	66.73	12.63	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
ENGINE LICENSE
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

TYPE OF ENGINE LICENSE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
MULTI	1.91	8.25	10.91	66.84	12.09	100.00
SINGLE	1.69	7.44	11.32	66.73	12.82	100.00
TOTAL	1.75	7.65	11.21	66.76	12.63	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
FLYING TIME
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

FLYING TIME(HOURS)	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-400	1.76	7.59	11.60	65.63	13.41	100.00
401-800	1.46	7.22	10.27	68.34	12.70	100.00
801-1600	1.89	8.43	11.22	66.49	11.97	100.00
1601-3200	2.24	8.21	11.12	68.89	9.53	100.00
3200+	1.95	7.18	10.52	68.89	11.47	100.00
TOTAL	1.79	7.66	11.22	66.72	12.62	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
GADO
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

GADO	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
FARMINGDALE	1.39	7.09	11.15	67.29	13.07	100.00
TETERBORO	2.35	8.40	11.14	66.04	12.07	100.00
TOTAL	1.75	7.58	11.15	66.82	12.69	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
TYPE OF POWER PLANT MOST FREQUENTLY FLOWN
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

TYPE OF POWER PLANT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
PISTON	1.77	7.73	11.08	66.76	12.65	100.00
TURBO	1.03	7.74	14.45	62.45	14.32	100.00
JET	1.96	6.54	13.07	66.84	11.59	100.00
TOTAL	1.77	7.69	11.22	66.69	12.64	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT COUNTIES OF RESIDENCE
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

COUNTY OF RESIDENCE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
QUEENS	1.17	6.49	9.25	67.03	16.05	100.00
PASSAIC	2.46	10.12	9.77	65.78	11.88	100.00
MANHATTAN	1.71	6.94	10.87	65.29	15.19	100.00
BROOKLYN	1.39	8.75	11.80	65.52	12.53	100.00
NASSAU	1.44	7.51	10.35	68.25	12.45	100.00
BRONX	1.54	7.86	9.40	70.09	11.11	100.00
HUNTERDON	0.	16.67	7.14	71.43	4.76	100.00
HUDSON	1.18	9.11	10.62	66.61	12.48	100.00
BERGEN	2.26	8.06	11.06	67.37	11.25	100.00
RICHMOND	1.72	7.82	10.17	71.21	9.08	100.00
MIDDLESEX	1.91	9.53	10.52	66.41	11.64	100.00
MONMOUTH	2.63	7.20	13.46	64.68	12.02	100.00
MORRIS	2.49	7.98	9.66	67.76	12.11	100.00
WESTCHESTER	1.44	7.54	10.81	67.27	12.95	100.00
ORANGE	1.32	4.75	14.12	68.47	11.35	100.00
SUFFOLK	1.44	6.98	11.68	67.82	12.07	100.00
SULLIVAN	0.	2.02	5.05	82.83	10.10	100.00
ROCKLAND	1.26	7.13	12.64	66.78	12.18	100.00
SOMERSET	1.85	11.57	8.80	62.50	15.28	100.00
PUTNAM	1.20	6.25	9.38	63.46	19.71	100.00
ESSEX	3.02	9.00	11.11	62.44	14.43	100.00
UNION	1.86	7.37	12.68	66.67	11.42	100.00
SUSSEX	3.95	1.32	9.21	76.32	9.21	100.00
MERCER	3.06	9.18	20.41	53.06	14.29	100.00
DUTCHESS	0.80	5.80	15.90	65.10	12.40	100.00
ULSTER	0.68	5.67	19.05	62.81	11.79	100.00
TOTAL	1.75	7.58	11.14	66.82	12.70	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT ANNUAL FLYING TIME
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-20	1.69	6.20	15.62	65.42	11.08	100.00
21-50	1.32	7.47	11.31	67.67	12.24	100.00
51-100	1.96	7.58	10.14	66.45	13.87	100.00
101-200	2.06	9.09	9.04	67.15	12.66	100.00
201-400	2.39	8.28	9.37	67.34	12.62	100.00
400+	1.91	8.19	12.31	65.24	12.35	100.00
TOTAL	1.79	7.66	11.22	66.72	12.62	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT BASIC PATWAS LISTENING
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-20	1.75	7.46	11.78	66.67	12.34	100.00
21-50	1.71	8.59	9.73	65.91	14.05	100.00
51-100	1.75	8.24	8.16	68.58	13.28	100.00
101-200	3.40	6.68	10.97	66.83	12.11	100.00
201-400	3.31	9.67	5.09	70.48	11.45	100.00
400+	1.65	7.92	7.59	67.33	15.51	100.00
TOTAL	1.79	7.66	11.22	66.72	12.62	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT TRIAL PATWAS LISTENING
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-5	1.76	7.31	16.28	64.07	10.58	100.00
6-10	1.60	7.94	8.95	69.33	12.18	100.00
11-20	2.16	8.23	8.82	68.65	12.15	100.00
21-40	1.73	7.17	8.01	68.29	14.80	100.00
40+	1.64	7.79	7.95	65.11	17.51	100.00
TOTAL	1.79	7.66	11.22	66.72	12.62	100.00

JOINT REACTIONS OF ALL RESPONDENTS
-PERCENTAGES-

TOO MUCH INFORMATION IS PROVIDED

NOT ENOUGH INFORMATION IS PROVIDED	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	53.11	26.68	6.22	10.10	3.89	100.00
DISAGREE	16.79	65.47	5.70	11.46	0.58	100.00
UNCERTAIN	18.01	51.47	28.68	1.72	0.12	100.00
AGREE	23.82	67.87	5.83	2.23	0.25	100.00
STRONGLY AGREE	68.32	19.80	1.98	3.96	5.94	100.00
TOTAL	23.26	58.21	10.37	7.29	0.87	100.00

JOINT REACTIONS OF ALL RESPONDENTS
-PERCENTAGES-

THE MESSAGE IS TOO LONG

THE MESSAGE IS TOO SHORT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	43.55	13.55	4.52	20.32	18.06	100.00
DISAGREE	1.66	73.07	6.10	17.73	1.44	100.00
UNCERTAIN	3.36	27.24	64.69	4.48	0.22	100.00
AGREE	5.97	85.71	4.16	3.38	0.78	100.00
STRONGLY AGREE	72.00	18.00	2.00	2.00	6.00	100.00
TOTAL	6.66	58.52	19.02	13.33	2.47	100.00

JOINT REACTIONS OF ALL RESPONDENTS
-PERCENTAGES-

THE SPEAKER TALKED TOO SLOWLY

THE SPEAKER TALKED TOO FAST	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	79.91	9.61	1.31	4.80	4.37	100.00
DISAGREE	1.54	93.06	1.62	3.59	0.20	100.00
UNCERTAIN	2.71	26.53	69.86	0.90	0.	100.00
AGREE	10.21	82.75	3.52	3.35	0.18	100.00
STRONGLY AGREE	53.57	36.90	2.38	2.38	4.76	100.00
TOTAL	8.56	76.30	11.41	3.22	0.50	100.00

QUESTIONNAIRE DATA (INITIAL)

The questionnaire data obtained from responses to the initial mailing are contained in this section. The material is discussed in volume I.

COMPARISON BETWEEN BASIC AND TRIAL PATWAS

CHARACTERISTIC	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
AMOUNT OF INFORMATION PROVIDED	137	181	1192	1510
ACCURACY OF INFORMATION PROVIDED	81	679	723	1483
ADEQUACY TO SUPPORT A GO/NO-GO DECISION	99	474	926	1499
YOUR SATISFACTION WITH BRIEFING	114	217	1162	1493
ORDER IN WHICH INFOBMATION IS PRESENTED	120	573	781	1474
MESSAGE LENGTH	175	399	893	1467
QUALITY OF SPEAKING VOICE	124	787	572	1483
AMOUNT OF BACKGROUND NOISE	133	822	533	1488
SPEAKING RATE	96	903	483	1482
CONNECTED PROMPTLY TO RECORDED MESSAGE	126	660	697	1483
MINIMIZES ADDITIONAL PREFLIGHT INFORMATION FROM FSS	92	330	1067	1489
MINIMIZES ADDITIONAL INFLIGHT INFORMATION FROM FSS	78	571	806	1455
EASE OF COMPREHENSION	111	629	748	1488
USEFULLNESS OF INFORMATION	100	271	1114	1485
RESPONSIVE TO YOUR NEEDS	105	290	1089	1484
PROVIDES A CLEAR MENTAL PICTURE OF THE WEATHER	107	390	992	1489
AMOUNT OF UNNECESSARY INFORMATION PROVIDED	192	689	570	1451
TOTAL	1990	8865	14348	25203

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
PILOT LICENSE

TYPE OF PILOT LICENSE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
STUDENT	193	545	678	1416
PRIVATE	1105	4943	7921	13969
COMMERCIAL	554	2779	4952	8285
AIRLINE	127	546	768	1441
TOTAL	1979	8813	14319	25111

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
WEATHER RATING

TYPE OF WEATHER RATING	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
IFR	743	3767	6861	11371
VFR	1236	5046	7458	13740
TOTAL	1979	8813	14319	25111

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
ENGINE LICENSE

TYPE OF ENGINE LICENSE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
MULTI	511	2496	4304	7311
SINGLE	1381	6099	9716	17196
TOTAL	1892	8595	14020	24507

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
FLYING TIME

FLYING TIME(HOURS)	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-400	968	4160	6401	11529
401-800	374	1646	2840	4860
801-1600	239	1383	2408	4030
1601-3200	226	895	1308	2429
3200+	183	781	1391	2355
TOTAL	1990	8865	14348	25203

COMPARISON BETWEEN BASIC AND TRIAL PATHAS
CATEGORIZED BY
GADD

GADD	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
FARNINGDALE	1125	5364	8777	15266
TETERBORO	743	3134	5165	9042
TOTAL	1868	8498	13942	24308

COMPARISON BETWEEN BASIC AND TRIAL PATHAS
CATEGORIZED BY
TYPE OF POWER PLANT MOST FREQUENTLY FLOWN

TYPE OF POWER PLANT	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
PISTON	1856	8263	13676	23795
TURBO	37	138	191	366
JET	89	412	434	935
TOTAL	1982	8813	14301	25096

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
DIFFERENT COUNTIES OF RESIDENCE

COUNTY OF RESIDENCE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
QUEENS	131	664	1179	1974
PASSAIC	85	308	448	841
MANHATTAN	178	673	1254	2105
BROOKLYN	36	334	561	931
NASSAU	246	1225	2191	3662
BRONX	28	102	142	272
HUNTERDON	0	0	0	0
HUDSON	21	126	226	373
BERGEN	179	776	1471	2426
RICHMOND	30	137	235	402
MIDDLESEX	45	222	426	693
MONMOUTH	99	407	761	1267
MORRIS	138	462	642	1242
WESTCHESTER	106	717	1039	1862
ORANGE	56	134	76	266
SUFFOLK	232	951	1445	2628
SULLIVAN	1	14	35	50
ROCKLAND	27	200	229	456
SOMERSET	14	14	40	68
PUTNAM	2	34	32	68
ESSEX	67	450	624	1141
UNION	95	340	471	906
SUSSEX	0	22	46	68
MERCER	0	7	10	17
DUTCHESS	52	154	299	505
ULSTER	0	25	60	85
TOTAL	1868	8498	13942	24308

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT ANNUAL FLYING TIME

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-20	290	1253	1848	3391
21-50	593	2228	3417	6238
51-100	586	2540	4227	7353
101-200	215	1707	2983	4905
201-400	163	689	1240	2092
400+	143	448	633	1224
TOTAL	1990	8865	14348	25203

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT BASIC PATWAS LISTENING

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-20	1366	5786	8694	15846
21-50	419	1825	3215	5459
51-100	81	792	1587	2460
101-200	76	260	456	792
201-400	32	85	223	340
400+	16	117	173	306
TOTAL	1990	8865	14348	25203

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT TRIAL PATWAS LISTENING

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-5	742	2662	3410	6814
6-10	341	1682	2467	4490
11-20	372	1808	3108	5288
21-40	271	1453	2702	4426
40+	264	1260	2661	4185
TOTAL	1990	8865	14348	25203

REACTIONS TO TRIAL PATWAS STATEMENTS

STATEMENT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
TOO MUCH INFORMATION IS PROVIDED	625	1316	170	173	23	2307
NOT ENOUGH INFORMATION IS PROVIDED	222	1094	413	488	59	2276
THE INFORMATION PROVIDED IS ACCURATE	17	112	446	1608	93	2276
THE CONTENT OF THE BRIEFING WAS SATISFACTORY	15	178	161	1788	136	2278
THE ORDER IN WHICH THE INFORMATION IS PRESENTED IS SATISFACTORY	30	158	259	1751	109	2307
THE INFORMATION IS SUFFICIENT TO MAKE A DECISION TO FLY OR NOT TO FLY	89	356	395	1250	213	2303
THE MESSAGE IS TOO LONG	169	1370	353	316	74	2282
THE MESSAGE IS TOO SHORT	185	1342	436	240	33	2236
THE SPEAKER IS EASY TO UNDERSTAND	51	210	167	1634	245	2307
THE BACKGROUND NOISE IS SUFFICIENTLY LOW	72	236	155	1653	182	2298
THE SPEAKER TALKED TOO SLOWLY	210	1756	204	87	15	2272
THE SPEAKER TALKED TOO FAST	145	1491	264	317	53	2270
THE RECORDED MESSAGE WAS OBTAINED PROMPTLY AFTER DIALING	127	264	117	1444	363	2315
IT IS EASY TO COMPREHEND THE INFORMATION	22	157	137	1735	222	2273
THE INFORMATION PROVIDES A CLEAR MENTAL PICTURE OF THE WEATHER	37	232	405	1476	155	2305
THE NOTAMS AND FLIGHT PRECAUTIONS ARE USEFUL	16	56	157	1541	530	2300
IT IS HELPFUL TO HAVE THE INFORMATION UPDATED HOURLY	15	23	85	1055	1136	2314
TOTAL	2047	10351	4324	18556	3641	38919
TOTAL (TO ALL TRIAL PATWAS STATEMENTS FOR WHICH STRONGLY AGREE = FAVARABLE)	491	1982	2484	16935	3384	25276

REACTIONS TO TRIAL PATHAS STATEMENTS
CATEGORIZED BY
PILOT LICENSE
(STRONGLY AGREE = FAVORABLE)

TYPE OF PILOT LICENSE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STUDENT	35	133	205	1242	253	1868
PRIVATE	273	1123	1410	9758	1874	14438
COMMERCIAL	152	599	756	5014	1095	7616
AIRLINE	21	123	110	899	158	1311
TOTAL	481	1978	2481	16913	3380	25233

REACTIONS TO TRIAL PATHAS STATEMENTS
CATEGORIZED BY
WEATHER RATING
(STRONGLY AGREE = FAVORABLE)

TYPE OF WEATHER RATING	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
IFR	213	861	1018	6942	1346	10380
VFR	268	1117	1463	9971	2034	14853
TOTAL	481	1978	2481	16913	3380	25233

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
ENGINE LICENSE
(STRONGLY AGREE = FAVORABLE)

TYPE OF ENGINE LICENSE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
MULTI	126	564	648	4616	878	6832
SINGLE	337	1364	1790	11972	2438	17901
TOTAL	463	1928	2438	16588	3316	24733

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
FLYING TIME
(STRONGLY AGREE = FAVORABLE)

FLYING TIME(HOURS)	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-400	257	1022	1345	8696	1859	13179
401-800	65	319	405	2898	597	4284
801-1600	65	300	345	2386	433	3529
1601-3200	56	190	212	1470	225	2153
3200+	48	151	177	1485	270	2131
TOTAL	491	1982	2484	16935	3384	25276

REACTIONS TO TRIAL PATHAS STATEMENTS
CATEGORIZED BY
GADC
(STRONGLY AGREE = FAVORABLE)

GADC	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
FARMINGDALE	229	1118	1476	10100	2077	15000
TETERBORO	232	776	913	6210	1202	9333
TOTAL	461	1894	2389	16310	3279	24333

REACTIONS TO TRIAL PATHAS STATEMENTS
CATEGORIZED BY
TYPE OF POWER PLANT MOST FREQUENTLY FLOWN
(STRONGLY AGREE = FAVORABLE)

TYPE OF POWER PLANT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
PISTON	456	1884	2351	15980	3191	23862
TURBO	3	32	31	260	56	382
JET	19	61	84	588	128	880
TOTAL	478	1977	2466	16828	3375	25124

REACTIONS TO TRIAL PATHAS STATEMENTS
CATEGORIZED BY
DIFFERENT COUNTIES OF RESIDENCE
(STRONGLY AGREE = FAVORABLE)

COUNTY OF RESIDENCE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
QUEENS	22	129	154	1045	251	1601
PASSAIC	23	86	71	590	111	881
MANHATTAN	33	145	200	1266	305	1949
BROOKLYN	17	81	92	571	129	890
NASSAU	58	269	291	2346	459	3423
BRONX	6	27	27	217	38	315
HUNTERDON	0	2	2	16	0	20
HUDSON	3	37	41	258	47	386
BERGEN	56	202	255	1701	327	2541
RICHMOND	2	29	46	288	34	399
MIDDLESEX	13	57	82	474	84	710
MONMOUTH	32	81	121	738	163	1135
MORRIS	46	126	129	934	174	1409
WESTCHESTER	30	149	180	1258	261	1878
ORANGE	4	19	59	264	45	391
SUFFOLK	39	168	262	1813	325	2607
SULLIVAN	0	2	4	50	10	66
ROCKLAND	8	34	41	297	57	437
SOMERSET	3	11	15	57	22	108
PUTNAM	2	12	20	124	40	198
ESSEX	32	98	92	755	167	1144
UNION	20	72	93	638	101	924
SUSSEX	3	1	5	40	5	54
MERCER	1	3	7	9	1	21
DUTCHESS	7	43	79	426	93	648
ULSTER	1	11	16	119	29	176
TOTAL	461	1894	2384	16294	3278	24311

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT ANNUAL FLYING TIME
(STRONGLY AGREE = FAVORABLE)

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-20	75	233	457	2390	419	3574
21-50	94	497	638	4411	854	6494
51-100	165	568	720	4945	1062	7460
101-200	85	428	395	3166	646	4720
201-400	50	154	156	1183	245	1788
400+	22	102	118	840	158	1240
TOTAL	491	1982	2484	16935	3384	25276

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT BASIC PATWAS LISTENING
(STRONGLY AGREE = FAVORABLE)

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-20	372	1460	1900	12682	2499	18913
21-50	65	323	366	2484	520	3758
51-100	23	140	140	1128	227	1658
101-200	20	38	61	337	75	531
201-400	9	9	6	167	28	219
400+	2	12	11	137	35	197
TOTAL	491	1982	2484	16935	3384	25276

REACTIONS TO TRIAL PATHAS STATEMENTS
CATEGORIZED BY
DIFFERENT TRIAL PATHAS LISTENING
(STRONGLY AGREE = FAVORABLE)

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-5	150	557	939	5063	901	7610
6-10	89	384	455	3292	596	4816
11-20	125	469	455	3597	639	5285
21-40	65	285	349	2742	587	4028
40+	62	287	286	2241	661	3537
TOTAL	491	1982	2484	16935	3384	25276

JOINT REACTIONS OF ALL RESPONDENTS

TOO MUCH INFORMATION IS PROVIDED

NOT ENOUGH INFORMATION IS PROVIDED	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	120	57	15	19	10	221
DISAGREE	215	695	50	125	8	1093
UNCERTAIN	108	223	73	9	0	413
AGREE	133	318	26	6	1	484
STRONGLY AGREE	44	8	1	2	3	58
TOTAL	620	1301	165	161	22	2269

JOINT REACTIONS OF ALL RESPONDENTS

THE MESSAGE IS TOO LONG

THE MESSAGE IS TOO SHORT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	83	27	9	29	37	185
DISAGREE	26	970	81	238	23	1338
UNCERTAIN	19	146	248	22	1	436
AGREE	15	206	9	4	3	237
STRONGLY AGREE	25	5	1	0	2	33
TOTAL	168	1354	348	293	66	2229

JOINT REACTIONS OF ALL RESPONDENTS

THE SPEAKER TALKED TOO SLOWLY

THE SPEAKER TALKED TOO FAST	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	114	10	2	10	7	143
DISAGREE	25	1376	19	59	4	1483
UNCERTAIN	13	77	171	2	0	263
AGREE	28	262	10	7	1	308
STRONGLY AGREE	27	19	2	1	2	51
TOTAL	207	1744	204	79	14	2248

CONTACT OF THE FSS FOR ADDITIONAL INFORMATION
AFTER LISTENING TO THE TRIAL PATHAS

	FSS CONTACTED		
	NO	YES	TOTAL
PRE-FLIGHT FSS CONTACT	548	1700	2248
IN-FLIGHT FSS CONTACT	845	1038	1883
TOTAL	1393	2738	4131

LENGTH OF FSS CONTACTS WHEN MADE

	LESS THAN 1 MINUTE	BETWEEN 1 TO 5 MINS.	BETWEEN 6 TO 10 MINS.	MORE THAN 10 MINS.	TOTAL NO. CONTACTS
PRE-FLIGHT FSS CONTACT	382	1223	62	33	1700
IN-FLIGHT FSS CONTACT	642	369	10	17	1038
TOTAL	1024	1592	72	50	2738

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
-PERCENTAGES-

CHARACTERISTIC	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
AMOUNT OF INFORMATION PROVIDED	9.07	11.99	78.94	100.00
ACCURACY OF INFORMATION PROVIDED	5.46	45.79	48.75	100.00
ADEQUACY TO SUPPORT A GO/NO-GO DECISION	6.60	31.62	61.77	100.00
YOUR SATISFACTION WITH BRIEFING	7.64	14.53	77.83	100.00
ORDER IN WHICH INFORMATION IS PRESENTED	8.14	38.87	52.99	100.00
MESSAGE LENGTH	11.93	27.20	60.87	100.00
QUALITY OF SPEAKING VOICE	8.36	53.07	38.57	100.00
AMOUNT OF BACKGROUND NOISE	8.94	55.24	35.82	100.00
SPEAKING RATE	6.48	60.93	32.59	100.00
CONNECTED PROMPTLY TO RECORDED MESSAGE	8.50	44.50	47.00	100.00
MINIMIZES ADDITIONAL PREFLIGHT INFORMATION FROM FSS	6.18	22.16	71.66	100.00
MINIMIZES ADDITIONAL INFLIGHT INFORMATION FROM FSS	5.36	39.24	55.40	100.00
EASE OF COMPREHENSION	7.46	42.27	50.27	100.00
USEFULLNESS OF INFORMATION	6.73	18.25	75.02	100.00
RESPONSIVE TO YOUR NEEDS	7.08	19.54	73.38	100.00
PROVIDES A CLEAR MENTAL PICTURE OF THE WEATHER	7.19	26.19	66.62	100.00
AMOUNT OF UNNECESSARY INFORMATION PROVIDED	13.23	47.48	39.28	100.00
TOTAL	7.90	35.17	56.93	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
PILOT LICENSE
-PERCENTAGES-

TYPE OF PILOT LICENSE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
STUDENT	13.63	38.49	47.88	100.00
PRIVATE	7.91	35.39	56.70	100.00
COMMERCIAL	6.69	33.54	59.77	100.00
AIRLINE	8.81	37.89	53.30	100.00
TOTAL	7.88	35.10	57.02	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
WEATHER RATING
-PERCENTAGES-

TYPE OF WEATHER RATING	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
IFR	6.53	33.13	60.34	100.00
VFR	9.00	36.72	54.28	100.00
TOTAL	7.88	35.10	57.02	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
ENGINE LICENSE
-PERCENTAGES-

TYPE OF ENGINE LICENSE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
MULTI	6.99	34.14	58.87	100.00
SINGLE	8.03	35.47	56.50	100.00
TOTAL	7.72	35.07	57.21	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
FLYING TIME
-PERCENTAGES-

FLYING TIME(HOURS)	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-400	8.40	36.08	55.52	100.00
401-800	7.70	33.87	58.44	100.00
801-1600	5.93	34.32	59.75	100.00
1601-3200	9.30	36.85	53.85	100.00
3200+	7.77	33.16	59.07	100.00
TOTAL	7.90	35.17	56.93	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHAS
CATEGORIZED BY
GADO
-PERCENTAGES-

GADO	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
FARMINGDALE	7.37	35.14	57.49	100.00
TETERBORO	8.22	34.66	57.12	100.00
TOTAL	7.68	34.96	57.36	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHAS
CATEGORIZED BY
TYPE OF POWER PLANT MOST FREQUENTLY FLOWN
-PERCENTAGES-

TYPE OF POWER PLANT	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
PISTON	7.80	34.73	57.47	100.00
TURBO	10.11	37.70	52.19	100.00
JET	9.52	44.06	46.42	100.00
TOTAL	7.90	35.12	56.99	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
DIFFERENT COUNTIES OF RESIDENCE
-PERCENTAGES-

COUNTY OF RESIDENCE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
QUEENS	6.64	33.64	59.73	100.00
PASSAIC	10.11	36.62	53.27	100.00
MANHATTAN	8.46	31.97	59.57	100.00
BROOKLYN	3.87	35.88	60.26	100.00
NASSAU	6.72	33.45	59.83	100.00
BRONX	10.29	37.50	52.21	100.00
HUNTERDON	0.	0.	0.	0.
HUDSON	5.63	33.78	60.59	100.00
BERGEN	7.38	31.99	60.63	100.00
RICHMOND	7.46	34.08	58.46	100.00
MIDDLESEX	6.49	32.03	61.47	100.00
MONMOUTH	7.81	32.12	60.06	100.00
MORRIS	11.11	37.20	51.69	100.00
WESTCHESTER	5.69	38.51	55.80	100.00
ORANGE	21.05	50.38	28.57	100.00
SUFFOLK	8.83	36.19	54.98	100.00
SULLIVAN	2.00	28.00	70.00	100.00
ROCKLAND	5.92	43.86	50.22	100.00
SOMERSET	20.59	20.59	58.82	100.00
PUTNAM	2.94	50.00	47.06	100.00
ESSEX	5.87	39.44	54.69	100.00
UNION	10.49	37.53	51.99	100.00
SUSSEX	0.	32.35	67.65	100.00
MERCER	0.	41.18	58.82	100.00
DUTCHESS	10.30	30.50	59.21	100.00
ULSTER	0.	29.41	70.59	100.00
TOTAL	7.68	34.96	57.36	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT ANNUAL FLYING TIME
-PERCENTAGES-

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-20	8.55	36.95	54.50	100.00
21-50	9.51	35.72	54.78	100.00
51-100	7.97	34.54	57.49	100.00
101-200	4.38	34.80	60.82	100.00
201-400	7.79	32.93	59.27	100.00
400+	11.68	36.60	51.72	100.00
TOTAL	7.90	35.17	56.93	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT BASIC PATWAS LISTENING
-PERCENTAGES-

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-20	8.62	36.51	54.87	100.00
21-50	7.68	33.43	58.89	100.00
51-100	3.29	32.20	64.51	100.00
101-200	9.60	32.83	57.58	100.00
201-400	9.41	25.00	65.59	100.00
400+	5.23	38.24	56.54	100.00
TOTAL	7.90	35.17	56.93	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT TRIAL PATWAS LISTENING
-PERCENTAGES-

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-5	10.89	39.07	50.04	100.00
6-10	7.59	37.46	54.94	100.00
11-20	7.03	34.19	58.77	100.00
21-40	6.12	32.83	61.05	100.00
40+	6.31	30.11	63.58	100.00
TOTAL	7.90	35.17	56.93	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
-PERCENTAGES-

STATEMENT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
TOO MUCH INFORMATION IS PROVIDED	27.09	57.04	7.37	7.50	1.00	100.00
NOT ENOUGH INFOBMATION IS PROVIDED	9.75	48.07	18.15	21.44	2.59	100.00
THE INFORMATION PROVIDED IS ACCURATE	0.75	4.92	19.60	70.65	4.09	100.00
THE CONTENT OF THE BRIEFING WAS SATISFACTORY	0.66	7.81	7.07	78.49	5.97	100.00
THE ORDER IN WHICH THE INFORMATION IS PRESENTED IS SATISFACTORY	1.30	6.85	11.23	75.90	4.72	100.00
THE INFORMATION IS SUFFICIENT TO MAKE A DECISION TO FLY OR NOT TO FLY	3.86	15.46	17.15	54.28	9.25	100.00
THE MESSAGE IS TOO LONG	7.41	60.04	15.47	13.85	3.24	100.00
THE MESSAGE IS TOO SHORT	8.27	60.02	19.50	10.73	1.48	100.00
THE SPEAKER IS EASY TO UNDERSTAND	2.21	9.10	7.24	70.83	10.62	100.00
THE BACKGROUND NOISE IS SUFFICIENTLY LOW	3.13	10.27	6.74	71.93	7.92	100.00
THE SPEAKER TALKED TOO SLOWLY	9.24	77.29	8.98	3.83	0.66	100.00
THE SPEAKER TALKED TOO FAST	6.39	65.68	11.63	13.96	2.33	100.00
THE RECORDED MESSAGE WAS OBTAINED PROMPTLY AFTER DIALING	5.49	11.40	5.05	62.38	15.68	100.00
IT IS EASY TO COMPREHEND THE INFORMATION	0.97	6.91	6.03	76.33	9.77	100.00
THE INFORMATION PROVIDES A CLEAR MENTAL PICTURE OF THE WEATHER	1.61	10.07	17.57	64.03	6.72	100.00
THE NOTAMS AND FLIGHT PRECAUTIONS ARE USEFUL	0.70	2.43	6.83	67.00	23.04	100.00
IT IS HELPFUL TO HAVE THE INFORMATION UPDATED HOURLY	0.65	0.99	3.67	45.59	49.09	100.00
TOTAL	5.26	26.60	11.11	47.68	9.36	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
PILOT LICENSE
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

TYPE OF PILOT LICENSE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STUDENT	1.87	7.12	10.97	66.49	13.54	100.00
PRIVATE	1.89	7.78	9.77	67.59	12.98	100.00
COMMERCIAL	2.00	7.87	9.93	65.84	14.38	100.00
AIRLINE	1.60	9.38	8.39	68.57	12.05	100.00
TOTAL	1.91	7.84	9.83	67.03	13.40	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
WEATHER RATING
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

TYPE OF WEATHER RATING	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
IFR	2.05	8.29	9.81	66.88	12.97	100.00
VFR	1.80	7.52	9.85	67.13	13.69	100.00
TOTAL	1.91	7.84	9.83	67.03	13.40	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
ENGINE LICENSE
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

TYPE OF ENGINE LICENSE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
MULTI	1.84	8.26	9.48	67.56	12.85	100.00
SINGLE	1.88	7.62	10.00	66.88	13.62	100.00
TOTAL	1.87	7.80	9.86	67.07	13.41	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
FLYING TIME
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

FLYING TIME(HOURS)	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-400	1.95	7.75	10.21	65.98	14.11	100.00
401-800	1.52	7.45	9.45	67.65	13.94	100.00
801-1600	1.84	8.50	9.78	67.61	12.27	100.00
1601-3200	2.60	8.82	9.85	68.28	10.45	100.00
3200+	2.25	7.09	8.31	69.69	12.67	100.00
TOTAL	1.94	7.84	9.83	67.00	13.39	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
GADC
(STRONGLY AGREE + FAVORABLE)
-PERCENTAGES-

GADC	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
FARMINGDALE	1.53	7.45	9.84	67.33	13.85	100.00
TETERBORO	2.49	8.31	9.78	66.54	12.88	100.00
TOTAL	1.89	7.78	9.82	67.03	13.48	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
TYPE OF POWER PLANT MOST FREQUENTLY FLOWN
(STRONGLY AGREE + FAVORABLE)
-PERCENTAGES-

TYPE OF POWER PLANT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
PISTON	1.91	7.90	9.85	66.97	13.37	100.00
TURBO	0.79	8.38	8.12	68.06	14.66	100.00
JET	2.16	6.93	9.55	66.82	14.55	100.00
TOTAL	1.90	7.87	9.82	66.98	13.43	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT COUNTIES OF RESIDENCE
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

COUNTY OF RESIDENCE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
QUEENS	1.37	8.06	9.62	65.27	15.68	100.00
PASSAIC	2.61	9.76	8.06	66.97	12.60	100.00
MANHATTAN	1.69	7.44	10.26	64.96	15.65	100.00
BROOKLYN	1.91	9.10	10.34	64.16	14.49	100.00
NASSAU	1.69	7.86	8.50	68.54	13.41	100.00
BRONX	1.90	8.57	8.57	68.89	12.06	100.00
HUNTERDON	0.	10.00	10.00	80.00	0.	100.00
HUDSON	0.78	9.59	10.62	66.84	12.18	100.00
BERGEN	2.20	7.95	10.04	66.94	12.87	100.00
RICHMOND	0.50	7.27	11.53	72.18	8.52	100.00
MIDDLESEX	1.83	8.03	11.55	66.76	11.83	100.00
MONMOUTH	2.82	7.14	10.66	65.02	14.36	100.00
MORRIS	3.26	8.94	9.16	66.29	12.35	100.00
WESTCHESTER	1.60	7.93	9.58	66.99	13.90	100.00
ORANGE	1.02	4.86	15.09	67.52	11.51	100.00
SUFFOLK	1.50	6.44	10.05	69.54	12.47	100.00
SULLIVAN	0.	3.03	6.06	75.76	15.15	100.00
ROCKLAND	1.83	7.78	9.38	67.96	13.04	100.00
SOMERSET	2.78	10.19	13.89	52.78	20.37	100.00
PUTNAM	1.01	6.06	10.10	62.63	20.20	100.00
ESSEX	2.80	8.57	8.04	66.00	14.60	100.00
UNION	2.16	7.79	10.06	69.05	10.93	100.00
SUSSEX	5.56	1.85	9.26	74.07	9.26	100.00
MERCER	4.76	14.29	33.33	42.86	4.76	100.00
DUTCHESS	1.08	6.64	12.19	65.74	14.35	100.00
ULSTER	0.57	6.25	9.09	67.61	16.48	100.00
TOTAL	1.90	7.79	9.81	67.02	13.48	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT ANNUAL FLYING TIME
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-20	2.10	6.52	12.79	66.87	11.72	100.00
21-50	1.45	7.65	9.82	67.92	13.15	100.00
51-100	2.21	7.61	9.65	66.29	14.24	100.00
101-200	1.80	9.07	8.37	67.08	13.69	100.00
201-400	2.80	8.61	8.72	66.16	13.70	100.00
400+	1.77	8.23	9.52	67.74	12.74	100.00
TOTAL	1.94	7.84	9.83	67.00	13.39	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT BASIC PATWAS LISTENING
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-20	1.97	7.72	10.05	67.05	13.21	100.00
21-50	1.73	8.59	9.74	66.10	13.84	100.00
51-100	1.39	8.44	8.44	68.03	13.69	100.00
101-200	3.77	7.16	11.49	63.47	14.12	100.00
201-400	4.11	4.11	2.74	76.26	12.79	100.00
400+	1.02	6.09	5.58	69.54	17.77	100.00
TOTAL	1.94	7.84	9.83	67.00	13.39	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT TRIAL PATWAS LISTENING
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-5	1.97	7.32	12.34	66.53	11.84	100.00
6-10	1.85	7.97	9.45	68.36	12.38	100.00
11-20	2.37	8.87	8.61	68.06	12.09	100.00
21-40	1.61	7.08	8.66	68.07	14.57	100.00
40+	1.75	8.11	8.09	63.36	18.69	100.00
TOTAL	1.94	7.84	9.83	67.00	13.39	100.00

JOINT REACTIONS OF ALL RESPONDENTS
-PERCENTAGES-

TOO MUCH INFORMATION IS PROVIDED

NOT ENOUGH INFORMATION IS PROVIDED	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	54.30	25.79	6.79	8.60	4.52	100.00
DISAGREE	19.67	63.59	4.57	11.44	0.73	100.00
UNCERTAIN	26.15	54.00	17.68	2.18	0.	100.00
AGREE	27.48	65.70	5.37	1.24	0.21	100.00
STRONGLY AGREE	75.86	13.79	1.72	3.45	5.17	100.00
TOTAL	27.32	57.34	7.27	7.10	0.97	100.00

JOINT REACTIONS OF ALL RESPONDENTS
-PERCENTAGES-

THE MESSAGE IS TOO LONG

THE MESSAGE IS TOO SHORT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	44.86	14.59	4.86	15.68	20.00	100.00
DISAGREE	1.94	72.50	6.05	17.79	1.72	100.00
UNCERTAIN	4.36	33.49	56.88	5.05	0.23	100.00
AGREE	6.33	86.92	3.80	1.69	1.27	100.00
STRONGLY AGREE	75.76	15.15	3.03	0.	6.06	100.00
TOTAL	7.54	60.74	15.61	13.14	2.96	100.00

JOINT REACTIONS OF ALL RESPONDENTS
-PERCENTAGES-

THE SPEAKER TALKED TOO SLOWLY

THE SPEAKER TALKED TOO FAST	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	79.72	6.99	1.40	6.99	4.90	100.00
DISAGREE	1.69	92.78	1.28	3.98	0.27	100.00
UNCERTAIN	4.94	29.28	65.02	0.76	0.	100.00
AGREE	9.09	85.06	3.25	2.27	0.32	100.00
STRONGLY AGREE	52.94	37.25	3.92	1.96	3.92	100.00
TOTAL	9.21	77.58	9.07	3.51	0.62	100.00

QUESTIONNAIRE DATA (FOLLOW-UP)

The questionnaire data obtained from responses to the follow-up mailing are contained in this section. The material is discussed in volume I.

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS

CHARACTERISTIC	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
AMOUNT OF INFORMATION PROVIDED	150	222	630	1002
ACCURACY OF INFORMATION PROVIDED	84	470	434	988
ADEQUACY TO SUPPORT A GO/NO-GO DECISION	103	413	482	998
YOUR SATISFACTION WITH BRIEFING	122	257	600	979
ORDER IN WHICH INFORMATION IS PRESENTED	115	374	489	978
MESSAGE LENGTH	137	353	482	972
QUALITY OF SPEAKING VOICE	94	510	378	982
AMOUNT OF BACKGROUND NOISE	90	550	342	982
SPEAKING RATE	86	575	322	983
CONNECTED PROMPTLY TO RECORDED MESSAGE	94	455	433	982
MINIMIZES ADDITIONAL PREFLIGHT INFORMATION FROM FSS	105	314	554	973
MINIMIZES ADDITIONAL INFLIGHT INFORMATION FROM FSS	81	427	450	958
EASE OF COMPREHENSION	86	448	443	977
USEFULLNESS OF INFORMATION	94	281	602	977
RESPONSIVE TO YOUR NEEDS	100	302	572	974
PROVIDES A CLEAR MENTAL PICTURE OF THE WEATHER	90	366	529	985
AMOUNT OF UNNECESSARY INFORMATION PROVIDED	123	479	347	949
TOTAL	1754	6796	8089	16639

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
PILOT LICENSE

TYPE OF PILOT LICENSE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
STUDENT	184	624	844	1652
PRIVATE	915	3669	4428	9012
COMMERCIAL	545	2146	2373	5064
AIRLINE	96	329	435	860
TOTAL	1740	6768	8080	16588

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
WEATHER RATING

TYPE OF WEATHER RATING	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
IFR	569	2611	2994	6174
VFR	1171	4157	5086	10414
TOTAL	1740	6768	8080	16588

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
ENGINE LICENSE

TYPE OF ENGINE LICENSE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
MULTI	472	1905	1995	4372
SINGLE	1229	4752	5813	11794
TOTAL	1701	6657	7808	16166

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
FLYING TIME

FLYING TIME(HOURS)	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-400	897	3484	4262	8643
401-800	187	909	1197	2293
801-1600	230	850	1043	2123
1601-3200	193	729	727	1649
3200+	247	824	860	1931
TOTAL	1754	6796	8089	16639

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
GADO

GADO	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
FARMINGDALE	1016	4132	5121	10269
TETERBORO	642	2342	2639	5623
TOTAL	1658	6474	7760	15892

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
TYPE OF POWER PLANT MOST FREQUENTLY FLOWN

TYPE OF POWER PLANT	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
PISTON	1613	6333	7601	15547
TURBO	28	126	121	275
JET	99	268	331	698
TOTAL	1740	6727	8053	16520

COMPARISON BETWEEN BASIC AND TRIAL PATHAS
CATEGORIZED BY
DIFFERENT COUNTIES OF RESIDENCE

COUNTY OF RESIDENCE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
QUEENS	141	474	677	1292
PASSAIC	51	235	191	477
MANHATTAN	70	293	482	845
BROOKLYN	74	209	270	553
NASSAU	265	1127	1333	2725
BRONX	37	112	71	220
HUNTERDON	0	2	15	17
HUDSON	26	78	99	203
BERGEN	119	566	646	1331
RICHMOND	4	65	143	212
MIDDLESEX	60	243	327	630
MONMOUTH	106	329	379	814
MORRIS	110	316	389	815
WESTCHESTER	125	478	585	1188
ORANGE	30	138	158	326
SUFFOLK	191	895	986	2072
SULLIVAN	0	9	25	34
ROCKLAND	27	105	155	287
SOMERSET	12	65	25	102
PUTNAM	13	64	41	118
ESSEX	75	292	319	686
UNION	70	177	195	442
SUSSEX	4	3	10	17
MERCER	9	32	44	85
DUTCHESS	16	68	111	195
ULSTER	23	87	58	168
TOTAL	1658	6462	7734	15854

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT ANNUAL FLYING TIME

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-20	299	1127	1353	2779
21-50	366	1688	2340	4394
51-100	513	1906	2289	4708
101-200	293	1126	1227	2646
201-400	174	504	477	1155
400+	109	445	403	957
TOTAL	1754	6796	8089	16639

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT BASIC PATWAS LISTENING

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-20	1312	4810	5705	11827
21-50	284	1200	1460	2944
51-100	105	455	527	1087
101-200	19	168	180	367
201-400	16	101	150	267
400+	18	62	67	147
TOTAL	1754	6796	8089	16639

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT TRIAL PATWAS LISTENING

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-5	746	2577	2507	5830
6-10	355	1352	1629	3336
11-20	312	1210	1675	3197
21-40	191	904	1140	2235
40+	150	753	1138	2041
TOTAL	1754	6796	8089	16639

REACTIONS TO TRIAL PATWAS STATEMENTS

STATEMENT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
TOO MUCH INFORMATION IS PROVIDED	322	1052	252	138	20	1784
NOT ENOUGH INFORMATION IS PROVIDED	166	804	404	327	44	1745
THE INFORMATION PROVIDED IS ACCURATE	9	91	368	1225	71	1764
THE CONTENT OF THE BRIEFING WAS SATISFACTORY	14	118	174	1363	92	1761
THE ORDER IN WHICH THE INFORMATION IS PRESENTED IS SATISFACTORY	18	108	245	1323	71	1765
THE INFORMATION IS SUFFICIENT TO MAKE A DECISION TO FLY OR NOT TO FLY	44	305	366	927	145	1787
THE MESSAGE IS TOO LONG	95	965	409	241	39	1749
THE MESSAGE IS TOO SHORT	127	962	462	151	17	1719
THE SPEAKER IS EASY TO UNDERSTAND	40	160	170	1257	161	1788
THE BACKGROUND NOISE IS SUFFICIENTLY LOW	40	139	193	1280	115	1767
THE SPEAKER TALKED TOO SLOWLY	133	1295	251	56	6	1741
THE SPEAKER TALKED TOO FAST	88	1059	293	270	36	1746
THE RECORDED MESSAGE WAS OBTAINED PROMPTLY AFTER DIALING	86	183	162	1135	218	1784
IT IS EASY TO COMPREHEND THE INFORMATION	15	103	195	1326	118	1757
THE INFORMATION PROVIDES A CLEAR MENTAL PICTURE OF THE WEATHER	26	182	400	1086	94	1788
THE NOTAMS AND FLIGHT PRECAUTIONS ARE USEFUL	7	38	153	1177	410	1785
IT IS HELPFUL TO HAVE THE INFORMATION UPDATED HOURLY	12	23	117	870	779	1801
TOTAL	1242	7587	4614	14152	2436	30031
TOTAL (TO ALL TRIAL PATWAS STATEMENTS FOR WHICH STRONGLY AGREE = FAVARABLE)	311	1450	2543	12969	2274	19547

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
PILOT LICENSE
(STRONGLY AGREE = FAVORABLE)

TYPE OF PILOT LICENSE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STUDENT	35	182	427	1507	271	2422
PRIVATE	167	812	1336	7320	1313	10948
COMMERCIAL	89	380	672	3478	582	5201
AIRLINE	20	74	102	641	106	943
TOTAL	311	1448	2537	12946	2272	18514

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
WEATHER RATING
(STRONGLY AGREE = FAVORABLE)

TYPE OF WEATHER RATING	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
IFR	119	505	802	4300	713	6439
VFR	192	943	1735	8646	1559	12075
TOTAL	311	1448	2537	12946	2272	18514

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
ENGINE LICENSE
(STRONGLY AGREE = FAVORABLE)

TYPE OF ENGINE LICENSE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
MULTI	91	373	592	2979	496	4531
SINGLE	210	1042	1869	9598	1705	14424
TOTAL	301	1415	2461	12577	2201	18955

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
FLYING TIME
(STRONGLY AGREE = FAVORABLE)

FLYING TIME(HOURS)	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-400	178	851	1516	7491	1448	11484
401-800	33	166	285	1692	256	2432
801-1600	41	174	286	1353	240	2094
1601-3200	27	115	201	1088	129	1560
3200+	32	144	255	1345	201	1977
TOTAL	311	1450	2543	12969	2274	18547

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
GADO
(STRONGLY AGREE = FAVORABLE)

GADO	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
FARMINGDALE	146	793	1529	8029	1443	11940
TETERBORO	147	578	883	4435	743	6786
TOTAL	293	1371	2412	12464	2186	18726

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
TYPE OF POWER PLANT MOST FREQUENTLY FLOWN
(STRONGLY AGREE = FAVORABLE)

TYPE OF POWER PLANT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
PISTON	289	1369	2311	12101	2131	18201
TURBO	5	28	81	224	55	393
JET	14	49	136	537	67	803
TOTAL	308	1446	2528	12862	2253	19397

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT COUNTIES OF RESIDENCE
(STRONGLY AGREE = FAVORABLE)

COUNTY OF RESIDENCE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
QUEENS	12	59	114	897	214	1296
PASSAIC	12	58	68	346	58	542
MANHATTAN	18	62	124	681	148	1033
BROOKLYN	4	51	86	417	60	618
NASSAU	33	204	361	1953	325	2876
BRONX	3	19	28	193	27	270
HUNTERDON	0	5	1	14	2	22
HUDSON	4	17	22	137	27	207
BERGEN	40	140	214	1156	150	1700
RICHMOND	9	21	19	167	24	240
MIDDLESEX	14	78	67	467	81	707
MONMOUTH	21	64	150	564	79	878
MORRIS	16	73	112	756	128	1085
WESTCHESTER	17	98	174	945	163	1397
ORANGE	6	17	48	255	41	367
SUFFOLK	35	190	337	1664	294	2520
SULLIVAN	0	0	1	32	0	33
ROCKLAND	3	28	69	284	49	433
SOMERSET	1	14	4	78	11	108
PUTNAM	3	14	19	140	42	218
ESSEX	28	81	129	487	120	845
UNION	8	39	98	366	71	582
SUSSEX	0	0	2	18	2	22
MERCER	2	6	13	43	13	77
DUTCHESS	1	15	80	225	31	352
ULSTER	2	14	68	158	23	265
TOTAL	292	1367	2408	12443	2183	18693

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT ANNUAL FLYING TIME
(STRONGLY AGREE = FAVORABLE)

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-20	48	219	682	2381	389	3719
21-50	62	385	698	3583	592	5320
51-100	88	412	591	3645	731	5467
101-200	71	259	288	1909	311	2838
201-400	20	88	118	786	124	1136
400+	22	87	166	665	127	1067
TOTAL	311	1450	2543	12969	2274	19547

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT BASIC PATWAS LISTENING
(STRONGLY AGREE = FAVORABLE)

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-20	242	1152	2227	10675	1823	16119
21-50	36	184	208	1404	309	2141
51-100	19	58	56	520	92	745
101-200	7	15	26	193	21	262
201-400	4	29	14	110	17	174
400+	3	12	12	67	12	106
TOTAL	311	1450	2543	12969	2274	19547

REACTIONS TO TRIAL PATHAS STATEMENTS
CATEGORIZED BY
DIFFERENT TRIAL PATHAS LISTENING
(STRONGLY AGREE = FAVORABLE)

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-5	123	580	1592	4899	744	7938
6-10	50	304	320	2714	459	3847
11-20	70	275	342	2609	459	3755
21-40	41	155	143	1451	322	2112
40+	27	136	146	1296	290	1895
TOTAL	311	1450	2543	12969	2274	19547

JOINT REACTIONS OF ALL RESPONDENTS

TOO MUCH INFORMATION IS PROVIDED

NOT ENOUGH INFORMATION IS PROVIDED	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	85	46	9	20	5	165
DISAGREE	103	545	58	92	3	801
UNCERTAIN	39	197	161	5	1	403
AGREE	59	229	21	12	1	322
STRONGLY AGREE	25	12	1	2	3	43
TOTAL	311	1029	250	131	13	1734

JOINT REACTIONS OF ALL RESPONDENTS

THE MESSAGE IS TOO LONG

THE MESSAGE IS TOO SHORT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	52	15	5	34	19	125
DISAGREE	12	707	39	169	10	937
UNCERTAIN	11	97	329	18	1	456
AGREE	8	124	7	9	0	148
STRONGLY AGREE	11	4	0	1	1	17
TOTAL	94	947	400	231	31	1703

JOINT REACTIONS OF ALL RESPONDENTS

THE SPEAKER TALKED TOO SLOWLY

THE SPEAKER TALKED TOO FAST	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	69	12	1	1	3	86
DISAGREE	14	983	22	32	1	1052
UNCERTAIN	2	70	216	3	0	291
AGREE	30	208	10	12	0	260
STRONGLY AGREE	18	12	0	1	2	33
TOTAL	133	1285	249	49	6	1722

CONTACT OF THE FSS FOR ADDITIONAL INFORMATION
AFTER LISTENING TO THE TRIAL PATWAS

	FSS CONTACTED		
	NO	YES	TOTAL
PRE-FLIGHT FSS CONTACT	535	1313	1848
IN-FLIGHT FSS CONTACT	726	803	1529
TOTAL	1261	2116	3377

LENGTH OF FSS CONTACTS WHEN MADE

	LESS THAN 1 MINUTE	BETWEEN 1 TO 5 MINS.	BETWEEN 6 TO 10 MINS.	MORE THAN 10 MINS.	TOTAL NO. CONTACTS
PRE-FLIGHT FSS CONTACT	276	956	53	28	1313
IN-FLIGHT FSS CONTACT	483	298	9	13	803
TOTAL	759	1254	62	41	2116

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
-PERCENTAGES-

CHARACTERISTIC	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
AMOUNT OF INFORMATION PROVIDED	14.97	22.16	62.87	100.00
ACCURACY OF INFORMATION PROVIDED	8.50	47.57	43.93	100.00
ADEQUACY TO SUPPORT A GO/NO-GO DECISION	10.32	41.38	48.30	100.00
YOUR SATISFACTION WITH BRIEFING	12.46	26.25	61.29	100.00
ORDER IN WHICH INFORMATION IS PRESENTED	11.76	38.24	50.00	100.00
MESSAGE LENGTH	14.09	36.32	49.59	100.00
QUALITY OF SPEAKING VOICE	9.57	51.93	38.49	100.00
AMOUNT OF BACKGROUND NOISE	9.16	56.01	34.83	100.00
SPEAKING RATE	8.75	58.49	32.76	100.00
CONNECTED PROMPTLY TO RECORDED MESSAGE	9.57	46.33	44.09	100.00
MINIMIZES ADDITIONAL PREFLIGHT INFORMATION FROM FSS	10.79	32.27	56.94	100.00
MINIMIZES ADDITIONAL INFLIGHT INFORMATION FROM FSS	8.46	44.57	46.97	100.00
EASE OF COMPREHENSION	8.80	45.85	45.34	100.00
USEFULLNESS OF INFORMATION	9.62	28.76	61.62	100.00
RESPONSIVE TO YOUR NEEDS	10.27	31.01	58.73	100.00
PROVIDES A CLEAR MENTAL PICTURE OF THE WEATHER	9.14	37.16	53.71	100.00
AMOUNT OF UNNECESSARY INFORMATION PROVIDED	12.96	50.47	36.56	100.00
TOTAL	10.54	40.84	48.61	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
PILOT LICENSE
-PERCENTAGES-

TYPE OF PILOT LICENSE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
STUDENT	11.14	37.77	51.09	100.00
PRIVATE	10.15	40.71	49.13	100.00
COMMERCIAL	10.76	42.38	46.86	100.00
AIRLINE	11.16	38.26	50.58	100.00
TOTAL	10.49	40.80	48.71	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
WEATHER RATING
-PERCENTAGES-

TYPE OF WEATHER RATING	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
IFR	9.22	42.29	48.49	100.00
VFR	11.24	39.92	48.84	100.00
TOTAL	10.49	40.80	48.71	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
ENGINE LICENSE
-PERCENTAGES-

TYPE OF ENGINE LICENSE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
MULTI	10.80	43.57	45.63	100.00
SINGLE	10.42	40.29	49.29	100.00
TOTAL	10.52	41.18	48.30	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
FLYING TIME
-PERCENTAGES-

FLYING TIME(HOURS)	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-400	10.38	40.31	49.31	100.00
401-800	8.16	39.64	52.20	100.00
801-1600	10.83	40.04	49.13	100.00
1601-3200	11.70	44.21	44.09	100.00
3200+	12.79	42.67	44.54	100.00
TOTAL	10.54	40.84	48.61	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHAS
CATEGORIZED BY
GADO
-PERCENTAGES-

GADO	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
FARMINGDALE	9.89	40.24	49.87	100.00
TETERBORO	11.42	41.65	46.93	100.00
TOTAL	10.43	40.74	48.83	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHAS
CATEGORIZED BY
TYPE OF POWER PLANT MOST FREQUENTLY FLOWN
-PERCENTAGES-

TYPE OF POWER PLANT	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
PISTON	10.37	40.73	48.89	100.00
TURBO	10.18	45.82	44.00	100.00
JET	14.18	38.40	47.42	100.00
TOTAL	10.53	40.72	48.75	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
DIFFERENT COUNTIES OF RESIDENCE
-PERCENTAGES-

COUNTY OF RESIDENCE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
QUEENS	10.91	36.69	52.40	100.00
PASSAIC	10.69	49.27	40.04	100.00
MANHATTAN	8.28	34.67	57.04	100.00
BROOKLYN	13.38	37.79	48.82	100.00
NASSAU	9.72	41.36	48.92	100.00
BRONX	16.82	50.91	32.27	100.00
HUNTERDON	0.	11.76	88.24	100.00
HUDSON	12.81	38.42	48.77	100.00
BERGEN	8.94	42.52	48.53	100.00
RICHMOND	1.89	30.66	67.45	100.00
MIDDLESEX	9.52	38.57	51.90	100.00
MONMOUTH	13.02	40.42	46.56	100.00
MORRIS	13.50	38.77	47.73	100.00
WESTCHESTER	10.52	40.24	49.24	100.00
ORANGE	9.20	42.33	48.47	100.00
SUFFOLK	9.22	43.19	47.59	100.00
SULLIVAN	0.	26.47	73.53	100.00
ROCKLAND	9.41	36.59	54.01	100.00
SOMERSET	11.76	63.73	24.51	100.00
PUTNAM	11.02	54.24	34.75	100.00
ESSEX	10.93	42.57	46.50	100.00
UNION	15.84	40.05	44.12	100.00
SUSSEX	23.53	17.65	58.82	100.00
MERCER	10.59	37.65	51.76	100.00
OUTCHESS	8.21	34.87	56.92	100.00
ULSTER	13.69	51.79	34.52	100.00
TOTAL	10.46	40.76	48.78	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT ANNUAL FLYING TIME
-PERCENTAGES-

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-20	10.76	40.55	48.69	100.00
21-50	8.33	38.42	53.25	100.00
51-100	10.90	40.48	48.62	100.00
101-200	11.07	42.55	46.37	100.00
201-400	15.06	43.64	41.30	100.00
400+	11.39	46.50	42.11	100.00
TOTAL	10.54	40.84	48.61	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT BASIC PATWAS LISTENING
-PERCENTAGES-

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-20	11.09	40.67	48.24	100.00
21-50	9.65	40.76	49.59	100.00
51-100	9.66	41.86	48.48	100.00
101-200	5.18	45.78	49.05	100.00
201-400	5.99	37.83	56.18	100.00
400+	12.24	42.18	45.58	100.00
TOTAL	10.54	40.84	48.61	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHS
CATEGORIZED BY
DIFFERENT TRIAL PATHS LISTENING
-PERCENTAGES-

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-5	12.80	44.20	43.00	100.00
6-10	10.64	40.53	48.83	100.00
11-20	9.76	37.85	52.39	100.00
21-40	8.55	40.45	51.01	100.00
40+	7.35	36.89	55.76	100.00
TOTAL	10.54	40.84	48.61	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
-PERCENTAGES-

STATEMENT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
TOO MUCH INFORMATION IS PROVIDED	18.05	58.97	14.13	7.74	1.12	100.00
NOT ENOUGH INFORMATION IS PROVIDED	9.51	46.07	23.15	18.74	2.52	100.00
THE INFORMATION PROVIDED IS ACCURATE	0.51	5.16	20.86	69.44	4.02	100.00
THE CONTENT OF THE BRIEFING WAS SATISFACTORY	0.80	6.70	9.88	77.40	5.22	100.00
THE ORDER IN WHICH THE INFORMATION IS PRESENTED IS SATISFACTORY	1.02	6.12	13.88	74.96	4.02	100.00
THE INFORMATION IS SUFFICIENT TO MAKE A DECISION TO FLY OR NOT TO FLY	2.46	17.07	20.48	51.87	8.11	100.00
THE MESSAGE IS TOO LONG	5.43	55.17	23.38	13.78	2.23	100.00
THE MESSAGE IS TOO SHORT	7.39	55.96	26.88	8.78	0.99	100.00
THE SPEAKER IS EASY TO UNDERSTAND	2.24	8.95	9.51	70.30	9.00	100.00
THE BACKGROUND NOISE IS SUFFICIENTLY LOW	2.26	7.87	10.92	72.44	6.51	100.00
THE SPEAKER TALKED TOO SLOWLY	7.64	74.38	14.42	3.22	0.34	100.00
THE SPEAKER TALKED TOO FAST	5.04	60.65	16.78	15.46	2.06	100.00
THE RECORDED MESSAGE WAS OBTAINED PROMPTLY AFTER DIALING	4.82	10.26	9.08	63.62	12.22	100.00
IT IS EASY TO COMPREHEND THE INFORMATION	0.85	5.86	11.10	75.47	6.72	100.00
THE INFORMATION PROVIDES A CLEAR MENTAL PICTURE OF THE WEATHER	1.45	10.18	22.37	60.74	5.26	100.00
THE NOTAMS AND FLIGHT PRECAUTIONS ARE USEFUL	0.39	2.13	8.57	65.94	22.97	100.00
IT IS HELPFUL TO HAVE THE INFORMATION UPDATED HOURLY	0.67	1.28	6.50	48.31	43.25	100.00
TOTAL	4.14	25.26	15.36	47.12	8.11	100.00

REACTIONS TO TRIAL PATHAS STATEMENTS
CATEGORIZED BY
PILOT LICENSE
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

TYPE OF PILOT LICENSE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STUDENT	1.45	7.51	17.63	62.22	11.19	100.00
PRIVATE	1.53	7.42	12.20	66.86	11.99	100.00
COMMERCIAL	1.71	7.31	12.92	66.87	11.19	100.00
AIRLINE	2.12	7.85	10.82	67.97	11.24	100.00
TOTAL	1.59	7.42	13.00	66.34	11.64	100.00

REACTIONS TO TRIAL PATHAS STATEMENTS
CATEGORIZED BY
WEATHER RATING
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

TYPE OF WEATHER RATING	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
IFR	1.85	7.84	12.46	66.78	11.07	100.00
VFR	1.47	7.21	13.27	66.13	11.92	100.00
TOTAL	1.59	7.42	13.00	66.34	11.64	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
ENGINE LICENSE
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

TYPE OF ENGINE LICENSE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
MULTI	2.01	8.23	13.07	65.75	10.95	100.00
SINGLE	1.46	7.22	12.96	66.54	11.82	100.00
TOTAL	1.59	7.47	12.98	66.35	11.61	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
FLYING TIME
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

FLYING TIME(HOURS)	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-400	1.55	7.41	13.20	65.23	12.61	100.00
401-800	1.36	6.83	11.72	69.57	10.53	100.00
801-1600	1.96	8.31	13.66	64.61	11.46	100.00
1601-3200	1.73	7.37	12.88	69.74	8.27	100.00
3200+	1.62	7.28	12.90	68.03	10.17	100.00
TOTAL	1.59	7.42	13.01	66.35	11.63	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
GADO
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

GADO	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
FARMINGDALE	1.22	6.64	12.81	67.24	12.09	100.00
TETERBORO	2.17	8.52	13.01	65.36	10.95	100.00
TOTAL	1.56	7.32	12.88	66.56	11.67	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
TYPE OF POWER PLANT MOST FREQUENTLY FLOWN
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

TYPE OF POWER PLANT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
PISTON	1.59	7.52	12.70	66.49	11.71	100.00
TURBO	1.27	7.12	20.61	57.00	13.99	100.00
JET	1.74	6.10	16.94	66.87	8.34	100.00
TOTAL	1.59	7.45	13.03	66.31	11.62	100.00

REACTIONS TO TRIAL PATHAS STATEMENTS
CATEGORIZED BY
DIFFERENT COUNTIES OF RESIDENCE
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

COUNTY OF RESIDENCE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
QUEENS	0.93	4.55	8.80	69.21	16.51	100.00
PASSAIC	2.21	10.70	12.55	63.84	10.70	100.00
MANHATTAN	1.74	6.00	12.00	65.92	14.33	100.00
BROOKLYN	0.65	8.25	13.92	67.48	9.71	100.00
NASSAU	1.15	7.09	12.55	67.91	11.30	100.00
BRONX	1.11	7.04	10.37	71.48	10.00	100.00
HUNTERDON	0.	22.73	4.55	63.64	9.09	100.00
HUDSON	1.93	8.21	10.63	66.18	13.04	100.00
BERGEN	2.35	8.24	12.59	68.00	8.82	100.00
RICHMOND	3.75	8.75	7.92	69.58	10.00	100.00
MIDDLESEX	1.98	11.03	9.48	66.05	11.46	100.00
MONMOUTH	2.39	7.29	17.08	64.24	9.00	100.00
MORRIS	1.47	6.73	10.32	69.68	11.80	100.00
WESTCHESTER	1.22	7.02	12.46	67.64	11.67	100.00
ORANGE	1.63	4.63	13.08	69.48	11.17	100.00
SUFFOLK	1.39	7.54	13.37	66.03	11.67	100.00
SULLIVAN	0.	0.	3.03	96.97	0.	100.00
ROCKLAND	0.69	6.47	15.94	65.59	11.32	100.00
SOMERSET	0.93	12.96	3.70	72.22	10.19	100.00
PUTNAM	1.38	6.42	8.72	64.22	19.27	100.00
ESSEX	3.31	9.59	15.27	57.63	14.20	100.00
UNION	1.37	6.70	16.84	62.89	12.20	100.00
SUSSEX	0.	0.	9.09	81.82	9.09	100.00
MERCER	2.60	7.79	16.88	55.84	16.88	100.00
DUTCHESS	0.28	4.26	22.73	63.92	8.81	100.00
ULSTER	0.75	5.28	25.66	59.62	8.68	100.00
TOTAL	1.56	7.31	12.88	66.57	11.68	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT ANNUAL FLYING TIME
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-20	1.29	5.89	18.34	64.02	10.46	100.00
21-50	1.17	7.24	13.12	67.35	11.13	100.00
51-100	1.61	7.54	10.81	66.67	13.37	100.00
101-200	2.50	9.13	10.15	67.27	10.96	100.00
201-400	1.76	7.75	10.39	69.19	10.92	100.00
400+	2.06	8.15	15.56	62.32	11.90	100.00
TOTAL	1.59	7.42	13.01	66.35	11.63	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT BASIC PATWAS LISTENING
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-20	1.50	7.15	13.82	66.23	11.31	100.00
21-50	1.68	8.59	9.72	65.58	14.43	100.00
51-100	2.55	7.79	7.52	69.80	12.35	100.00
101-200	2.67	5.73	9.92	73.66	8.02	100.00
201-400	2.30	16.67	8.05	63.22	9.77	100.00
400+	2.83	11.32	11.32	63.21	11.32	100.00
TOTAL	1.59	7.42	13.01	66.35	11.63	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT TRIAL PATWAS LISTENING
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-5	1.55	7.31	20.06	61.72	9.37	100.00
6-10	1.30	7.90	8.32	70.55	11.93	100.00
11-20	1.86	7.32	9.11	69.48	12.22	100.00
21-40	1.94	7.34	6.77	68.70	15.25	100.00
40+	1.42	7.18	7.70	68.39	15.30	100.00
TOTAL	1.59	7.42	13.01	66.35	11.63	100.00

JOINT REACTIONS OF ALL RESPONDENTS
-PERCENTAGES-

TOO MUCH INFORMATION IS PROVIDED

NOT ENOUGH INFORMATION IS PROVIDED	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	51.52	27.88	5.45	12.12	3.03	100.00
DISAGREE	12.86	68.04	7.24	11.49	0.37	100.00
UNCERTAIN	9.68	48.88	39.95	1.24	0.25	100.00
AGREE	18.32	71.12	6.52	3.73	0.31	100.00
STRONGLY AGREE	58.14	27.91	2.33	4.65	6.98	100.00
TOTAL	17.94	59.34	14.42	7.55	0.75	100.00

JOINT REACTIONS OF ALL RESPONDENTS
-PERCENTAGES-

THE MESSAGE IS TOO LONG

THE MESSAGE IS TOO SHORT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	41.60	12.00	4.00	27.20	15.20	100.00
DISAGREE	1.25	73.88	6.17	17.66	1.04	100.00
UNCERTAIN	2.41	21.27	72.15	3.95	0.22	100.00
AGREE	5.41	83.78	4.73	6.08	0.	100.00
STRONGLY AGREE	64.71	23.53	0.	5.88	5.88	100.00
TOTAL	5.52	55.61	23.49	13.56	1.82	100.00

JOINT REACTIONS OF ALL RESPONDENTS
-PERCENTAGES-

THE SPEAKER TALKED TOO SLOWLY

THE SPEAKER TALKED TOO FAST	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	80.23	13.95	1.16	1.16	3.49	100.00
DISAGREE	1.33	93.44	2.09	3.04	0.10	100.00
UNCERTAIN	0.69	24.05	74.23	1.03	0.	100.00
AGREE	11.54	80.00	3.85	4.62	0.	100.00
STRONGLY AGREE	54.55	36.36	0.	3.03	6.06	100.00
TOTAL	7.72	74.62	14.46	2.85	0.35	100.00

QUESTIONNAIRE DATA (SUPPLEMENTAL)

The questionnaire data obtained from responses to the supplemental survey are contained in this section. The material is discussed in volume I.

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS

CHARACTERISTIC	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
AMOUNT OF INFORMATION PROVIDED	29	34	159	222
ACCURACY OF INFORMATION PROVIDED	23	91	107	221
ADEQUACY TO SUPPORT A GO/NO-GO DECISION	18	60	141	219
YOUR SATISFACTION WITH BRIEFING	25	34	159	218
ORDER IN WHICH INFORMATION IS PRESENTED	21	73	121	215
MESSAGE LENGTH	29	66	123	218
QUALITY OF SPEAKING VOICE	23	110	86	219
AMOUNT OF BACKGROUND NOISE	25	108	86	219
SPEAKING RATE	16	125	75	216
CONNECTED PROMPTLY TO RECORDED MESSAGE	26	82	111	219
MINIMIZES ADDITIONAL PREFLIGHT INFORMATION FROM FSS	24	39	157	220
MINIMIZES ADDITIONAL INFLIGHT INFORMATION FROM FSS	22	73	122	217
EASE OF COMPREHENSION	23	79	119	221
USEFULLNESS OF INFORMATION	24	42	156	222
RESPONSIVE TO YOUR NEEDS	25	40	155	220
PROVIDES A CLEAR MENTAL PICTURE OF THE WEATHER	22	58	141	221
AMOUNT OF UNNECESSARY INFORMATION PROVIDED	37	96	82	215
TOTAL	412	1210	2100	3722

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
PILOT LICENSE

TYPE OF PILOT LICENSE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
STUDENT	10	97	98	205
PRIVATE	242	703	985	1930
COMMERCIAL	158	361	890	1409
AIRLINE	2	40	103	145
TOTAL	412	1201	2076	3689

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
CATEGORIZED BY
WEATHER RATING

TYPE OF WEATHER RATING	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
IFR	211	476	1122	1809
VFR	201	725	954	1880
TOTAL	412	1201	2076	3689

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
ENGINE LICENSE

TYPE OF ENGINE LICENSE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
MULTI	171	352	683	1206
SINGLE	240	813	1362	2415
TOTAL	411	1165	2045	3621

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
FLYING TIME

FLYING TIME(HOURS)	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-400	143	536	762	1441
401-800	94	293	417	804
801-1600	85	181	419	685
1601-3200	63	114	320	497
3200+	27	86	182	295
TOTAL	412	1210	2100	3722

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
GADC

GADD	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
FARMINGDALE	283	732	1373	2388
TETERBORO	125	448	661	1234
TOTAL	408	1180	2034	3622

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
TYPE OF POWER PLANT MOST FREQUENTLY FLOWN

TYPE OF POWER PLANT	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
PISTON	358	1138	2009	3505
TURBO	29	26	10	65
JET	22	29	51	102
TOTAL	409	1193	2070	3672

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT COUNTIES OF RESIDENCE

COUNTY OF RESIDENCE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
QUEENS	18	50	186	254
PASSAIC	0	16	69	85
MANHATTAN	17	119	151	287
BROOKLYN	34	80	72	186
NASSAU	66	147	303	516
BRONX	10	13	10	33
HUNTERDON	0	0	0	0
HUDSON	1	15	18	34
BERGEN	57	157	199	413
RICHMOND	21	26	51	98
MIDDLESEX	25	51	60	136
MONMOUTH	4	47	49	100
MORRIS	13	28	23	64
WESTCHESTER	28	105	309	442
ORANGE	0	4	29	33
SUFFOLK	46	131	193	370
SULLIVAN	0	0	0	0
ROCKLAND	27	31	43	101
SOMERSET	0	19	15	34
PUTNAM	0	9	8	17
ESSEX	21	79	117	217
UNION	2	15	83	100
SUSSEX	2	16	16	34
MERCER	0	5	12	17
DUTCHESS	1	9	7	17
ULSTER	0	6	11	17
TOTAL	393	1178	2034	3605

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT ANNUAL FLYING TIME

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-20	19	108	209	336
21-50	99	226	252	577
51-100	93	387	674	1154
101-200	116	372	650	1138
201-400	59	74	197	330
400+	26	43	118	187
TOTAL	412	1210	2100	3722

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT BASIC PATWAS LISTENING

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-20	272	815	1220	2307
21-50	113	264	497	874
51-100	24	82	231	337
101-200	2	40	94	136
201-400	0	3	31	34
400+	1	6	27	34
TOTAL	412	1210	2100	3722

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT TRIAL PATWAS LISTENING

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-5	132	302	327	761
6-10	85	247	345	677
11-20	60	238	525	823
21-40	88	249	423	760
40+	47	174	480	701
TOTAL	412	1210	2100	3722

REACTIONS TO TRIAL PATWAS STATEMENTS

STATEMENT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
TOO MUCH INFORMATION IS PROVIDED	110	245	28	27	11	421
NOT ENOUGH INFORMATION IS PROVIDED	54	209	72	70	8	413
THE INFORMATION PROVIDED IS ACCURATE	1	11	49	322	27	410
THE CONTENT OF THE BRIEFING WAS SATISFACTORY	3	20	18	340	36	417
THE ORDER IN WHICH THE INFORMATION IS PRESENTED IS SATISFACTORY	5	14	33	331	33	416
THE INFORMATION IS SUFFICIENT TO MAKE A DECISION TO FLY OR NOT TO FLY	11	48	72	247	40	418
THE MESSAGE IS TOO LONG	40	268	57	39	11	415
THE MESSAGE IS TOO SHORT	36	272	62	29	8	407
THE SPEAKER IS EASY TO UNDERSTAND	8	27	32	298	50	415
THE BACKGROUND NOISE IS SUFFICIENTLY LOW	10	28	21	322	37	418
THE SPEAKER TALKED TOO SLOWLY	49	318	37	13	0	417
THE SPEAKER TALKED TOO FAST	24	288	45	47	9	413
THE RECORDED MESSAGE WAS OBTAINED PROMPTLY AFTER DIALING	14	37	13	259	95	418
IT IS EASY TO COMPREHEND THE INFORMATION	0	15	13	324	60	412
THE INFORMATION PROVIDES A CLEAR MENTAL PICTURE OF THE WEATHER	2	23	52	302	36	415
THE NOTAMS AND FLIGHT PRECAUTIONS ARE USEFUL	2	10	22	256	128	418
IT IS HELPFUL TO HAVE THE INFORMATION UPDATED HOURLY	1	1	15	170	232	419
TOTAL	370	1834	641	3396	821	7062
TOTAL (TO ALL TRIAL PATWAS STATEMENTS FOR WHICH STRONGLY AGREE = FAVARABLE)	57	234	340	3171	774	4576

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
PILOT LICENSE
(STRONGLY AGREE = FAVORABLE)

TYPE OF PILOT LICENSE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STUDENT	1	19	33	172	66	291
PRIVATE	33	140	202	1811	423	2609
COMMERCIAL	21	57	87	1038	256	1459
AIRLINE	2	18	18	150	29	217
TOTAL	57	234	340	3171	774	4576

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
WEATHER RATING
(STRONGLY AGREE = FAVORABLE)

TYPE OF WEATHER RATING	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
IFR	25	101	153	1515	321	2115
VFR	32	133	187	1656	453	2461
TOTAL	57	234	340	3171	774	4576

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
ENGINE LICENSE
(STRONGLY AGREE = FAVORABLE)

TYPE OF ENGINE LICENSE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
MULTI	20	62	87	927	212	1308
SINGLE	31	171	245	2233	546	3226
TOTAL	51	233	332	3160	758	4534

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
FLYING TIME
(STRONGLY AGREE = FAVORABLE)

FLYING TIME(HOURS)	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-400	25	116	178	1389	391	2099
401-800	11	45	65	612	164	897
801-1600	5	25	30	515	89	664
1601-3200	9	26	40	405	79	559
3200+	7	22	27	250	51	357
TOTAL	57	234	340	3171	774	4576

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
GADC
(STRONGLY AGREE = FAVORABLE)

GADC	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
FARMINGDALE	24	100	208	2057	517	2906
TETERBORO	29	125	118	1026	240	1538
TOTAL	53	225	326	3083	757	4444

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
TYPE OF POWER PLANT MOST FREQUENTLY FLOWN
(STRONGLY AGREE = FAVORABLE)

TYPE OF POWER PLANT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
PISTON	56	221	327	3022	745	4371
TURBO	1	5	2	65	13	86
JET	0	8	11	73	16	108
TOTAL	57	234	340	3160	774	4565

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT COUNTIES OF RESIDENCE
(STRONGLY AGREE = FAVORABLE)

COUNTY OF RESIDENCE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
QUEENS	1	6	26	241	63	337
PASSAIC	3	8	10	60	29	110
MANHATTAN	3	12	37	273	70	395
BROOKLYN	1	15	13	139	52	220
NASSAU	10	20	45	466	109	650
BRONX	2	4	4	34	11	55
HUNTERDON	0	0	0	0	0	0
HUDSON	2	4	4	38	7	55
BERGEN	9	45	37	350	61	502
RICHMOND	2	5	6	78	6	97
MIDDLESEX	1	10	12	130	12	165
MONMOUTH	3	5	7	80	35	130
MORRIS	7	13	13	82	27	142
WESTCHESTER	1	16	18	293	61	389
ORANGE	0	0	1	26	17	44
SUFFOLK	1	13	45	333	85	477
SULLIVAN	0	0	0	0	0	0
ROCKLAND	2	1	6	68	11	88
SOMERSET	1	0	5	12	4	22
PUTNAM	0	5	0	55	17	77
ESSEX	2	25	15	150	34	226
UNION	1	7	6	79	28	121
SUSSEX	0	3	1	29	0	33
MERCER	0	5	8	16	3	32
DUTCHESS	0	2	2	19	10	33
ULSTER	1	0	5	22	5	33
TOTAL	53	224	326	3073	757	4433

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT ANNUAL FLYING TIME
(STRONGLY AGREE = FAVORABLE)

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-20	1	17	34	297	70	419
21-50	11	38	48	570	109	776
51-100	17	84	123	1003	298	1525
101-200	19	61	88	853	201	1222
201-400	6	21	40	301	59	427
400+	3	13	7	147	37	207
TOTAL	57	234	340	3171	774	4576

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT BASIC PATWAS LISTENING
(STRONGLY AGREE = FAVORABLE)

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-20	39	179	253	2285	594	3350
21-50	8	29	55	544	110	746
51-100	7	17	18	189	41	272
101-200	3	6	8	94	20	131
201-400	0	3	0	15	4	22
400+	0	0	6	44	5	55
TOTAL	57	234	340	3171	774	4576

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT TRIAL PATWAS LISTENING
(STRONGLY AGREE = FAVORABLE)

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-5	13	32	76	592	130	843
6-10	6	36	42	527	111	722
11-20	14	69	81	768	188	1120
21-40	8	47	78	692	180	1005
40+	16	50	63	592	165	886
TOTAL	57	234	340	3171	774	4576

JOINT REACTIONS OF ALL RESPONDENTS

TOO MUCH INFORMATION IS PROVIDED

NOT ENOUGH INFORMATION IS PROVIDED	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	31	11	5	1	6	54
DISAGREE	35	147	7	19	1	209
UNCERTAIN	18	39	12	2	1	72
AGREE	21	41	4	4	0	70
STRONGLY AGREE	4	3	0	0	1	8
TOTAL	109	241	28	26	9	413

JOINT REACTIONS OF ALL RESPONDENTS

THE MESSAGE IS TOO LONG

THE MESSAGE IS TOO SHORT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	23	2	3	3	5	36
DISAGREE	6	214	17	34	1	272
UNCERTAIN	3	24	34	0	1	62
AGREE	3	22	1	1	0	27
STRONGLY AGREE	4	2	1	0	1	8
TOTAL	39	264	56	38	8	405

JOINT REACTIONS OF ALL RESPONDENTS

THE SPEAKER TALKED TOO SLOWLY

THE SPEAKER TALKED TOO FAST	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	22	1	0	1	0	24
DISAGREE	9	266	7	6	0	288
UNCERTAIN	4	14	26	1	0	45
AGREE	5	35	2	4	0	46
STRONGLY AGREE	9	0	0	0	0	9
TOTAL	49	316	35	12	0	412

CONTACT OF THE FSS FOR ADDITIONAL INFORMATION
AFTER LISTENING TO THE TRIAL PATHAS

	FSS CONTACTED		
	NO	YES	TOTAL
PRE-FLIGHT FSS CONTACT	102	271	373
IN-FLIGHT FSS CONTACT	138	179	317
TOTAL	240	450	690

LENGTH OF FSS CONTACTS WHEN MADE

	LESS THAN 1 MINUTE	BETWEEN 1 TO 5 MINS.	BETWEEN 6 TO 10 MINS.	MORE THAN 10 MINS.	TOTAL NO. CONTACTS
PRE-FLIGHT FSS CONTACT	81	180	4	6	271
IN-FLIGHT FSS CONTACT	119	59	0	1	179
TOTAL	200	239	4	7	450

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
PILOT LICENSE
-PERCENTAGES-

TYPE OF PILOT LICENSE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
STUDENT	4.88	47.32	47.80	100.00
PRIVATE	12.54	36.42	51.04	100.00
COMMERCIAL	11.21	25.62	63.17	100.00
AIRLINE	1.38	27.59	71.03	100.00
TOTAL	11.17	32.56	56.28	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
WEATHER RATING
-PERCENTAGES-

TYPE OF WEATHER RATING	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
IFR	11.66	26.31	62.02	100.00
VFR	10.69	38.56	50.74	100.00
TOTAL	11.17	32.56	56.28	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATHWAS
-PERCENTAGES-

CHARACTERISTIC	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
AMOUNT OF INFORMATION PROVIDED	13.06	15.32	71.62	100.00
ACCURACY OF INFORMATION PROVIDED	10.41	41.18	48.42	100.00
ADEQUACY TO SUPPORT A GO/NO-GO DECISION	8.22	27.40	64.38	100.00
YOUR SATISFACTION WITH BRIEFING	11.47	15.60	72.94	100.00
ORDER IN WHICH INFORMATION IS PRESENTED	9.77	33.95	56.28	100.00
MESSAGE LENGTH	13.30	30.28	56.42	100.00
QUALITY OF SPEAKING VOICE	10.50	50.23	39.27	100.00
AMOUNT OF BACKGROUND NOISE	11.42	49.32	39.27	100.00
SPEAKING RATE	7.41	57.87	34.72	100.00
CONNECTED PROMPTLY TO RECORDED MESSAGE	11.87	37.44	50.68	100.00
MINIMIZES ADDITIONAL PREFLIGHT INFORMATION FROM FSS	10.91	17.73	71.36	100.00
MINIMIZES ADDITIONAL INFLIGHT INFORMATION FROM FSS	10.14	33.64	56.22	100.00
EASE OF COMPREHENSION	10.41	35.75	53.85	100.00
USEFULLNESS OF INFORMATION	10.81	18.92	70.27	100.00
RESPONSIVE TO YOUR NEEDS	11.36	18.18	70.45	100.00
PROVIDES A CLEAR MENTAL PICTURE OF THE WEATHER	9.95	26.24	63.80	100.00
AMOUNT OF UNNECESSARY INFORMATION PROVIDED	17.21	44.65	38.14	100.00
TOTAL	11.07	32.51	56.42	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
GADC
-PERCENTAGES-

GADO	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
FARMINGDALE	11.85	30.65	57.50	100.00
TETERBORO	10.13	36.30	53.57	100.00
TOTAL	11.26	32.58	56.16	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
TYPE OF POWER PLANT MOST FREQUENTLY FLOWN
-PERCENTAGES-

TYPE OF POWER PLANT	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
PISTON	10.21	32.47	57.32	100.00
TURBO	44.62	40.00	15.38	100.00
JET	21.57	28.43	50.00	100.00
TOTAL	11.14	32.49	56.37	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
ENGINE LICENSE
-PERCENTAGES-

TYPE OF ENGINE LICENSE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
MULTI	14.18	29.19	56.63	100.00
SINGLE	9.94	33.66	56.40	100.00
TOTAL	11.35	32.17	56.48	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
FLYING TIME
-PERCENTAGES-

FLYING TIME(HOURS)	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-400	9.92	37.20	52.88	100.00
401-800	11.69	36.44	51.87	100.00
801-1600	12.41	26.42	61.17	100.00
1601-3200	12.68	22.94	64.39	100.00
3200+	9.15	29.15	61.69	100.00
TOTAL	11.07	32.51	56.42	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT COUNTIES OF RESIDENCE
-PERCENTAGES-

COUNTY OF RESIDENCE	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
QUEENS	7.09	19.69	73.23	100.00
PASSAIC	0.	18.82	81.18	100.00
MANHATTAN	5.92	41.46	52.61	100.00
BROOKLYN	18.28	43.01	38.71	100.00
NASSAU	12.79	28.49	58.72	100.00
BRONX	30.30	39.39	30.30	100.00
HUNTERDON	0.	0.	0.	0.
HUDSON	2.94	44.12	52.94	100.00
BERGEN	13.80	38.01	48.18	100.00
RICHMOND	21.43	26.53	52.04	100.00
MIDDLESEX	18.38	37.50	44.12	100.00
MONMOUTH	4.00	47.00	49.00	100.00
MORRIS	20.31	43.75	35.94	100.00
WESTCHESTER	6.33	23.76	69.91	100.00
ORANGE	0.	12.12	87.88	100.00
SUFFOLK	12.43	35.41	52.16	100.00
SULLIVAN	0.	0.	0.	0.
ROCKLAND	26.73	30.69	42.57	100.00
SOMERSET	0.	55.88	44.12	100.00
PUTNAM	0.	52.94	47.06	100.00
ESSEX	9.68	36.41	53.92	100.00
UNION	2.00	15.00	83.00	100.00
SUSSEX	5.88	47.06	47.06	100.00
MERCER	0.	29.41	70.59	100.00
DUTCHESS	5.88	52.94	41.18	100.00
ULSTER	0.	35.29	64.71	100.00
TOTAL	10.90	32.68	56.42	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT ANNUAL FLYING TIME
-PERCENTAGES-

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-20	5.65	32.14	62.20	100.00
21-50	17.16	39.17	43.67	100.00
51-100	8.06	33.54	58.41	100.00
101-200	10.19	32.69	57.12	100.00
201-400	17.88	22.42	59.70	100.00
400+	13.90	22.99	63.10	100.00
TOTAL	11.07	32.51	56.42	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT BASIC PATWAS LISTENING
-PERCENTAGES-

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-20	11.79	35.33	52.88	100.00
21-50	12.93	30.21	56.86	100.00
51-100	7.12	24.33	68.55	100.00
101-200	1.47	29.41	69.12	100.00
201-400	0.	8.82	91.18	100.00
400+	2.94	17.65	79.41	100.00
TOTAL	11.07	32.51	56.42	100.00

COMPARISON BETWEEN BASIC AND TRIAL PATWAS
CATEGORIZED BY
DIFFERENT TRIAL PATWAS LISTENING
-PERCENTAGES-

NUMBER OF TIMES	BASIC BETTER THAN TRIAL	NO SIGNIFICANT DIFFERENCE	TRIAL BETTER THAN BASIC	TOTAL
0-5	17.35	39.68	42.97	100.00
6-10	12.56	36.48	50.96	100.00
11-20	7.29	28.92	63.79	100.00
21-40	11.58	32.76	55.66	100.00
40+	6.70	24.82	68.47	100.00
TOTAL	11.07	32.51	56.42	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
-PERCENTAGES-

STATEMENT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
TOO MUCH INFORMATION IS PROVIDED	26.13	58.19	6.65	6.41	2.61	100.00
NOT ENOUGH INFORMATION IS PROVIDED	13.08	50.61	17.43	16.95	1.94	100.00
THE INFORMATION PROVIDED IS ACCURATE	0.24	2.68	11.95	78.54	6.59	100.00
THE CONTENT OF THE BRIEFING WAS SATISFACTORY	0.72	4.80	4.32	81.53	8.63	100.00
THE ORDER IN WHICH THE INFORMATION IS PRESENTED IS SATISFACTORY	1.20	3.37	7.93	79.57	7.93	100.00
THE INFORMATION IS SUFFICIENT TO MAKE A DECISION TO FLY OR NOT TO FLY	2.63	11.48	17.22	59.09	9.57	100.00
THE MESSAGE IS TOO LONG	9.64	64.58	13.73	9.40	2.65	100.00
THE MESSAGE IS TOO SHORT	8.85	66.83	15.23	7.13	1.97	100.00
THE SPEAKER IS EASY TO UNDERSTAND	1.93	6.51	7.71	71.81	12.05	100.00
THE BACKGROUND NOISE IS SUFFICIENTLY LOW	2.39	6.70	5.02	77.03	8.85	100.00
THE SPEAKER TALKED TOO SLOWLY	11.75	76.26	8.87	3.12	0.	100.00
THE SPEAKER TALKED TOO FAST	5.81	69.73	10.90	11.38	2.18	100.00
THE RECORDED MESSAGE WAS OBTAINED PROMPTLY AFTER DIALING	3.35	8.85	3.11	61.96	22.73	100.00
IT IS EASY TO COMPREHEND THE INFORMATION	0.	3.64	3.16	78.64	14.56	100.00
THE INFORMATION PROVIDES A CLEAR MENTAL PICTURE OF THE WEATHER	0.48	5.54	12.53	72.77	8.67	100.00
THE NOTAMS AND FLIGHT PRECAUTIONS ARE USEFUL	0.48	2.39	5.26	61.24	30.62	100.00
IT IS HELPFUL TO HAVE THE INFORMATION UPDATED HOURLY	0.24	0.24	3.58	40.57	55.37	100.00
TOTAL	5.24	25.97	9.08	48.09	11.63	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
PILOT LICENSE
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

TYPE OF PILOT LICENSE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STUDENT	0.34	6.53	11.34	59.11	22.68	100.00
PRIVATE	1.26	5.37	7.74	69.41	16.21	100.00
COMMERCIAL	1.44	3.91	5.96	71.14	17.55	100.00
AIRLINE	0.92	8.29	8.29	69.12	13.36	100.00
TOTAL	1.25	5.11	7.43	69.30	16.91	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
WEATHER RATING
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

TYPE OF WEATHER RATING	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
IFR	1.18	4.78	7.23	71.63	15.18	100.00
VFR	1.30	5.40	7.60	67.29	18.41	100.00
TOTAL	1.25	5.11	7.43	69.30	16.91	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
ENGINE LICENSE
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

TYPE OF ENGINE LICENSE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
MULTI	1.53	4.74	6.65	70.87	16.21	100.00
SINGLE	0.96	5.30	7.59	69.22	16.92	100.00
TOTAL	1.12	5.14	7.32	69.70	16.72	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
FLYING TIME
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

FLYING TIME(HOURS)	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-400	1.19	5.53	8.48	66.17	18.63	100.00
401-800	1.23	5.02	7.25	68.23	18.28	100.00
801-1600	0.75	3.77	4.52	77.56	13.40	100.00
1601-3200	1.61	4.65	7.16	72.45	14.13	100.00
3200+	1.96	6.16	7.56	70.03	14.29	100.00
TOTAL	1.25	5.11	7.43	69.30	16.91	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
GADO
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

GADO	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
FARMINGDALE	0.83	3.44	7.16	70.78	17.79	100.00
TETERBORO	1.89	8.13	7.67	66.71	15.60	100.00
TOTAL	1.19	5.06	7.34	69.37	17.03	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
TYPE OF POWER PLANT MOST FREQUENTLY FLOWN
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

TYPE OF POWER PLANT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
PISTON	1.28	5.06	7.48	69.14	17.04	100.00
TURBO	1.16	5.81	2.33	75.58	15.12	100.00
JET	0.	7.41	10.19	67.59	14.81	100.00
TOTAL	1.25	5.13	7.45	69.22	16.96	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT COUNTIES OF RESIDENCE
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

COUNTY OF RESIDENCE	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
QUEENS	0.30	1.78	7.72	71.51	18.69	100.00
PASSAIC	2.73	7.27	9.09	54.55	26.36	100.00
MANHATTAN	0.76	3.04	9.37	69.11	17.72	100.00
BROOKLYN	0.45	6.82	5.91	63.18	23.64	100.00
NASSAU	1.54	3.08	6.92	71.69	16.77	100.00
BRONX	3.64	7.27	7.27	61.82	20.00	100.00
HUNTERDON	0.	0.	0.	0.	0.	0.
HUDSON	3.64	7.27	7.27	69.09	12.73	100.00
BERGEN	1.79	8.96	7.37	69.72	12.15	100.00
RICHMOND	2.06	5.15	6.19	80.41	6.19	100.00
MIDDLESEX	0.61	6.06	7.27	78.79	7.27	100.00
MONMOUTH	2.31	3.85	5.38	61.54	26.92	100.00
MORRIS	4.93	9.15	9.15	57.75	19.01	100.00
WESTCHESTER	0.26	4.11	4.63	75.32	15.68	100.00
ORANGE	0.	0.	2.27	59.09	38.64	100.00
SUFFOLK	0.21	2.73	9.43	69.81	17.82	100.00
SULLIVAN	0.	0.	0.	0.	0.	0.
ROCKLAND	2.27	1.14	6.82	77.27	12.50	100.00
SOMERSET	4.55	0.	22.73	54.55	18.18	100.00
PUTNAM	0.	6.49	0.	71.43	22.08	100.00
ESSEX	0.88	11.06	6.64	66.37	15.04	100.00
UNION	0.83	5.79	4.96	65.29	23.14	100.00
SUSSEX	0.	9.09	3.03	87.88	0.	100.00
MERCER	0.	15.63	25.00	50.00	9.38	100.00
DUTCHESS	0.	6.06	6.06	57.58	30.30	100.00
ULSTER	3.03	0.	15.15	66.67	15.15	100.00
TOTAL	1.20	5.05	7.35	69.32	17.08	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT ANNUAL FLYING TIME
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-20	0.24	4.06	8.11	70.88	16.71	100.00
21-50	1.42	4.90	6.19	73.45	14.05	100.00
51-100	1.11	5.51	8.07	65.77	19.54	100.00
101-200	1.55	4.99	7.20	69.80	16.45	100.00
201-400	1.41	4.92	9.37	70.49	13.82	100.00
400+	1.45	6.28	3.38	71.01	17.87	100.00
TOTAL	1.25	5.11	7.43	69.30	16.91	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT BASIC PATWAS LISTENING
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-20	1.16	5.34	7.55	68.21	17.73	100.00
21-50	1.07	3.89	7.37	72.92	14.75	100.00
51-100	2.57	6.25	6.62	69.49	15.07	100.00
101-200	2.29	4.58	6.11	71.76	15.27	100.00
201-400	0.	13.64	0.	68.18	18.18	100.00
400+	0.	0.	10.91	80.00	9.09	100.00
TOTAL	1.25	5.11	7.43	69.30	16.91	100.00

REACTIONS TO TRIAL PATWAS STATEMENTS
CATEGORIZED BY
DIFFERENT TRIAL PATWAS LISTENING
(STRONGLY AGREE = FAVORABLE)
-PERCENTAGES-

NUMBER OF TIMES	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
0-5	1.54	3.80	9.02	70.23	15.42	100.00
6-10	0.83	4.99	5.82	72.99	15.37	100.00
11-20	1.25	6.16	7.23	68.57	16.79	100.00
21-40	0.80	4.68	7.76	68.86	17.91	100.00
40+	1.81	5.64	7.11	66.82	18.62	100.00
TOTAL	1.25	5.11	7.43	69.30	16.91	100.00

JOINT REACTIONS OF ALL RESPONDENTS
-PERCENTAGES-

TOO MUCH INFORMATION IS PROVIDED

NOT ENOUGH INFORMATION IS PROVIDED	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	57.41	20.37	9.26	1.85	11.11	100.00
DISAGREE	16.75	70.33	3.35	9.09	0.48	100.00
UNCERTAIN	25.00	54.17	16.67	2.78	1.39	100.00
AGREE	30.00	58.57	5.71	5.71	0.	100.00
STRONGLY AGREE	50.00	37.50	0.	0.	12.50	100.00
TOTAL	26.39	58.35	6.78	6.30	2.18	100.00

JOINT REACTIONS OF ALL RESPONDENTS
-PERCENTAGES-

THE MESSAGE IS TOO LONG

THE MESSAGE IS TOO SHORT	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	63.89	5.56	8.33	8.33	13.89	100.00
DISAGREE	2.21	78.68	6.25	12.50	0.37	100.00
UNCERTAIN	4.84	38.71	54.84	0.	1.61	100.00
AGREE	11.11	81.48	3.70	3.70	0.	100.00
STRONGLY AGREE	50.00	25.00	12.50	0.	12.50	100.00
TOTAL	9.63	65.19	13.83	9.38	1.98	100.00

JOINT REACTIONS OF ALL RESPONDENTS
-PERCENTAGES-

THE SPEAKER TALKED TOO SLOWLY

THE SPEAKER TALKED TOO FAST	STRONGLY DISAGREE	DISAGREE	UNCERTAIN	AGREE	STRONGLY AGREE	TOTAL
STRONGLY DISAGREE	91.67	4.17	0.	4.17	0.	100.00
DISAGREE	3.13	92.36	2.43	2.08	0	100.00
UNCERTAIN	8.89	31.11	57.78	2.22	0.	100.00
AGREE	10.87	76.09	4.35	8.70	0.	100.00
STRONGLY AGREE	100.00	0.	0.	0.	0	100.00
TOTAL	11.89	76.70	8.50	2.91	0.	100.00