EFFECTIVENESS OF PREDICTIVE COMPUTER PROGRAMS IN THE DESIGN OF NOISE BARRIERS — A BEFORE AND AFTER APPROACH —

Part II-A - Final Report

Ъy

J. K. Haviland Faculty Research Scientist

and

D. F. Noble Research Scientist

(The opinions, findings, and conclusions expressed in this report are those of the authors and not necessarily those of the sponsoring agencies.)

Virginia Highway & Transportation Research Council (A Cooperative Organization Sponsored Jointly by the Virginia Department of Highways & Transportation and the University of Virginia)

Charlottesville, Virginia

June 1981 VHTRC 81-R54

ENVIRONMENTAL RESEARCH ADVISORY COMMITTEE

E.	т.	ROBB, Chairman, Asst. Environmental Quality Engr., VDH&T
R.	E.	BLASER, Univ. Distinguished Professor, VPI & SU
L.	Ε.	BRETT, JR. District Engineer, VDH&T
Α.	R.	CLINE, District Environmental Coordinator, VDH&T
R.	V.	FIELDING, Materials Engineer, VDH&T
R.	L.	HUNDLEY, Environmental Quality Engineer, VDH&T
в.	N.	LORD, Research Environmental Engineer, FHWA
D.	D.	MCGEEHAN, Highway Research Scientist, VH&TRC
TOT	M ST	TEPHENS, Assoc. Prof. of Civil Engineering, VPI & SU
W.	Ρ.	TUCKER, Right-of-Way Engineer, VDH&T
R.	G.	WARNER, Assistant Construction Engineer, VDH&T
R.	Β.	WELTON, Environmental Coordinator, FHWA
D.	С.	WYANT, Highway Research Scientist, VH&TRC
J.	E.	YEATTS, Asst. Location & Design Engineer, VDH&T

ABSTRACT

The early work of the Virginia Department of Highways and Transportation on highway traffic noise was focused on a model and a computer program for predicting the noise levels likely to be generated by traffic on proposed highways. The computer program was also used to design barriers to shield neighborhoods from such noise. Because of the cost of noise barriers and the millions of dollars worth of barriers being planned, there was a need to evaluate the efficacy of the predictive computer programs used to design the barriers.

For the evaluation, noise measurements were taken before and after construction of an earth berm and plywood wall alongside I-495 in Northern Virginia.

The effect of the barrier was taken as the difference between the drop-off in noise level from the roadside to the location under study, as measured before and after construction of the barrier. The measured effect, obtained in this manner, was compared to the effect predicted by hand calculator using the current FHWA model.

In a straightforward comparison, all but a few of the measured effects were less than the predicted effects and less than half of them were within 3 dB of the predicted values. However, when the effects of the time of day and human activity within the neighborhood were taken into account, 65% of the noise values obtained during periods of low human activity were within 3 dB of the predicted values. Much of the discrepancy can be attributed to local noise, not accounted for in the prediction, thus it is thought that the computer program can be effectively used in designing noise barriers.

By monitoring the neighborhood activity it was determined that while noise such as that from jet planes and lawn mowers sometimes overrode the traffic noise from I-495, the latter clearly dominated the noise environment of the neighborhood.

Direct correlations made between variations in L_{10} levels and truck traffic and between L_{50} and L_{90} levels and automobile traffic seem to support the generalization that the L_{10} levels are controlled by trucks and the L90 levels are controlled by automobiles.

EFFECTIVENESS OF PREDICTIVE COMPUTER PROGRAMS IN THE DESIGN OF NOISE BARRIERS — A BEFORE AND AFTER APPROACH —

Part II-A - Final Report

by

J. K. Haviland Faculty Research Scientist

and

D. F. Noble Research Scientist

This is the second and final report on a before and after study of the effect of barriers on neighborhood noise. The first report, Part I, described the data acquisition system.⁽¹⁾ This report, Part II-A, contains the descriptive and analytical narrative. Part II-B is a supplement and contains the measured data, principally presented as hourly summaries but also as shorter summaries coinciding with those hours during which traffic was counted.

PURPOSE

As stated in the working plan for this study,⁽²⁾ the primary purpose was to evaluate the capacity of the MICNOISE 5 computer program⁽³⁾ for predicting the effects of barriers and thus allowing for effective designs. However, the highway traffic noise models and the MICNOISE 5 computer programs in use when the study was initiated in 1975 have been replaced by the FHWA model, described in FHWA reports RD-78-139 and RD-78-138.^(4,5) Therefore, the FHWA model was adopted for making the predictions that were used in the analysis section of this report.

While the principal concern of this study was the effect of the barrier on the noise environment of the community and the design capability of the highway traffic noise model, the reflection of noise off the barrier to the opposite side of the highway warranted consideration. Thus as an auxiliary study, a series of noise measurements were taken opposite the barrier construction site before and after the construction of the barrier so that the intensity of the reflected noise could be determined.

Also, the Bridge Division of the Virginia Department of Highways and Transportation requested that the Research Council evaluate the effectiveness of an ARMCO noise wall attached to the parapets of a bridge crossed by the barrier. While much of the field work for this evaluation was done in conjunction with the present study, the evaluation was planned and financed separately and will be reported on separately. (6)

PLANNING

Site Selection

The following criteria were used in the selection of the site.

- The major traffic noise should come from I-495 and the volume of traffic in the neighborhood should be low.
- 2. Construction practices should not affect the traffic parameters.
- 3. Erection of the barriers, etc., should not be started prior to the taking of the before measurements.
- There should be no highway construction in the vicinity during the taking of the before measurements.
- 5. The schedule should be such that the before and after measurements can be made within one season.
- 6. There should be an electricity supply for the measurement apparatus.
- 7. There should be adequate above-ground utilities for attachment of the microphone cables.
- 8. The neighborhood should be typical in that there should be no unusual features that might lead to aberrant results.

A survey of possible sites was conducted, and the site selected met many of the criteria. However, partly because of unexpected variations in the highway construction schedule, the following inconsistencies resulted.

- (a) When noise measurements were taken in 1976 traffic was restricted to two lanes on each side of I-495, and it sometimes slowed to crawl speed due to restrictions several miles away. In fact, had the initial measurements been delayed by a year, they would have been much more satisfactory, except that the earth berms would have been in place.
- (b) Three years elapsed between the before and after measurements.
- (c) Several trains passed each day on a nearby railroad.

The location of the site, is given in Figure 1. It is bounded by I-495, the Southern Railroad and Heming Avenue. The only vehicular access is at the intersection of Heming Avenue and Long Pine Drive. Thus through traffic is minimal, consisting principally of school buses, trash trucks, etc. Most of the traffic within the neighborhood consists of personal cars.

Measurement Locations

The neighborhood chosen for study is about 636 m (2087 ft.) square, or approximately $4.04686 \times 10^5 \text{ m}^2$ (100 acres). It includes a prominent ridge that runs parallel to I-495 and bisects the community. Measurements were taken at 16 locations encompassing the residential area between I-495 and Boulder (see Figure 2). A pragmatic consideration in choosing a measurement location was that it had to be next to a utility pole. While a cherry picker could be used to install the transmission cable prior to the time measurements would be taken, it could not be used to move the outdoor microphone to the various locations during the taking of measurements because of the expense and time required for this task. Thus, to accomplish this task, someone climbed the utility pole and connected the microphone to the fitting on the transmission system.

In addition to the 16 locations south of I-495, 4 locations were chosen north of the highway along Joplin Street close to its intersection with Leesville Blvd. Measurements were made at these locations before and after construction of the barrier in the Long Pine Drive neighborhood, to determine the impact of noise reflected off the barrier and across the interstate roadway.



Figure 1. North Springfield site and surrounding area.



Figure 2. Stations at which microphones were located, numbered A, 1 to 16, 25 to 28. Numbers in parentheses are planned measurement periods in hours.

Measurement Periods

Based on discussions with personnel from the U. S. Bureau of Standards, it was thought that to be able to characterize the noise environment of a community the measurement periods would have to be relatively long, and that they should be made on a 24-hour-a-day basis. Time and money were limiting factors in this study, as they are in most endeavors. The compromise that was reached allowed one work week, starting at 8:00 a.m. Monday and ending at 4:00 p.m. Friday (24 hours per day), to travel to and from the job and to take measurements at eight of the locations. The eight measurement periods were organized into four 2-hour, two 12-hour, and two 24-hour spans. One hour between measurement periods was allotted for moving the outdoor microphone from one location to another. The various microphone locations were assigned measurement periods such that there would be no concentration of time span within any group of neighboring locations (see Figure 2).

Instrumentation

The data acquisition system designed for this study collects data in digital form.⁽¹⁾ Microphone signals (often referred to as being in AC form) are root mean square (RMS) averaged and weighted (i.e., converted to DC form), converted to digital form, and finally stored on magnetic tape in a form that could be input into a large computer; in this case, the CYBER computer at the University of Virginia. In contrast, noise data often are collected on tape in analog form; however, a great advantage of the digital form is that many hours of digital data can be collected on one tape, whereas analog recordings are severely limited in time duration. A disadvantage of the DC format, whether on analog or digital tape, is that all frequency information is lost. To rectify this, provision has been made to obtain limited time AC recordings on analog tape. Overall, the advantages of working with the digital DC format are as follows:

- 1. It is possible to record for long periods of time on one tape.
- 2. The data can be fed directly into a computer for analysis, thus minimizing the labor required and the potential for human error.
- 3. The circuits for digital systems can be designed by most electronics engineers using inexpensive integrated circuits. As low cost microprocessors become available, inexpensive general purpose equipment should become ever more available, making digital techniques more and more attractive.

A general layout for the digital data system is shown in Figure 3 and a key to this figure is given in Table 1. The system is housed in a Chevrolet step-van. The van has selfcontained air conditioning and a 120-volt AC gasoline-powered generating system.

The equipment for the system includes the master control unit incorporating the analog/digital (A/D) converter, the digital tape recorder, two B & K Type 2204 sound level meters, associated amplifiers, and power supplies. A NAGRA tape recorder is available if analog recordings should be required; and, by plugging headphones into the jack on the NAGRA, the output from the two sound level meters can be monitored.

Two microphone units are available. One is a self-contained, portable, outdoor unit that can be connected to the van through several thousand feet of shielded, twisted-pair transmission cable. The other is a standard weatherproofed microphone connected by standard B & K microphone cable and powered from the van. Thus, while the first microphone can be used to conduct surveys within a community, the second can be located close to a busy highway, and can be used to monitor the primary noise source for the area and thereby estimate traffic flows.



Figure 3. Layout of digital data acquisition system.

36.0

Table 1

List of Equipment and Key to Figure 3

A. Waterproofed Microphone, contains

Homemade box B & K 4149 12.7-mm(1/2-in.) microphone UA 0381 windscreen UA 0393 rain cover (with electrostatic calibration actuator) UA 0308 dehumidifier UA 0196 extension (gooseneck) ZC 0007 input stage

- B. 12-V supply and switch for calibration of waterproofed microphone
- C. 500-Hz calibrator source
- D. UA 0029 30-m (100-ft.) cable
- E. B & K 4921 outdoor microphone unit
- F. Box with 12-V battery
- G. Belden 8760 cable, 18 AWG foil sheathed, twisted-pair, with waterproof connectors
- H. B & K 2204 sound level meters (2)
- I. 4.5-V power supply for meters
- J. NAGRA tape recorder
- K. 12-V power supply
- L. Digital tape recorder and A/D converter
- M. 5:1 amplifiers (2)
- N. 200-ohm active balance load
- P. 6-m (20-ft.) pole
- S. ± 15-V power supply.
- V. Van (noise monitoring vehicle)

PROCEDURES

Preliminary Contacts

Various preliminary contacts had to be made before the collection of data could begin. Permission to string the shielded, twisted-pair cable from telephone lines in the area had to be obtained from the Chesapeake and Potomac Telephone Company and the Potamac Electric and Power Company, because both firms use the utility poles carrying the line. They were concerned about -

- 1. the size of the cable,
- 2. the current that would be passed through it,
- 3. the adequacy of its shield,
- 4. the manner of installation, and
- 5. the length of time the cable would be in place.

Because the outdoor microphone would be in the neighborhood 24 hours a day, the Virginia Department of Highways and Transportation's local office was requested to supply three men to guard against vandalism. The Department's Culpeper District Office was requested to supply four men to take an 8-hour traffic count. The local police were made aware of the presence of the workmen in the neighborhood.

Scheduling

The planned scheduling of events for a measurement effort was as follows:

- lst week Make laboratory check of equipment and string transmission cable for eight locations
- 2nd week Take measurements
- 3rd week Take cable down and string for other eight locations

4th week - Take measurements

Stringing Cable

The first time the shielded, twisted-pair cable was installed, weatherproof connectors were provided at the eight measurement locations, and, obviously, at the beginning and end of each 305-m (1,000 ft.) spool of cable. The weather was cool and breezy, thus a battery-powered soldering iron did not provide enough power to quickly make the necessary connections, and before the job was finished the battery pack needed recharging. Consequently, a portable, gasoline-powered generator was employed to provide electric power for a standard line voltage soldering iron, which did a much better job.

With more than a thousand meters of cable cut into various lengths and strung along Long Pine Drive and up side streets, it was anticipated that the various segments of cable could get out of order if some method were not devised to identify them. An attempt was made to code the ends of each segment of cable with different color tapes, but the coding technique proved to be more cumbersome and confusing then helpful. Therefore, one person was assigned to supervise the task of stringing and removing the cable. It turned out that the segments could be keptin order more easily by taking them down in reverse order. When the same cables were strung for the second measurement period, new connectors were provided at the eight additional locations.

DATA ACQUISITION

Summary of Recordings Made

A summary of all of the recordings made at the twenty measurement locations is given in Table 2. It was originally intended that all neighborhood recordings were to be of either 2-, 12- or 24-hour duration; however, nature intervened to shorten them on several occasions. Also, the recordings for the reflection studies were held to one-half hour at first and later were reduced to onequarter hour.

A considerable number of tape reels were used. They could not always be filled because it would have been impractical, for example, to replace a tape during a 24-hour measurement period. In addition to the digital tape reels, a few analog reels were recorded on the NAGRA recorder. As noted in Table 2, NAGRA recordings made for the reflection study in 1977 were played back into the digital tape recorder in the laboratory following a failure of the digital system in the field.

Table 2

Date	Time	Locat Ch. l	cions Ch. 2	Length, hours	Description
1976					
5-17 5-17 5-19 5-19 5-20 5-20 5-20 5-20 5-24 5-24 5-24 5-24 5-25 6-07 6-08 6-09 6-09 6-10 6-10	1510 1820 0745 1500 2220 0520 2310 1415 1700 1730 1500 1800 0700 1000 1000 1400 1500 1800	A A A A A A A A A A A A A A A A A A	1 2 3 6 6 6 8 5 4 7 9 10 11 2 3 14 16 15	2:00 12:00 2:00 5:43 6:59 16:40 11:50 2:01 24:00 1:59 2:00 12:00 2:00	Long Pine study before road barrier installed
<u>1977</u> 10-06 10-06 10-06 10-06 10-06	1045 1225 1315 1400 1400	A A A A	2 5 2 6 2 7 2 8 2 8	:11ª :15ª :11ª :14ª :14	Reflection study before road barrier installed
1979					
5-07 5-07 5-08 5-08 5-09	1500 1800 0700 1000 1400	A A A A A	9 10 11 12 14	2:00 12:00 2:00 24:00 24:00	Long Pine study with road and bridge barriers

Summary of Recordings

^aFrom NAGRA recordings.

^bThree hours deleted from listing.

Table 2 (continued)

Date	Time	Locat Ch. l	Ch. 2	Length, hours	Description
5-10 5-11 5-21 5-21 5-22 5-22 5-22 5-23 5-23 5-23 5-23 5-24 5-24 5-24	1500 1800 0700 1500 1800 0730 1000 1900 1100 1400 0230 1500 1800	A A A A A A A A A A A A A A	16 15 13 2 3 4 5 6 6 7 8	2:00 12:00 2:00 1:55 10:52 1:30 8:00 15:00 2:00 11:26 11:30 1:59 10:43	
5-31 5-31 5-31 5-31	1230 1300 1330 1415	A A A	26 27 28 25	:15 :15 :15 :15	Reflection study with road and bridge barriers

Setup and Calibration

The data acquisition system was set up and calibrated as described in reference 1. Both sound level meters were set for A-weighting, slow. Because the electrostatic actuator on the near (roadside) microphone was out of order at one time, it had to be replaced by a hand-held calibrator for some of the measurements.

During the digital analysis of the tapes, a statistical distribution is made of every recording by the ANOISE computer program, including those obtained during calibration. The 1% and 99% values should be equal for a perfect calibration signal, but several factors can cause them not to be. For example, the passage of some noisy trucks during calibration, could force the 1%, or even the 5% values, to be high. A more serious cause is an accidental cutoff of the calibration signal. To illustrate, two typical calibration plots are shown in Figures 4 and 5. Figure 4 shows relatively clean calibration signals obtained on both channels, although the upturn at the lower percentiles suggests the passage of noisy trucks during the recording. It is evident that the level of L_{50} is the true calibration level.





 $\langle \cdot \rangle$

NOISE LEVELS MEASURED

The values of the noise levels measured according to the schedule in Table 2 are tabulated in Part II-B of this report. Values for Lgg to L1, Leq, NPL, TNI, and two forms of the coefficient of variance, LEPS and LSIG, are shown for both one-hour or fractional-hour intervals and for nighttime, daytime, or 24-hour periods.

Summary of Definitions

Definitions of the above terms are given in reference 1 and are briefly summarized below.

- L_{CAL} = Calibration level L_{CAL} , the dBA 'value' of the calibration tone;
- X_{e,c} = The digital level of the calibration tone exceeded e% (normally 50%) of the time;
- x_E = The digital level of the data exceeded E% of the time;

x_{RMS} = The RMS digital level expressed in linear form.

Then,

 $L_{E} = 20 \log_{10} X_{E}/X_{e,c} + L_{CAL}$ $L_{eq} = 20 \log_{10} X_{RMS}/X_{e,c} + L_{CAL}$ $NPL = L_{eq} + 2.56 L_{SIG}$ = Noise pollution level;

 $L_{SIG} = (L_{10} - L_{50})/1.28;$

Coefficient of variance, based on the assumption that L_E is derived from a normal distribution, expressed in decibels;

$$TNI = 4 (L_{10} - L_{90}) + L_{90} - 30$$

= Transportation noise index.

The coefficient of variance $L_{_{\rm FPS}}$ was given by

 L_{FPS} = 8.686 ɛbefore 1979, whereas the exact formula

$$L_{EPS} = 20 \ Log_{10} \ (1 + \epsilon),$$

was used for the results obtained in 1979.

In both formulae, the variance in the RMS pressure, ε , is given by

$$\varepsilon = \sqrt{\frac{1}{N(X_{R_{MS}})^4}} \xrightarrow{N} \sum_{i=1}^{V} \frac{\chi}{i} = 1$$

where for x_i , i = 1...N are N successive readings of x, the linear digital level.

A summary plot of the one-hour levels of L_{10} , L_{eq} , L_{50} , and Lg0, taken from Part II-B of this report, is shown in Figure 6. It will be noted that the numerical levels remain in the order indicated above, and that they all show similar overall behavior. This leads one to believe that either $\rm L_{eq}$ or a statistical level such as $\rm L_{10}$ or $\rm L_{50}$ can serve as a meaningful noise descriptor. By contrast, the values of NPL and TNI, also given in Part II-B, exhibit considerable fluctuation, both being strongly dependent on the difference between L10 and L50 or L90. NPL and TNI were designed as quantitative measures of annoyance. As such, their response to rather minor changes in the difference between L10 and L₅₀ or L₉₀ is significant, which accounts for the considerable fluctuation in their values, while the most commonly used descriptor, L10, remains relatively steady. Because NPL and TNI are somewhat obscure, they do not appear to be meaningful noise descriptors for routine noise studies. In addition, no data were collected relative to annoyance such that their effectiveness as measures of annoyance could be evaluated. Values for LSIG and LEPS tend to follow each other, except that in some cases LEPS appears exaggerated at the higher values. This may be because the approximate formula was used before 1979.







Figure 6. Summary plot of one-hour averages. Upper four curves are L10, Leq, L50, and Lg0 for roadside microphone (Location A), while lower four curves are L10, Leq, L50, and L90 for locations 1 through 16 as marked below dates. Broken lines are estimates that replace abnormal values.

.









One-Hour Averages

Returning to Figure 6, it can be seen that for the microphone near the road, there is a very strong daily pattern of noise levels. The curves are asymmetric with a very rapid buildup from the low to the high noise levels early in the day, after which the high levels are maintained (with minor fluctuations) throughout the principal business hours of the day. The high levels are followed by a gradual decline in noise levels from the early evening hours to the early morning hours when the low for the next day is reached. It will be noted that the levels at the 16 points in the neighborhood, although lower, tend to follow the same trends as those of the microphone near the road. However, there is a slight peak on the $\rm L_{10}$ and $\rm L_{eq}$ curves between 1900 hours and 2100 hours. This increase was not paralleled by an increase in the I-495 noise level, but seems to be caused by an increase in neighborhood activity, and considerable jet traffic out of National Airport.

Abnormal Values .

Cases where abnormal values for L_{10} and L_{eq} have been corrected are noted under the applicable hourly summary in Part II-B, Table 2. In most cases a note on the abnormal conditions was made on the Field Data Sheet at the time. The abnormalities fall into four categories, as noted below.

<u>Category I.</u> Apparent malfunction of equipment, noted only in 1976 data, and signalled by levels up to 10 dB high and by spasmodic flashing of the light emitting diode (LED) display lamps. This occurred only on channel #1. When viewed on an oscilloscope, the input signal to the A/D converter was eventually found to have a 1 MHz bit pattern. The sound level meters did not read abnormally. The problem was apparently corrected by removing ground loop connections.

Category II. Identifiable interference from jackhammers, lawn mowers, etc.

<u>Category III</u>. Radio interference in 1976 data. This always occurred on channel #2, which acted as a signal detector; i.e., the radio transmission could be heard through the headphones. On several evenings, a Spanish language station was picked up, coming in and fading over roughly one-minute periods. On other occasions, CB radio transmissions were picked up. Interference from the police band radio used as a communication link had already been noted, but radio silence was always observed during measurements. The problem was corrected by improved grounding.

Category IV. Miscellaneous identifiable malfunctions.

The readiness with which abnormalities can be identified with notes on the Field Data Sheet demonstrates the value of making such notes at the time.

Long Period Averages

In addition to the 1-hour averages plotted in Figure 6, 24-hour averages, 15-hour daytime averages, and 9-hour nighttime averages are tabulated in Table 3. These averages include the effects of the abnormalities noted above. The 24-hour average is significant in that it is the basis of the L_{24} level now used by the Environmental Protection Agency (EPA), while the day and night averages can be combined to give the L_{dn} average, which also is used by the Environmental Protection Agency.

Table 3

Channel	Location	Date	Start Time of Recording	Period Covered	Time Duration	L_{10}	L _{e1}	L ₅₀	L90
1	A.	5/17	1820	2200-0621	8:21N+	76.4	72.8	67.0	56.2
2	2					55.2	51.8	48.5	40.8
1	А	5/19	2200	2220-0519	6;59N	73.4	70.5	64.5	57.1
2	6					57.5	53.4	52.0	45.3
1	А	5/20	0520	0700-2200	15:000+	77.3	74.4	72.1	67.5
2	6					63.3	59.9	57.9	54.2
Ĩ.	А	5/20	2310	2310-0700	7:50N	74 . 5	70.8	64.7	54.8
2	8					61.2	58.2	51.4	42.2
1	А	5724	1700	1700-1700	24:00	79,2	25.9	72.9	63.0
2	ų					56.7	53.6	47.9	42.7
1	A	67 7	1800	2200-0600	8: Ú0N	80.3	74.3	65.0	55.51
2	1.0					52.9	50.8j	45.8	41.9
1	ί.	6/8	1000	1000-1000	24:00	76.4	74.1	70.3	64.5
2	12					57.9	55.3	53,5	48.2
L	А	6/ 9	1400	1400-1400	24:00	76.6	73.9	70.0	61.5
7	<u>1</u> 4					56,2	54.5	51.1	45.9Č;
1	A	6/10	1800	2200-0600	9:00N	78.1	73.4	64.5	55.9
2	15					51.5	49.0	41.8	36.6

Long-Period Averages, 1976

*N refers to nighttime, 2200-0700 hrs., D to daytime, 9700-2200 hrs.

Traffic Count

3653

The planning for the acquisition of traffic data was left rather flexible in the working plan, where it was stated that traffic data would be obtained at the same time that noise measurements were taken,or that the available daily averages would be obtained from the Traffic and Safety Division. Obviously, the more traffic data, the better.

However, taking noise measurements required so much manpower that it would have been virtually impossible to take aroundthe-clock traffic counts manually. Nevertheless, the 8-hour traffic count for the initial measurement period was made as planned. Unfortunately, problems were experienced with the equipment, and while the count provided good data, the data did not coincide with any viable noise data. Because of the unavailability of manpower, all subsequent 8-hour traffic counts were made using a timelapse photographic technique. This method requires only one person in the field — a cameraman. The count was made from the film back in the laboratory when manpower was available. While it alleviated the problem of manpower, the time-lapse photographic technique had the following drawbacks.

- 1. The greatest of these was that to include all lanes of the roadway in the field of view, the camera had to be located on a bridge over I-495 approximately 1 km from the site. Inasmuch as there was no exit between the site and the camera location, this was thought to be an acceptable condition.
- There did not seem to be any benefit in checking the speed of vehicles at the camera location. Therefore, speeds were based on radar readings taken during 15-minute manual traffic counts that will be briefly discussed later.
- 3. At times during the early morning and late afternoon, the angle of the sun and/or reflections from the glass on vehicles caused an overexposure of the film that made counting difficult, though not impossible.
- 4. Definition on the film was not good, especially at the edges of the field of view, and this made it difficult to differentiate between 2- and 3-axle dump trucks.

It was first thought that after correlating the noise meagurements with the traffic data it would be possible to predict the traffic data from the noise data. When it was realized that this couldn't be done because of the variety of traffic mixes that could create the same noise levels, it was decided that 15minute traffic counts for each hour not covered by the 8-hour counts would provide data helpful in estimating traffic for those times when counts were not made.

Table 4 shows the results of traffic counts made with a camera mounted on the Braddock Road bridge, Table 5 gives the counts taken manually at the I-495 bridge over Heming Avenue, and Table 6 gives the counts taken opposite Joplin Street for the reflection study. Vehicles are classified as: autos, medium trucks, and heavy trucks. The medium-truck category included all nontrailer trucks from a step-van up, but did not include pickup trucks; all three-axle trucks were designated heavy trucks.

The traffic data served two purposes. First, they supplied the traffic input to the predictive program, and second, they were considered in the examination of the fluctuations in the roadside and neighborhood noise levels.

Inasmuch as it was not feasible to get 24-hour traffic counts, the traffic data for a 24-hour period was generalized as presented in Table 7. These data were used to make all the predictions needed ⁻ for 1979. While it might appear that this procedure would give inaccurate predictions, there was considerable latitude for error because the error would have to be as great as one-half or double the figure used to effect as much as a 3 dB difference in the predicted noise level.

To facilitate the correlation of the traffic data with the noise data two curves were presented in Figure 7, one was typical of automobile traffic, the other of truck traffic. It is obvious that the distribution of automobile traffic is bimodal, peaking in the morning between 0700 and 0800 hours and again in the afternoon between 1600 and 1700 hours. In 1979, the peak traffic was as much as 4,000 automobiles per hour greater than the midday traffic. Total truck traffic was essentially unimodal; it leveled off at its high point between 0800 and 0900 hours, maintained close to that level for 8 hours, and then dropped off between 1500 and 1600 hours. The low point was between 2600 and 0400 hours. Thus it was high for 8 hours, low for 8 hours, and either increasing or decreasing for portions of the other 8 hours of the day.

Table 4

Traffic Count From Films Made from Braddock Road Bridge Over I-495

June 9, 1976				
Time	Lane	Autos	Medium <u>Trucks</u>	Heavy Trucks
1101-1135	EB	1269	119	55
1135-1208	EB MB	956 1079	117 118	46 60 60
1208-1242	EB	1093	95 121	61
1242 - 1315	EB LID	1062	103	96 58
1315-1349	E B LID	1002	98 100	62 51
1349-1424	W B E B	1183	96 100	5 2 5 3
1424 - 1458	W B E B W B	1361	93	52 56
1458-1531	W B E B	1577	125	64 57
1531 - 1605	EB	1901	129	49 55
1605-1641	E B	2385 - 2130	90 104	55 39
1641 - 1715	EB	1987	90 71	31 36
1715-1746	EB	1810	46 80	26 48
1746-1830	EB.	2202 1419	68 79	6 U 6 2
1830 - 1904	W B E B W B	2056 1374 1818	5 2 6 5 3 7	52 51 24
May 8, 1979				
0800-0830	EB	2039	185	60
0830-0900	WB EB	1900	100 149	38 74 22
0900-0930	EB MB	1534 1623	143	83
0930-1000	E B M B	1413 1318 1238	135 221 126	7 0 7 7 7 2

Table 4 (continued)

Time	Lane	Autos	Medium Trucks	Heavy Trucks
1000-1030	EB	1360	164	52
1030-1100	W B E B	979 1202	199	75
1100-1130	W B	1138	147	55
	E B	1295	182	84
1130-1200	W B	1037	91	63
	E B	1169	145	89
1200-1230	WB	1143	97	74
	EB	1244	192	75
1230-1300	WB	1165	104	8 3
	EB	1340	124	7 5
1300-1330	WB	1124	105	76
	EB	1191	152	95
1330-1400	W B	1150	138	67
	E B	1251	145	94
1400-1430	W B E B	1104 1419	127	74 86
1430-1500	W B E B	1161 1368	113 172	73
1500-1530	W B	1978	123	75
	E B	1729	193	87
1530 - 1600	W B E B	2245 2296	95 161	73
1600-1630	W B	2866	103	79
	E B	2343	167	59
1630-1700	W B	2369	114	59
	E B	2200	115	71
1700-1730	W B	2478	92	69
	E B	2038	83	41
1730-1800	WB	2346	59	73
	EB	2003	56	51
	WB	2068	43	81
<u>May 22, 1979</u>				
0800-0830	EB	2506	107	87
0830-0900	W B E B W D	2100 1794 1991	114 90	20
0900-0930	w B E B M D	1666 1666	118	93 93 77
0930-1000	w B E B W B	1363 1086	97 104 96	113 118 114

 \bigcirc

Table 4 (continued)

Time	Lane	Autos	Medium Trucks	Heavy Trucks
1000-1030	EB	1058	78	74
1030-1100		1263	108	87 81 110
1100-1130	EB WB	1216	101	80
1130-1200	EB WB	1157	108	128
1200-1230	E B WB	1193 1268	100	123
1230-1300	EB	1206	103 76	113
1300-1330	EB WB	1171	119 79	123
1330-1400	EB WB	1105	95 80	119 98
1400-1430	EB WB	1127 1305	116	116 102
1430-1500	E B W B	1363 1246	90 94	124 82
1500-1530	EB WB	1769 1477	9 2 8 5	127 85
1530-1600	E B W B	1947 1932	101 75	137 69
1600-1630	E B W B	2301 2633	107 89	141 89
1630-1700	E B W B	2326 2264	129 61	73 76
1700-1730	EB WB	2451 2541	98 53	7 2 6 5
1730-1800	E B W B	2493 2108	104 67	5 7 5 7

Table 5

15-Minute Traffic Counts at I-495 Bridge over Heming Avenue for Hours Not Covered by 8-Hour Counts

$\begin{array}{c c c c c c c c c c c c c c c c c c c $						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Date <u>+ Time</u>	Lane	Autos	Medium Trucks	Heavy Trucks	Speed
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5/8/79	EB	611	42	60	53
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1117-1132	WB	557	45	40	47
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5/8/79	EB	6.2.8	57	36	51
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1417-1432	WB	656	45	49	52
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5/10/79	FR	81	1	17	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0115 - 0130	WB	61	1		53
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5/10/79	FB	ЦQ	<u> </u>		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0215-0220	UB UB	+ J 5 0	2	, ר ר	55
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5213 = 0230	W D E D	30	2	±0	5.5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5/IU//9	LD	32	С Г	ט ר ר	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0315-0330	WD	42		12	55
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5/IU//9	LB	34	.3	13	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0415 - 0430	WB	22	1		55
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5/10//9	FR	125		19	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0515 - 0530	WB		4	24	54
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5/10//9	EB	934	23	25	58
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0615-0630	WB	745	29	41	54
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5/10/79	EB	1361	14	48	58
5/10/79EB 1020 12 28 57 $1815-1830$ WB 1027 26 26 52 $5/10/79$ EB 923 8 20 57 $1915-1930$ WB 693 10 15 53 $5/10/79$ EB 556 1 12 57 $2015-2030$ WB 524 7 16 53 $5/10/79$ EB 628 8 16 57 $2115-2130$ WB 552 7 10 53 $5/10/79$ EB 469 3 15 $$ $2215-2230$ WB 473 2 17 51 $5/10/79$ EB 300 4 23 $$ $2315-2330$ WB 314 2 16 55 $5/11/79$ EB 148 4 20 $$ $0023-0038$ WB 167 0 12 54 $5/22/79$ EB 485 12 24 57 $2015-2030$ WB 651 11 15 54 $5/22/79$ EB 485 12 24 57 $2015-2030$ WB 457 4 20 54 $5/22/79$ EB 441 6 17 57 $2115-2130$ WB 351 4 24 53	0715-0730	WB	1064	55	39	51
1815-1830WB 1027 26 26 52 $5/10/79$ EB 923 8 20 57 $1915-1930$ WB 693 10 15 53 $5/10/79$ EB 556 1 12 57 $2015-2030$ WB 524 7 16 53 $5/10/79$ EB 626 8 16 57 $2115-2130$ WB 552 7 10 53 $5/10/79$ EB 469 3 15 $2215-2230$ WB 473 2 17 51 $5/10/79$ EB 300 4 23 $2315-2330$ WB 314 2 16 55 $5/11/79$ EB 148 4 20 $0023-0038$ WB 167 0 12 54 $5/22/79$ EB 485 12 24 57 $2015-2030$ WB 457 4 20 54 $5/22/79$ EB 441 6 17 57 $2115-2130$ WB 457 4 20 54 $5/22/79$ EB 442 6 23 53 $5/22/79$ EB 442 6 23 53 $5/22/79$ EB 397 1 21 $$ $2215-2230$ WB 351 4 24 53	5/10/79	ΞB	1020	12	28	57
5/10/79EB 923 8 20 57 $1915-1930$ WB 693 10 15 53 $5/10/79$ EB 556 1 12 57 $2015-2030$ WB 524 7 16 53 $5/10/79$ EB 626 8 16 57 $2115-2130$ WB 552 7 10 53 $5/10/79$ EB 469 3 15 $$ $2215-2230$ WB 473 2 17 51 $5/10/79$ EB 300 4 23 $$ $2315-2330$ WB 314 2 16 55 $5/11/79$ EB 148 4 20 $$ $0023-0038$ WB 167 0 12 54 $5/22/79$ EB 485 12 24 57 $2015-2030$ WB 457 4 20 54 $5/22/79$ EB 441 6 17 57 $2115-2130$ WB 462 6 23 53 $5/22/79$ EB 397 1 21 $$ $2215-2230$ WB 351 4 24 53	1815-1830	WB	1027	26	26	52
1915-1930WB 693 10 15 53 $5/10/79$ EB 556 1 12 57 $2015-2030$ WB 524 7 16 53 $5/10/79$ EB 628 8 16 57 $2115-2130$ WB 352 7 10 53 $5/10/79$ EB 469 3 15 $2215-2230$ WB 473 2 17 51 $5/10/79$ EB 300 4 23 $2315-2330$ WB 314 2 16 55 $5/11/79$ EB 148 4 20 $0c23-0038$ WB 167 0 12 54 $5/22/79$ EB 650 12 20 58 $1915-1930$ WB 651 11 15 54 $5/22/79$ EB 485 12 24 57 $2015-2030$ WB 457 4 20 54 $5/22/79$ EB 462 6 23 53 $5/22/79$ EB 462 6 23 53 $5/22/79$ EB 462 6 23 53 $5/22/79$ EB 397 1 21 $$ $2215-2230$ WB 351 4 24 53	5/10/79	ΕB	923	8	20	57
5/10/79EB 556 112 57 $2015-2030$ WB 524 716 53 $5/10/79$ EB 628 816 57 $2115-2130$ WB 552 710 53 $5/10/79$ EB 469 315 $2215-2230$ WB 473 217 51 $5/10/79$ EB 300 4 23 $2315-2330$ WB 314 216 55 $5/11/79$ EB1484 20 $0023-0038$ WB167012 54 $5/22/79$ EB 650 12 20 53 $1915-1930$ WB 651 11 15 54 $5/22/79$ EB 485 12 24 57 $2015-2030$ WB 457 4 20 54 $5/22/79$ EB 441 6 17 57 $2115-2130$ WB 462 6 23 53 $5/22/79$ EB 397 1 21 $$ $2215-2230$ WB 351 4 24 53	1915-1930	WB	693	10	15	53
2015-2030WB 524 716 53 $5/10/79$ EB 628 816 57 $2115-2130$ WB 552 710 53 $5/10/79$ EB 469 3 15 $2215-2230$ WB 473 2 17 51 $5/10/79$ EB 300 4 23 $2315-2330$ WB 314 216 55 $5/11/79$ EB 148 4 20 $0023-0038$ WB 167 0 12 54 $5/22/79$ EB 650 12 20 58 $1915-1930$ WB 651 11 15 54 $5/22/79$ EB 485 12 24 57 $2015-2030$ WB 457 4 20 54 $5/22/79$ EB 441 6 17 57 $2115-2130$ WB 462 6 23 53 $5/22/79$ EB 397 1 21 $$ $2215-2230$ WB 351 4 24 53	5/10/79	ΕB	556	1	12	57
5/10/79EB 628 8 16 57 $2115-2130$ WB 552 7 10 53 $5/10/79$ EB 469 3 15 $2215-2230$ WB 473 2 17 51 $5/10/79$ EB 300 4 23 $2315-2330$ WB 314 2 16 55 $5/11/79$ EB 148 4 20 $0023-0038$ WB 167 0 12 54 $5/22/79$ EB 650 12 20 58 $1915-1930$ WB 651 11 15 54 $5/22/79$ EB 485 12 24 57 $2015-2030$ WB 457 4 20 54 $5/22/79$ EB 441 6 17 57 $2115-2130$ WB 462 6 23 53 $5/22/79$ EB 397 1 21 $$ $2215-2230$ WB 351 4 24 53	2015 - 2030	WB	524	7	16	53
2115-2130WB 552 710 53 $5/10/79$ EB 469 3 15 $2215-2230$ WB 473 2 17 51 $5/10/79$ EB 300 4 23 $2315-2330$ WB 314 2 16 55 $5/11/79$ EB 148 4 20 $0023-0038$ WB 167 0 12 54 $5/22/79$ EB 650 12 20 58 $1915-1930$ WB 651 11 15 54 $5/22/79$ EB 485 12 24 57 $2015-2030$ WB 457 4 20 54 $5/22/79$ EB 441 6 17 57 $2115-2130$ WB 462 6 23 53 $5/22/79$ EB 397 1 21 $$ $2215-2230$ WB 351 4 24 53	5/10/79	ΕB	628	8	16	57
5/10/79EB 469 315 $2215-2230$ WB 473 21751 $5/10/79$ EB 300 423 $2315-2330$ WB 314 21655 $5/11/79$ EB148420 $0023-0038$ WB16701254 $5/22/79$ EB650122053 $1915-1930$ WB651111554 $5/22/79$ EB485122457 $2015-2030$ WB45742054 $5/22/79$ EB44161757 $2115-2130$ WB46262353 $5/22/79$ EB397121 $2215-2230$ WB35142453	2115-2130	WB	552	7	10	53
2215-2230WB 473 2 17 51 $5/10/79$ EB 300 4 23 $$ $2315-2330$ WB 314 2 16 55 $5/11/79$ EB 148 4 20 $$ $0023-0038$ WB 167 0 12 54 $5/22/79$ EB 650 12 20 58 $1915-1930$ WB 651 11 15 54 $5/22/79$ EB 485 12 24 57 $2015-2030$ WB 457 4 20 54 $5/22/79$ EB 441 6 17 57 $2115-2130$ WB 462 6 23 53 $5/22/79$ EB 397 1 21 $$ $2215-2230$ WB 351 4 24 53	5/10/79	ΕB	. 469	3	15	
5/10/79EB 300 4 23 $$ $2315-2330$ WB 314 2 16 55 $5/11/79$ EB 148 4 20 $$ $0023-0038$ WB 167 0 12 54 $5/22/79$ EB 650 12 20 58 $1915-1930$ WB 651 11 15 54 $5/22/79$ EB 485 12 24 57 $2015-2030$ WB 457 4 20 54 $5/22/79$ EB 441 6 17 57 $2115-2130$ WB 462 6 23 53 $5/22/79$ EB 397 1 21 $$ $2215-2230$ WB 351 4 24 53	2215 - 2230	WB	473	2	17	51
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5/10/79	EB	300	4	23	
5/11/79EB148420 $0023-0038$ WB16701254 $5/22/79$ EB6501220581915-1930WB651111554 $5/22/79$ EB4851224572015-2030WB45742054 $5/22/79$ EB441617572115-2130WB46262353 $5/22/79$ EB3971212215-2230WB35142453	2315 - 2330	WB	314	2	16	55
0023-0038WB167012545/22/79EB6501220581915-1930WB6511115545/22/79EB4851224572015-2030WB457420545/22/79EB441617572115-2130WB462623535/22/79EB3971212215-2230WB35142453	5/11/79	EB	148	4	20	
5/22/79EB6501220581915-1930WB6511115545/22/79EB4851224572015-2030WB457420545/22/79EB441617572115-2130WB462623535/22/79EB3971212215-2230WB35142453	0023-0038	WВ	167	0	12	5 L
1915-1930WB6511115545/22/79EB4851224572015-2030WB457420545/22/79EB441617572115-2130WB462623535/22/79EB3971212215-2230WB35142453	5/22/79	ΕB	650	12	2 0	5 8
5/22/79 EB 485 12 24 57 2015-2030 WB 457 4 20 54 5/22/79 EB 441 6 17 57 2115-2130 WB 462 6 23 53 5/22/79 EB 397 1 21 2215-2230 WB 351 4 24 53	1915-1930	WB	651	11	15	54
2015-2030 WB 457 4 20 54 5/22/79 EB 441 6 17 57 2115-2130 WB 462 6 23 53 5/22/79 EB 397 1 21 2215-2230 WB 351 4 24 53	5/22/79	ЕB	485	12	24	57
5/22/79EB441617572115-2130WB462623535/22/79EB3971212215-2230WB35142453	2015-2030	WB	457	4	20	54
2115-2130 WB 462 6 23 53 5/22/79 EB 397 1 21 2215-2230 WB 351 4 24 53	5/22/79	ΕB	441	6	17	57
5/22/79 EB 397 1 21 2215-2230 WB 351 4 24 53	2115-2130	WE	462	6	23	53
2215-2230 WB 351 4 24 53	5/22/79	E B	397	Ĩ	21	
	2215-2230	W B	351	+ 4	24	53

No. Vehicles Passing

÷,

Table 5 (continued)

			No. Vehicl	es Passing	
Date + Time	Lane	Autos	Medium Trucks	Heavy Trucks	Speed
5/22/79	EB	260	0	8	
2315-2330	WB	267	3	28	53
5/24/79	EB	29	2	13	
0315-0330	WB	46	0	10	56
5/24/79	EB	24	6	17	
0415-0430	WB	46	0	10	51
5/24/79	ΕB	118	8	25	
0515 - 0530	WB	103	l	23	51
5/24/79	ΕB	893	1	28	5 7
0615 - 0630	WB	675	22	37	53
5/24/79	ΕB	1214	10	54	52
0715-0730	WB	995	36	28	52

Table 6

Short Traffic Counts on I-495 for the Reflection Measurements

Date + Time	Lane	Autos	Medium Trucks	Heavy Trucks	Speed
10/6/77	EB	675		40	5 2
1045 - 1100	WB	549	39	49	52
10/6/77	ΕB	661		57	54
1225-1240	WB	594	5 0	3 9	5 5
10/6/77	ΕB	663		36	53
1315-1330	WB	570	47	55	57
10/6/77	ΕB	718		36	5.3
1400-1415	WB	671	42	5 3	56
5/31/79	ΞB	620	5 2	56	
1230-1245	WB	584	3 2	59	
5/31/79	ΕB	640	5 0	39	
1300-1315	WB	590	3 3	48	
5/31/79	ΕB	700	5 5	5 2	
1330 - 1345	WB	610	45	40	
5/31/79	EB	564	23	100	
1415-1430	WB	648	48	36	

No. Vehicles Passing

.

Table 7

Hrs.	E	astbound		W	lestbound	
		Medium	Heavy		Medium	Heavy
	Autos	Trucks	Trucks	Autos	Trucks	Trucks
0	590	16	80	670	0	48
1	320	4	68	240	4	44
2	200	0	28	200	8	52
3	120	14	38	170	2	42
4	130	18	60	140	2	56
5	490	38	8.8	440	10	94
6	3650	48	106	2840	102	156
7	5150	48	204	4120	182	134
8	4120	266	160	3580	237	164
9	2980	296	187	2500	227	185
10	2440	275	141	2010	227	168
11	2410	268	190	2080	182	175
12	2490	260	193	2370	179	189
13	2360	256	216	2300	212	181
14	2640	276	208	2840	215	166
15	3870	274	215	4260	179	153
16	4590	259	172	4870	178	139
17	4520	170	110	4530	111	138
18	4080	48	112	4110	104	104
19	3150	40	8 C	2690	42	60
20	2080	26	72	1960	22	72
21	2190	28	5.6	2030	26	66
22	1730	8	7.2	1650	12	82
23	1120	8	6.2	1160	10	8.8

1979 Hourly Traffic Used in Analyses Speed = 55 mph

2.8





Figure 7. Typical daily fluctuation in traffic density.

-29

Weather

Admittedly inadequate records were kept on the weather. However, notes made in 1976 indicate warm dry weather with light breezes. A storm on May 18 put the equipment out of action, so that no readings were taken. Light rain was also noted on the evening of May 25.

Notes made in 1979 indicated that on May 7 the weather was sunny with a light breeze, and that it was not until 0515 hours on May 11 that a drizzle, which did not interfere with taking noise measurements, was experienced. May 21 started a wet week with a drizzle from 1500 to 1700 hours. That evening was very humid. A light rain started at 2320 hours on May 22; by 0200 of May 23 it was heavy and the switch on the far microphone's automatic calibrator shorted. Rain continued intermittently for the rest of the workweek.

ANALYSIS

Calculations

Programs

All calculations were made on a Texas Instruments (T.I.) 59 programmable calculator. Two programs were used. One, used for barrier attenuation, was taken from reference 7 and modified by converting the input dimensions to feet. The other was based on a program used by the Virginia Department of Highways and Transportation, with modifications for convenient use. The noise model is similar to that given in reference 7, except that calculations for finite roadways have been deleted.

Basic Geometry

The basic geometrical parameters used in all calculations are given in Table 8. This lists measurements obtained by the Aerial Survey Section of the Virginia Department of Highways and Transportation from aerial photographs. For each measurement location, a perpendicular line is drawn to the center of the median strip on I-495. The station coordinates and road elevations of the points are listed, together with perpendicular distances and elevations of the measurement point and of the barrier. It should be noted that measurement points A'76 and A'79 refer to the microphone locations alongside the road in 1976 and 1979, that points 1-16 refer to locations within the survey area, and that points 25-28 refer to points located to the north of I-495, which were used to check the levels of reflected noise. No overlapping photographs were available to provide steroscopic viewing of point 9; thus no data are presented. Table 8

Measurements from Sections Perpendicular to Road Dimensions in Ft. (x ,3048 to convert to meters)

, hocat:	ion	Barr	rier	Intercept	on Median
ance ^k	Elevation	Distance*	Elevation	Station	Elevatior
0 0	293.4	120	289	553 + 05	277.1
+2	280.6	120	299	545 + 30	279.6
00	265.4	1.20	291	548 + 70	277.9
40	267.8	0.6	290	554 + 50	276.3
78	278.2	120	291	548 + 78	277.9
28	260.9	06	290	558 + 10	275.1
322	267.9	120	289	551 + 73	277.0
335	250.6	06	288	563 + 88	273.4
data					
325	286.2	0.6	288	563 + 39	273.6
285	305.5	06	290	559 + 21	274.5
959	303.l	06	290	556 + 37	275.9
640	272.0	06	290	559 + 13	275.2
660	276.8	1.20	289	552 + 64	277.3
088	265.3	7.0	288	566 + 57	272.4
680	253.0	06	288	564 + 78	273.1
95	283.5	90	283.5	551 + 25	276.8
L 8 7	281.6	06	283.7	551 + 30	277.2
273	287.5	06	283.7	551 + 62	284.5
373	28.9.7	90	283.7	552 + 05	276.2
87	291.2	1 1 1	1	565 + 25	272.7
06	293.0	06	288.0	563 + 90	273.4

31

3663

* - From median
** - See Figure 9 also

Barrier Attenuation

Barrier attenuations were calculated as though the barrier parameters on any perpendicular line were constant from -90° to $+90^{\circ}$. The assumption of infinite barriers, while not strictly correct, is believed to be acceptable for the purpose of this study. The parameters used in the barrier calculations, together with calculated attenuations, are presented in Table 9. This table includes values for both near and far lanes (i.e., eastbound and westbound for points 1-16), as well as source heights of 0 m, 0.7 m, and 2.44 m corresponding to automobiles, medium trucks, and heavy trucks, respectively. A fourth source height of 4.11 m is included as corresponding to the 13.5 ft. heavy truck source height used by the Virginia Department of Highways and Transportation in designing barriers.

Predicted Noise Levels

Predicted neighborhood noise levels (L_{eq}) are shown in Figure 8, where they are compared with the hour-by-hour 1979 measured values. The predicted values are based on the assumed traffic data of Table 7 and on the barrier attenuation values of Table 9. In performing the calculations with a T.I. 59 programmable calculator, two infinite roadway groups (the four eastbound lanes and the four westbound lanes) were assumed, together with infinite barriers. The 4.11 m (13.5 ft.) source height was used for heavy trucks. All traffic was assumed to be moving at 55 mph. No corrections or allowances were used for rows of houses or trees, because such adjustments are rather subjective and could introduce personal bias.

Predicted Barrier Effects

Predicted barrier effects are shown in Table 10. These were obtained by first calculating predicted noise levels without barriers, then with barriers (the values are plotted in Figure 8). The difference of these two is shown in the table as the predicted effect of the barrier. For comparison, measured barrier effects were calculated by taking the difference of the dropoffs in noise levels between the I-495 and neighborhood locations for the before (1976) and after (1979) noise measurements.
Table 9

Barrier Dimensions and Calculated Attenuation Values

(13.51)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- 0,-
ane 2.44 8.01) (ı
B, Far L 0.7 (2.31) (- 2 . 0
0 (10)		- 5.2
4,11 (13,51)		- 6.5
. Lane 2.44 (8.01)		i
<u>AB, Near</u> 0.7 (2.3 ¹)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 5.6
5=0* (3 ⁺)	10000000000000000000000000000000000000	- 6.8
Observer Neight	$\begin{array}{c} 6.5 \\ 1.8 \\ -2.3 \\ -2.3 \\ -1.1 \\ 1.8 \\ -1.1 \\ 1.8 \\ -1.1 \\ -1.2 \\ -1.1 \\ -1.1 \\ -1.2 \\ -1.1 \\$	5.6 (18.5)
ars m (ft.) Barrier Height	3.6 (11.9) 5.9 (19.1) 5.9 (19.1) 5.9 (19.1) 3.5 (19.1) 3.5 (19.1) 4.5 (19.1)	()
ance Paramelo Barrier to Observer	756 (840) 68 (223) 238 (780) 73 (780) 73 (1450) 73 (358) 73 (233) 75 (246) 75 (246) 75 (246) 75 (1195) 76 (1195) 168 (550) 168 (550) 168 (550) 168 (591) 319 (1018) 169 (591) 30 (97) 30 (97)	36 (733)
leight & Dist to Road Far Lane	 47.2 (155) 47.2 (155) 38.1 (125) 47.2 (155) 47.2 (155) 47.2 (155) 38.1 (125) 	38.1 (125)
l Ranzier Near Lane	25.9 (85) 25.9 (85) 25.9 (85) 25.9 (85) 25.9 (85) 25.9 (85) 16.8 (55) 16.8 (16.8 (55)
E.	していいいのうので、「「」」」」」」」」」」」」」」」」」」」」」」」」」」」」」」」」」」」	2.8

*5 = Source height, m (ft.)





Figure 8. Predicted (light line) and measured (heavy line) hourly summaries of the neighborhood L_{eq}.

Table 10

Predicted vs. Measured Values for $\rm L_{eq}$ and $\rm \Delta B$ (Barrier insertion loss) by hour

Loct.	Hr.	L _{eq} (1979	values)	Δ Barrier (from 1	1976 & 1979 values)
		Measured	Predicted	Measured	Predicted
1	15	55.3	56.2	-4.3	- 6.2
	16	53.5	55.8	-5.6	- 6.4
2	0	51.3	53.4	-	- 9.2
	1	54.0	52.5	-	- 8.8
	2	52.8	50.8	-	- 8.8
	3	50.9	50.9	-	- 8.8
	10	51.2	52.5	-	- 8.7
	TO TO			+1.2	- 10.3
	19 20	56 8	55.4 51 9		-10.4
	20	57 6	54.0 54.6	- <u>⊥</u> •4 +7 5	-10.1
	22	57 5	54.0 54.7	+0 H	- 9 7
	23	52.4	54.2	• • • •	— 9 Ц
3	- 7	57.3	55.1	-3.7	- 7.3
	8	57.8	55.0	-1.7	- 7.5
4	0	46.9	46.5	-3.9	- 6.1
	1	43.7	46.0	-4.7	- 5.9
	2	· ••	43.8	-	- 5.7
	3	-	44.2	-	- 5.7
	4	45.4	45.8	+0.8	- 5.5
	5	50.4	47.9	-4.9	- 5.9
	5 7	49.8	50.3	-9.2	- 7.2
	- / 0	55.2	51.6 57.5	-3.5	- 7.3
	0		51.5	-6.4	- /.5
	9 10	52.7	51.0		- 7.2
	11	53 5	51.0	-0.4	- 7.0
	12	51.1	51.7	-4 O	- 6 9
	13	50.6	51.9	-6.3	- 6-9
	14	55.8	51.8	+0.6	- 7.1
	15	55.2	51.9	-2.4	- 7.3
	16	58.5	51.5	-2.1	- 7.7
	17	54.4	50.6	-	- 7.8
	18	-	49.9	- .*	- 7.6
	19	55.7	48.1	-6.9	- 7.7
	20	55.9	47.7	-2.4	- 7.2
	21	55.4	47.5	-0.2	- 7.4
	22	53.8 53.8	4/./	+1.3	- 6.8
	ζJ	రచ. వ	4/.4	-4.4	- 6.4

Table 10 (continued)

Loct. Hr. L_{eq} (1979 values) Δ Barrier (from 1976 & 1979 values)

		Measured	Predicted	Measured	Predicted	
5	11	58.3	59.4	_	- 6.8	
	12	57.1	59.6	-	- 6.7	
6	0	54.6	54.0	_	- 8,9	
	1	54.1	53.1	-	- 8.5	
	2	52.5	51.2	- 2.7	- 8.7	
	3	49.9	51.4	- 6.6	- 8.6	
	4	53.3	53.0	- 6.0	- 8.5	
	5	57.1	55.1	- 5.6	- 8.8	
	6	58.9	57.5	- 4.9	-10.0	
	7	61.3	59.1	- 4.2	- 9,9	
	8	60.8	59.0	- 5.6	-10.3	
	9	59.1	59.2	- 7.1	- 9.9	
	10	59.5	58.4	- 2.1	-10.0	
	11	-	59.0	- 4.0	- 9.8	,
	12	59.3	59.1	- 4.6	- 9.7	
	13	59.4	59.3	- 7.0	- 9.7	
	14	58.3	59.3	-	- 9.8	
	15	59.1	59.5	- 8.6	-10.0	
	16	59.8	59.0	- 8.7	-10.3	
	17	59.4	58.0	- 7.5	-10.5	
	18	59.8	57.4	- 5.7	-10.3	
	19	59.6	55.6	- 4 4	-10.4	
	20	59.6	55.1	- 4.1	- 9.9	
	21	62.8	54.9	-	-10.1	
	22	59.1	55.0	- 5.6	- 9.6	
	23	58.5	54.5	- 0.7	- 9.4	
7	15	59.6	60.2	-	- 7.6	
	16	61.2	59.8	_	- 7.9	
8	0	54.2	53.1	+ 0.8	- 9.7	
	1	51.3	52.2	-	- 9.3	
	2	50.0	50.2	- 8.9	- 9.6	
	3	49.3	50,4	- 7.4	- 9.5	
	4	50.2	52.1	- 7.2	- 9.3	
	18	61.0	56.5		-11.1	
	19	60.2	54.8	-	-11.1	
	20	58.5	54.2	-	-10.7	
	21	58.1	54.0	-	-10.9	
	22	59.4	54.1	-	-10.4	
	23	58.0	53.5	-	-10.2	
10	0	40.6	47.6	- 5.3	- 6.U	
	l	44.3	46.8	- 3.7	- 5.6	
	2	48.6	45.3	+ 4.6	- 5.6	
	3	46.4	45.3	+ 2.3	- 5.6	

Table 10 (continued)

△ Barrier (from 1976 & 1979 values)

Predicted

-5.5 -5.8 -7.5 -7.6 -7.1 -7.2 -6.7 -6.3 -7.1 -7.4 -5.8 -5.4 -5.4 -5.4 -5.3 -5.6 -6.7 -6.8 -7.1 **-**6.8 -6.8 -6.6 -6.6 **-**6.5 -6.7 -6.9 -7.2 7.3 -7.1 7.2

-6.9 -6.4

-6.1 -7.8

-8.1 -5.8 -5.5

-5.5 -5.5 -5.4 -5.6

Loct.	Hr.	L _{eq} (19	79 values)	∆ Barrier (from
		Measured	Predicted	Measured
10	4 5 18 19 20 21	46.0 51.9 55.3 53.3 53.0 50.8	46.8 48.9 51.0 49.2 48.8 48.6	- 4.3 - 6.3 - 1.8 + 2.4 - 2.8 - 0.8
11 12	22 23 7 8 0 1 2 3 4 5	49.7 50.8 56.3 55.3 44.8 45.7 40.7 39.8 43.5 53.5	48.8 48.4 52.9 52.9 49.9 49.1 47.6 47.6 49.1 51.2	- 1.8 + 4.0 - 4.7 - 1.6 -10.4 - 9.5 -17.1 -14.4 - 9.8 - 3.8
13	6 7 8 9 1 1 2 3 4 5 6 7 8 9 1 1 2 3 4 5	52.8 54.3 55.4 54.3 55.1 53.0 54.4 55.4 55.6 55.0 - - - - - - - - - - - - -	53.8 55.1 55.3 54.6 55.2 51.2 51.2 56.8 52.2 52.2 56.8 56.7 52.2 56.8 56.7 52.2 59.0 52.2 59.0 52.2 59.0 52.2 59.0 52.2 50.8 56.7 52.2 50.5 52.2 50.5 52.2 50.5 52.2 50.5 52.2 50.5 52.2 50.5 52.2 50.5 52.5 52.5 53.7 52.5 53.7 52.5 53.7	$ \begin{array}{c} - 8.6 \\ - 9.4 \\ - 5.2 \\ - 5.6 \\ - 7.9 \\ - 3.7 \\ - 0.4 \\ - 0.7 \\ - 3.5 \\ - 5.7 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ -$

Table 10 (continued)

		eq ·=·								
		Measured	Predicted	Measured	Predicted					
14	6	52.1	56.3	- 5.6	-6.7					
	7	52.0	57.7	- 9.5	-6 .7					
	8	52.7	57.7	- 6.2	- 6.9					
	9	58.4	57.8	+ 0.6	-6.6					
	10	51.5	57.1	- 6.0	- 6.7					
	11	53.1	57.6	- 0.6	- 6.5					
	12	57.1	57.7	- 0.2	- 6.5					
	13	61.3	57.9	+ 1.4	-6.4	,				
	14	54.6	57.8	- 3.9	-6.6					
	15	53.1	58.1	- 6.3	-6.8					
	16	53.5	57.7	- 7.3	-7.0					
	17	53.8	56.8	- 3.4	-7.1					
	18	51.8	56.1	-13.9	-7.0					
	19	52.4	54.3	- 5.7	-7.1					
	20	51.4	53.8	- 2.4	-6.7					
	21	54.0	53.6	- 2.4	-6.8					
	22	51.4	53.7	- 3.6	-6.4					
	23	47.8	53.2	- 6.9	-6.l					
15	0	46.3	47.9	+ 1.7	-6.9.					
	1	44.0	47.2	+ 0.2	- 6.5					
	2	45.4	45.7	+ 0.3	~ 6.4					
	3	39.6	45.7	- 6.3	- 6.5					
	4	39.8	47.5	- 9.9	-7.3					
	5	47.8	49.3	- 8.3	-6.7					
	18	53.9	51.2	- 2.4	-8.5					
	19	53.4	49.4	- 1.8	-8.7					
	20	55.6	49.1	+ 0.8	-8.1					
	21	52.7	48.8	- 0.8	-8.3					
	22	53.0	49.1	- 3.9	-7.7					
1.0	23	46.8	48.8	- 5.1	-7.3					
Τo	15	62.5	55.9	-10.3	-8.8					
	Тρ	59.2	55.4	- b.1	-9.1					

The L_{eq} values tabulated in Part II-B of this report were used for this calculation as follows:

$$\Delta B = \{L_{eq}(X79) - L_{eq}(A79)\} - \{L_{eq}(X76) - L_{eq}(A76)\},\$$

where X76 and X79 refer to the measured L_{eq} values in the neighborhood at point X in 1976 and 1979, respectively and A76 and A79 are the corresponding values at point A, at the side of I-495. Because the distance from the roadway to the roadside microphone was greater in 1979 than in 1976, the above equation should be modified to allow for the different values of D_E. Roadway sections are shown in Figure 9, and, using the geometric parameters shown here, D_E values of 13.6 m (44.6 ft.) and 16.3 m (53.3 ft.) were calculated for 1976 and 1979, respectively. These indicate a reduction of 0.8 dB in the calculated value of Δ B net. However, if the faster traffic favors the inner lanes, this correction should be reduced. Thus, it was decided that no correction should be applied. In principle, this method of comparison should be more accurate than the direct comparison of noise levels, because the 1976 and 1979 measured values include the effects of the same intervening vegetation and houses.

Comparison of Results

Predicted and Measured Noise Levels

A comparison of the predicted and measured neighborhood noise levels shown in Figure 8 reveals that both sets of values follow the same overall daily trends, but that the measured values show greater diurnal fluctuations than do the predicted values. An explanation for this could be that the predicted daily high is lower than the measured high because the prediction did not allow for neighborhood-generated noise, which logically would be expected to peak at the time outside human activity peaks, as indicated by I-495 traffic, and thus make a significant contribution to the neighborhood noise level. In contrast, the predicted daily low could be higher than the measured low if it did not include an allowance for intervening vegetation or housing and because human activity at such times would be low, thus contributing less to the overall level.



Predicted and Measured Barrier Attenuation

Predicted and measured barrier effects were not determined for every measurement site or for every hour during which measurements were taken. The calculation of predictions is dependent on the availability of geometric and traffic data. Thus, no predictions were made for measurement site 9 because of the lack of geometric data. Based on the description, presented earlier, of how the measured barrier effects were determined, it is obvious that good before and after data must be available for the specific times for which the measured effects are to be calculated. When ratios or percentages are referred to in the analyses of these data, it should be understood that these ratios and percentages are relative only to those instances when there were sufficient data to allow comparisons.

3672

The comparison of the predicted and measured barrier attenuations was made because it was considered that such a comparison would give a measure of the predictive model's usefulness in the design of noise barriers. A straightforward comparison showed that only 32.0% of the predicted attenuations came within 2 dB of the measured attenuations and only 47.2% came within 3 dB limits. While these results would indicate an imperfection in either the predictive model or the measurement procedure, an examination of comparisons that were within 3 dB in relation to the time of day and the site at which the measurements were taken, Figure 10, shows that both of these factors significantly affect the measurements. A cursory look at Figure 10 shows that the fewest comparisons were within 3 dB between 1800 and 2300 hours.

To better evaluate the effect of time of day and measurement site on the noise levels, the ratio of comparisons within 3 dB to the number of comparisons was plotted against time as in Figure 11 and against site number as in Figure 12. If a ratio of less than 0.5 is taken as poor in Figure 11, then the greatest proportion of the comparisons of predicted and measured barrier attenuations that are beyond the 3 dB limits lie between 1800 and 2300 hours. This observation confirms that observation made earlier based on a cursory examination of Figure 10. Ratios of less than 0.5 also occur between 0200 and 0300 hours, 1100 and 1200 hours, and 1400 and 1500 hours.

If the ratios of more than 0.5 are designated as fair to good, the greatest proportion of comparisons of predicted and measured barrier attenuations within 3 dB lie between 0300 hours and 1100 hours. There also are high proportions between 0100 hours and 0200 hours and 1500 and 1700 hours.



Figure 10. Site vs. time of day for comparisons of predicted and measured barrier effects used in analysis. Comparisons are shaded, those within 3 dB are dotted.



Figure 11. Ratio of comparisons within 3 dB to number of possible comparisons during given time of day.



Figure 12. Ratio of comparisons within 3 dB to number of possible comparisons for given measurement sites. Sites for which no comparison could be made are crossed out, sites 2 and 3 have a ratio of 0.0.

Staying with a ratio of 0.5 as dividing adequate and inadequate performance, Figure 12 shows that for measurement sites 1, 4, 8, 12, 14, and 16 the barrier's performance was adequate, while for sites 2, 3, 6, 10, and 15 it would be considered inadequate.

An explanation for the disparity in the data can be hypothesized, though not enough hard data were acquired to substantiate the hypothesis. Under the hypothesis, the time of day has a more important influence than the measurement site, because it is closely related to patterns of human activity and thus the creation of noise within the neighborhood.

In the 106 comparisons, in which the measured performance of the barrier is poorer than predicted, the difference could be accounted for by adding the neighborhood-generated noise to the measured noise. If certain times of the day can be identified as periods of high or low human activity within the neighborhood, then some of the disparity may be explained.

The study site is a typical suburban bedroom community with many children ranging from babies to teenagers. The principal source of neighborhood noise at the time of year that measurements were taken is transportation-related; i.e., it is generated by automobiles, school buses, trash trucks, delivery trucks, service type pickups and vans, trains, and airplanes. Obviously, the time of the least human activity within the neighborhood would be those hours when most people are asleep, conservatively estimated here as those from 0100 to 0700 hours. Not quite as obvious, but logical, the time of the most human activity within the neighborhood would be those hours when most people have the greatest amount of discretionary time, likely from 1700 or 1800 hours to 2300 hours. These two blocks of time are when the comparisons could be characterized as being within the 3 dB limits and outside those limits, respectively. Between 1500 and 1700 hours, the predicted and measured barrier attenuations compared quite favorably. An explanation of how the middle of the afternoon can be a time of low human activity is not as obvious as were the other explanations. However, it seems logical that the trash pickup and major delivery and service activities would be slow at this time, that jet traffic into and out of National Airport would not be at its highest, that the activity of many families would center around the home in preparation for the evening meal, and that most of the daily commuters would not yet have returned home.

A glance at Figure 2 shows that the neighborhood is virtually circumscribed by Long Pine Drive and that it contains several cross

streets. Traffic leaving the neighborhood usually follows the shortest route to the point on Long Pine Drive closest to the intersection of the Drive and Heming Avenue. The lightest traveled section of the Drive is that part most distant from its intersection with Heming Avenue. Compared to Long Pine Drive, the cross streets are lightly traveled. Thus the measurement sites located away from Long Pine Drive (1, 2, 10, 11, 12, 13, and 14) and site 4, which was furthest from Heming Avenue, were designated as being isolated. The measurement sites located on or close to Long Pine Drive (3,5,6,7,8,15, and 16) were called exposed. Within 1,500 feet of the intersection where Long Pine Drive completes its loop, the loop is heavily traveled.

Referring back to the comments concerning Figure 12, it is recalled that the measurements taken at sites 1, 4, 8, 12, 14, and 16 suggest that the barrier is performing adequately. Yet, sites 8 and 16 are considered to be exposed. A check of Figure 8 shows that measurements were taken at both of those sites at times of relatively light human activity, 0200 to 0400 hours and 1500 to 1600 hours. Of the sites for which measurements indicate inadequate performance, 2 and 10 are considered to be isolated. Figure 10 shows that the only measurements that could be compared with predicted values at site 2 were made during the high activity time of day, while the measurements made at site 10 were outside the 3-dB limits for the high activity period, but compared favorably (ratio of .67) for the low activity period.

Though the foregoing observations did not fully substantiate the hypothesis stated earlier, it is considered that they do demonstrate the importance of the time of day as a guide or regulator of human activity which, in turn, is the source of much of the more pervasive noise that society experiences.

Considering the many variables involved in comparisons of predicted and measured barrier attenuations, it is thought that when 65% of the comparisons that could be made for the low human activity time period were within 3 dB, the noise model used in designing the noise barriers performed well.

Roadway and Neighborhood Noise Measurements

The comparison of the hourly summaries for the I-495 and neighborhood measurements presented in Figure 6 shows that there is much greater and more frequent variation in the neighborhood data. This difference is not unexpected because the heavy volume of traffic carried by an urban-suburban interstate highway must travel between prescribed minimum and maximum speeds and is

permitted to stop only in emergencies, while within the neighborhood noise levels range from the quiet of a foggy, drizzly night to that of a trash truck revved up to compact garbage and encompass a host of sounds such as those from chain saws and lawn mowers, school buses, diesel trains, jet planes, slammed car doors, barking dogs, playing children, and singing birds.

Effect of Traffic on Noise Levels

There is an apparent correlation between traffic data and the statistical descriptors for the noise data. These two types of data cannot be compared directly because the former are in linear form while the latter are in logarithmic form. An earlier comparison was made between the total traffic and the L_{10} levels and no correlation was observed. Later, when plotting the traffic data, the truck and automobile counts were plotted separately. Repeated doubling of the minimum counts for both trucks and automobiles to reach a figure close to the maximum count for each type vehicle showed that the number of vehicles doubled three times for trucks and five times for automobiles. With an increase of 3 dB per doubling, the noise levels should increase by 9 and 15 dB, respectively. The data for the roadside measurements were used for this correlation because they were not apt to be affected by sources of noise other than the traffic on I-495. The measured diurnal fluctuation for L_{10} was 8 to 9 dB, and this range compares very favorably with the anticipated diurnal fluctuation of 9 dB that would be caused by the observed change in the volume of total truck traffic. In Figure 6 the range of the L50 and, particularly, that of the L90 plots are approximately 14 to 15 dB, which correlates quite well with the diurnal fluctuation of 15 dB that would be caused by the observed change in automobile traffic.

Midday Traffic and Noise Measurements

It is expected that when a microphone is placed only 16.3 m (53.2 ft.) horizontally from the middle of the near traffic lane that significant changes in the traffic density will be reflected in the noise levels measured. A comparison of the traffic data in linear form from Figure 7, and the hourly summaries of the noise data in logarithmic form from Figure 6, shows that with a halving of the peak automobile traffic during the midday period there is no decrease in either L_{10} or L_{eq} . No more than a 3-dB change is anticipated for a halving or doubling of traffic but this virtual absence of any change in the noise level demands an explanation. In Figure 7 the automobile and truck traffic were plotted separately. As mentioned earlier, the truck traffic was essentially unimodal, reaching a peak level during midmorning and maintaining it

for 8-hours through the midafternoon period, and it is suggested that this minimal fluctuation in the peak truck traffic accounts for the steadiness of the L_{10} and L_{eq} levels through the midday lunch period.

A similar correlation can be made between the L_{50} and L_{90} levels and traffic data. The L_{50} and L_{90} levels peaked during the morning and late afternoon rush hours, and at noontime were 3 to 5 dB lower than the peak values. This lower value corresponds to the decrease in automobile traffic.

With the information that is available, very little can be done to explain the correlations. Nevertheless, these correlations seem to support the often heard generalization that "the L_{10} level is controlled by trucks", and also suggest that the limits of L_{90} are controlled by automobiles.

The Variability in Traffic Density and Mix and L10 minus L90

It is generally accepted that noise is more annoying when it is intermittent and of widely varying levels than when it is continuous and of a relatively steady level. NPL and TNI, which are descriptors of annoyance, were discussed earlier. While no basis for a detailed discussion of annoyance was designed into this study, a general statement concerning annoyance seems to be warranted based on the diurnal fluctuations in traffic density and mix and on the variability in the differences between L_{10} and L_{90} for nighttime and daytime measurements.

The data in Table 7 show that an average of 10,000 vehicles per hour (vph) were using I-495 during the early and late peaktraffic periods. The minimum number of vehicles per hour (386) was recorded between 0300 to 0400 hours. When the traffic on I-495 ranged from 5,000 to 10,000 vph during the daytime, the traffic noise appeared to be continuous; and when the traffic decreased to an average of 624 vph, with a range of from 386 to 1,160 vph, the traffic noise appeared to be intermittent. The traffic mix had a larger percentage of trucks from 0100 through 0500 hours than at any other time period throughout the day, averaging over 20% and ranging from 17.7% to 33.5%. Increasing the percentage of trucks, the loudest source of noise on the highway, might tend to make that noise more noticeable.

The difference between L_{10} and L_{90} is a measure of the variability of the noise. The differences between L_{10} and L_{90} , as determined from Figure 6, were as much as 4 to 14 dB greater during the nighttime than during the daytime. Thus the late night noise was more variable than the daytime noise and could possibly have been more annoying. In fact, the values of NPL and TNI listed in Table 2 of Part IIB of this report were often higher between 0100 and 0500 hours than during peak traffic hours.

Character of Neighborhood Noise

The character of a neighborhood's noise environment depends on the neighborhood's natural and cultural setting. This study area is affected by interstate highway, air, and railroad traffic, and by noise created in the neighborhood. The data most likely to provide insight into the character of the neighborhood noise environment are the curves of the hourly summaries. As mentioned earlier, there is a similarity in the shapes of the curves of the hourly summaries of the statistical descriptors plotted with intensity versus time for the I-495 traffic noise and the neighborhood, which suggests that the I-495 traffic noise is the dominant noise in this area. Nevertheless, monitoring the neighborhood noise with earphones showed that the I-495 traffic noise. During the initial measurement period the measurement sites were visited at various times during the day to empirically determine the relationship of the I-495 traffic noise to the neighborhood noise.

Only at site 4, which was farthest from the roadway, and only for one daytime observation did the I-495 traffic noise fail to dominate the neighborhood noise. For that one observation period, the neighborhood noise was dominated by a lawn mower and birds. On many other occasions intrusive noise did periodically drown out the I-495 traffic noise, but such intrusions did not occur often enough to affect the basic shape of the curve. During one observation period from 1312 to 1645 hours at site 4, there was one intrusive noise of short duration on the average of once every 8 minutes.

Reflection to Opposite Side of Road

Some measurements were made at locations 25, 26, 27, and 28 along Joplin Street to determine the possible effects of reflections from the barrier to the opposite side of the interstate roadway. At the time the first measurements were taken, some protection was provided by a berm, but neither of the barriers alongside I-495 had been built.

The results were analyzed in two ways. In the first, the measured L_{eq} values at each of the four locations were compared with the values at location A, and the differences in these values were noted. By obtaining these differences both in 1976, before there was a barrier, and in 1979, after the barrier had been erected, the effects of the barrier could be isolated.

The results of this analysis, which are inconclusive, are shown in Table 11. Although the data indicate a small increase in the noise level at location 25 due to reflections, a net loss is indicated at the other locations, whereas an increase of 1.3 dB or less is indicated by prediction. Evidently, the predicted results are well within the scatter of the experimental values.

In the second analysis, the measurements of L_{eq} made in 1979 were compared with predicted values. Predicted L_{eq} values were based on two cases: (1) assuming no reflection from the barrier and minimal attenuation from the berm; and (2) assuming that the barrier acts as an infinite reflecting plane, so that there are two more mirrored four-lane roadways. In case (2), no attenuation from the berm is assumed, thus making the comparison of the two a "worst case". Traffic levels were taken from Table 6.

Table 11

Measured Reflection Effects

Location	Lea	Difference,	Location	less	pt. A	_Barrier	Reflection
		1976	197	79		Measured	Predicted
25	•	- 3.2	- 1.	. 4		1.8	0.5
26		- 6.8	-11.	6		-4.8	1.2
27		-14.8	-16.	2		-1.4	l.3
2 8		-16.8	-19.	3		-2.5	1.1

Comparisons between these predictions and the measured values are shown in Table 12 for two values of the ground effect coefficient, α . With an α of 0.0 note that the measured value is higher than the predicted value with reflection for the closest location but that they drop below for the remaining locations. With an α of 0.5 the measured values are higher than the predicted values with reflection for all four locations. Note also that the predicted effects of reflection never exceed 3.1 dB. The effect would have been smaller had there been no berm to shield the two real roadways.

The results in Table 12 are inconclusive as to whether reflections can be detected; however, they do tend to confirm the prediction that the reflection effect is small, i.e. less than 3 dB.

Table 12

Location	Distance from	Measured L_{eq}	Predic Without/Wi	cted L _{eq} ith Reflection
	Median, ft.*		$\alpha = 0.0$	$\alpha = 0.5$
2 5	90	79.1	74.5/75.5	72.4/72.9
26	187	69.4	68.6/71.0	64.7/66.4
27	275	64.5	66.4/69.1	61.6/63.7
28	375	62.0	65.0/68.1	59.4/61.2

Evaluation of Reflection Effects

*1 ft. = 0.3048 m.

CONCLUSIONS

- 1. The correspondence of the overall daily trends of the predicted and measured sets of values demonstrates the effectiveness of the predictive model. The disparities between the maximum and minimum levels for the two sets of data illustrate the difficulty of both collecting data on all the variables that affect the predictions and of including enough factors in the model to allow for all the variables in complicated situations.
- 2. The time of day, as it functions as a guide or regulator of human activity, is a very important factor that affects the contribution of the residents to noise levels in the neighborhood, and may also affect the sensitivity of the residents to highway noise. Verification of the latter would require additional study.
- 3. Based on the proportion of comparisons of predicted and measured attenuations that were within 3 dB for the time periods of low human activity, the highway traffic noise prediction model functions adequately.
- 4. The smoothness and similarity of the daily plots of the hourly summaries of the traffic noise generated on the interstate roadway are evidence of the controlled and restricted environment of the interstate roadway. The more variable record for the neighborhood noise is illustrative of the greater freedom for noise-making activities in the neighborhood.
- 5. The correlations between variations in L_{10} levels and truck traffic and between L_{50} and L_{90} levels and automobile traffic seem to support the generalization that the L_{10} level is controlled by trucks, and also suggests that the limits of L_{90} are controlled by automobiles.
- 6. Based on the greater spread of L_{10} and L_{90} during the nighttime as compared to the daytime, it can be stated that the nighttime noise is more variable than the daytime noise.
- 7. By monitoring the neighborhood noise with earphones and visiting the various measurement sites throughout the neighborhood, it was determined that while intrusive noise such as that from jet planes and neighborhood noise such as that from lawn mowers sometimes overrode the

51

traffic noise from I-495, the I-495 traffic noise clearly dominated the noise environment of the neighborhood. Thus, it is recommended that the effect of all noise other than highway noise on the noise environment of a neighborhood be investigated. The sources of noise to be investigated should include jet aircraft, helicopters, other aircraft, railroad trains, lawn mowers, chain saws, automobiles, school buses, trash trucks, birds, and children. The purpose would be to determine if and how far from the highway into the neighborhood one would have to go for noise other than highway noise to be responsible for L10.

8. Inasmuch as the purpose of this study was to evaluate the capacity of computer programs to predict the effect of noise barriers, thus allowing for their effective design, the effort that could be expended to look at the reflective properties of barriers was minimal and should not be expected to supply definitive answers to questions concerning reflection. Nevertheless, while the comparisons of the predicted and measured Leq were inconclusive as to the detection of reflections, they tend to confirm that the reflection effect is small.

RECOMMENDATIONS

- Because 65% of the predicted and measured barrier effects that were compared for periods of low human activity were within 3 dB of each other, it is considered that the computer program does a good job of predicting barrier effects. Thus it is recommended that the computer program continue to be used in the design of noise barriers.
- 2. It is further recommended that when interest is expressed or a question arises as to the effectiveness of an existing barrier, the computer program be used with 0300-to-0600-hour traffic input to predict its effectiveness; and that if measurement of the effect is necessary, it be made during a period of low human activity.
- 3. It appears that the movement of large numbers of vehicles within a limited time imposes restraints on each vehicle that limit the variables under which it can create noise and thereby leads to a uniform noise level. This principle should be utilized by promoting the uninterrupted flow of traffic when a given route is being used as a principal inter-neighborhood thoroughfare.

REFERENCES

 Haviland, J. K., and D. F. Noble, "Effectiveness of Predictive Computer Programs in the Design of Noise Barriers — A Before and After Approach — Part 1. The Data Acquisition System", Virginia Highway and Transportation Research Council, Charlottesville, Virginia, VHTRC 78-R32, February 1978.

- Haviland, J. K., and D. F. Noble, "Working Plan: Effectiveness of Predictive Computer Programs in the Design of Noise Barriers — A Before and After Approach", Virginia Highway and Transportation Research Council, Charlottesville, Virginia, <u>VHTRC 75-WP20</u>, March 1975.
- 3. Haviland, J. K., D. F. Noble, and H. L. Golub, "Verification of MICNOISE Computer Program for the Prediction of Highway Noise", Virginia Highway & Transportation Research Council, VHRC_73-R37, March 1974.
- 4. Rudder, F. F., Jr., and D. F. Lam, "User's Manual: FHWA Highway Traffic Noise Prediction Model, SNAP 1.0", Federal Highway Administration, FHWA-RD-78-139, January 1979.
- Rudder, F. F., Jr., D. F. Lam, and P. Chueng, "User's Manual: FHWA Level 2 Highway Traffic Noise Prediction Model, STAMINA 1.0", Federal Highway Administration, <u>FHWA-RD-78-138</u>, May 1979.
- Noble, D. F., and J. K. Haviland, "Working Plan: Evaluation of ARMCO Sound Barriers on Two Bridges on I-495", Virginia Highway and Transportation Research Council, Charlottesville, Virginia, VHTRC 76-WP33, March 1976.
- Barry, T. M., and J. A. Reagan, "FHWA Highway Traffic Noise Prediction Method", Federal Highway Administration, <u>FHWA-RD-</u> 77-108, December 1978.

EFFECTIVENESS OF PREDICTIVE COMPUTER PROGRAMS IN THE DESIGN OF NOISE BARRIERS — A BEFORE AND AFTER APPROACH —

Part II-B Supplement - The Noise Level Data

by

J. K. Haviland Faculty Research Scientist

and

D. F. Noble Research Scientist

(The opinions, findings, and conclusions expressed in this report are those of the authors and not necessarily those of the sponsoring agencies.)

Virginia Highway & Transportation Research Council (A Cooperative Organization Sponsored Jointly by the Virginia Department of Highways & Transportation and the University of Virginia)

In Cooperation with the U. S. Department of Transportation Federal Highway Administration

Charlottesville, Virginia

June 1981 VHTRC 81-R54

ENVIRONMENTAL RESEARCH ADVISORY COMMITTEE

E.	т.	ROBB, Chairman, Asst. Environmental Quality Engr., VDH&T
R.	E.	BLASER, Univ. Distinguished Professor, VPI & SU
L.	Ε.	BRETT, JR. District Engineer, VDH&T
Α.	R.	CLINE, District Environmental Coordinator, VDH&T
R.	V.	FIELDING, Materials Engineer, VDH&T
R.	L.	HUNDLEY, Environmental Quality Engineer, VDH&T
Β.	N.	LORD, Research Environmental Engineer, FHWA
D.	D.	MCGEEHAN, Highway Research Scientist, VH&TRC
10T	1 SI	TEPHENS, Assoc. Prof. of Civil Engineering, VPI & SU
₩.	P,	TUCKER, Right-of-Way Engineer, VDH&T
R.	G.	WARNER, Assistant Construction Engineer, VDH&T
R.	В.	WELTON, Environmental Coordinator, FHWA
D.	с.	WYANT, Highway Research Scientist, VH&TRC
J.	E.	YEATTS, Asst. Location & Design Engineer, VDH&T

EFFECTIVENESS OF PREDICTIVE COMPUTER PROGRAMS IN THE DESIGN OF NOISE BARRIERS — A BEFORE AND AFTER APPROACH —

Part II-B Supplement - The Noise Level Data

ЪУ

J. K. Haviland Faculty Research Scientist

and

D. F. Noble Research Scientist

BACKGROUND

The purpose of this supplement is to present the measured noise level data from two studies. The major study referred to evaluated, by a before and after approach, the efficacy of computer programs used in the design of noise barriers. As a part of the major study, the effect of the noise that was reflected off the barrier on the noise level of a site opposite the site of the major study also was evaluated. This first study was financed from highway planning and research funds administered by the Federal Highway Administration (see reference 1). A second supplementary study, see reference 2, also supported by highway planning and research funds, was undertaken to evaluate the effectiveness of continuing the barriers across bridges as opposed to leaving gaps. Because of the high level of activity on the major study, the effort required to obtain the additional measurements was minimized and was expended to take advantage of a relatively unique situation. Because of delays in the construction of the barriers used for the evaluation, the study spanned the years 1976 through 1979.

The major study encompassed 20 measurement locations, 16 locations alongside I-495 in the neighborhood of Long Pine Drive west of Springfield, Virginia, and 4 locations along Joplin Street which is across I-495 from the Long Pine Drive neighborhood. The bridge study covered 8 locations at nearby highway and railroad bridges.

3690

The methodology used was the same as is described in reference 3. One microphone (channel 1) was located alongside the highway (locations A and B), and a second (channel 2) was moved to various locations (1 to 28). In Table 1, Summary of Recordings, the microphone channel locations are listed with the start times and durations of all recordings. In Table 2, Noise Level Data, the levels are listed according to the specifications in reference 3. These levels are averaged over 1-hour intervals, or over the complete measurement if less than 1 hour. Also, 15-hour daytime and 9-hour nighttime averages are given in some cases. In two cases, shorter averages are given to coincide with traffic counts.

To use Table 2, first determine the location number of interest (to avoid repetition, no geographical information is given in this supplement), then consult Table 1, to determine the date and starting time of the measurements made. Then, look for the actual data in Table 2. Go to reference 3 for definitions.

The term "measurement" in Table 2 refers to a digital tape recording, while the term "run" refers to a computer analysis taken from a given measurement. Thus one measurement may be broken into 1-hour runs, a 9-hour (nighttime) run, 15-hour (daytime) run, 24-hour run, or shorter runs to coincide with traffic counts.

TABLE 1

Time Description Date Station Length, Ch. 1 Ch. 2 hours $\frac{1976}{5-17}$ 15:10 А 1:50 Long Pine study before 1 5-17 18:20 А 2 12:00 road barrier installation 5-18 7:45 3 А 2:00 15:00 5-19 6 А 5:43 5-19 22:20 6 А 6:59 5-20 5:20 А 6 16:40 5-20 23:10 11:50 А 8 5-24 14:15 5 А 2:01 5-24 17:00 4 А 24:00 5-25 17:30 7 А 1:59 15:00 6-07 9 А 2:00 6-07 18:00 А 10 12:00 6-08 07:00 А 11 2:00 6-08 10:00 А 12 24:00 6-09 11:00 А 13 2:00 6-09 14:00 14 24:00 А 6-10 15:00 А 16 2:00 6-10 18:00 15 А 12:00 17 6-14 12:48 A :45 Heming Avenue bridge 14:05 6-14 18 А :30 before road or bridge 6-14 15:10 19 barriers А :29 6-14 18:25 20 А :30 1977 :11^a 10:45 10-06 А 25 Reflection study 10-06 12:25 :15ª А 26 before road barrier 10-06 13:15 27 А :11a installation 10-06 14:00 :14ā 28 А 10-06 14:00 А 28 :15

SUMMARY OF RECORDINGS

^aFrom NAGRA Recordings

3692

TABLE	1	(contin	ued)

Date	Time	Sta Ch. 1	tion Ch. 2	Length, hours	Description
<u>1978</u> 8-23 8-23 8-23 8-23	14:22 14:46 15:14 15:40	A A A A	17 18 19 20	a :13a :13a :13a :14	Heming Ave. bridge with road barriers, no bridge barrier
8-24 8-24 8-24 8-24	11:05 11:29 11:56 12:15	B B B B	21 22 23 24	:15ª :14ª :13ª :14	Railroad bridge with road barriers, no bridge barrier
$ \begin{array}{r} 1979 \\ 5-07 \\ 5-08 \\ 5-08 \\ 5-09 \\ 5-10 \\ 5-10 \\ 5-10 \\ 5-21 \\ 5-21 \\ 5-21 \\ 5-22 \\ 5-22 \\ 5-22 \\ 5-22 \\ 5-22 \\ 5-22 \\ 5-22 \\ 5-24 \\ 5-24 \\ 5-24 \\ \end{array} $	15:00 18:00 07:00 10:00 14:00 15:00 18:00 07:00 15:00 18:00 07:30 10:00 19:00 19:00 11:00 14:00 02:30 15:00 18:00	A A A A A A A A A A A A A A A A	9 10 12 14 16 15 13 12 3 4 4 5 6 6 7 8	1:59 12:00 2:00 24:00 24:00 12:00 12:00 1:55 10:52 1:30 8:00 15:00 2:00 11:26 11:30 1:59 10:43	Long Pine Study with road and bridge barriers
5-31 5-31 5-31 5-31 9-17	12:30 13:00 13:30 14:15	A A A A B	26 27 28 25	:15 :15 :15 :15	Reflection study with road and bridge barriers
9-17 9-17 9-18 9-18	15:45 16:15 10:45	B B A	22 23 20 19	:15 :15 :11 :15 :15	road and bridge barriers Heming Ave. bridge
9-18 9-18	12:04 12:35	A A A	17 18	:15 :14 :15	barriers

^aFrom NAGRA Recordings.

^bThree hours deleted from listing.

TABLE 2

SUMMARY OF DATA

2 ONE-HOUR RUNS

MAY 17, 1976, 15:10

73.7 [N] 85.0 DATA SUMMARY FÜR THE TIME PERTOD REGIMNING ISTID AND ENDING TÄTÖD BÅSED OM TÖD. PERCENT USANLE DATA . 3. 6 7. 8 3.1 75.9 55.6 61.2 68.9 70.1 71.4 72.4 73.2 73.9 74.7 75.6 76.8 78.5 80.3 04.0 45.3 46.0 46.6 47.5 48.5 49.3 50.1 51.2 53.1 56.1 60.1 63.0 64.5 - 2

5

67.7 78.5 -INI-8.68 7.97 -TJN DATA SUMMARY FOR THE TIME PERIOD BEGINNING 16:00 AND ENDING 17:00 BASED ON 100. PERCENT USABLE DATA -L51G 2.8 9.2 LEPS 1.2 LEQ 16.7 56.1 86.7 64.4 CHANL L 24 L 25 L 20 L 50 L 20 L 50 L 50 L 50 L 40 L 32 L 20 L 20 L 12 L 5 L 1 69.0 71.0 72.2 73.3 73.9 74.4 75.0 75.5 76.2 76.9 78.5 80.4 11.3 45.2 46.0 47.0 47.9 48.8 49.9 51.2 53.0 55.9 61.6 64.4 2

CONCLUDES MAY 17,1976, 15:10

3694		ł			1				- 2		,		,	1	∿া ⊲≠	1	,	- 0
		INI	51.		101	73. 48.		INT	74. 53. (INI	71.		INI	81. 53		INI	86. 51.
	ΙA	7419	84.0 66.7	I A	TAN	84 . 4 64 . 7	۲v	1 NFL	83.7 66.3	I V	NPL	62.9 63.9	V I	NPL	86.2 64.5	١٨	THN	87.8 62.1
	AHLE UA	1510	3.6	ABLE DA	1516	3•5 3•3	ABLE DA	1516	 	ABLE DA	1516	3•5 3•6	VBLE DA	1516	4.7 4.0	NOLE DA	1516	5•6 3•8
	cent us	TEPS	5.0	CENT US	LEPS	3.0 5.6	CENT US	LEPS	3.5 6.2	CENT US	LEPS	3.0	CENT US	LEPS	5.7 10.7	cent us/	LEPS	2.1
	00. PERC	LEO	75.8 57.4	00. PERC	LEO	75.5	00. PERC	LEQ	74.1 55.8	00. PERC	LEQ.	74.0	00. PERC	LEQ	74.0	00. PERC	LEQ	73.4 52.3
	ED_0N_1	<u> </u>	83.7 61.1	ED ON L		83.7 66.9	ED ON T		82.7 66.7	ED ON 1		83.4 62.3	ED ON 1	L. L	03.7 67.0	ED ON 1		83.7 59.6
	0 BAS	L 5	80.4 62.2	D BAS	- 5 -	80.4 60.8	D BAS	L 5_	79.0	0 BAS	<u>L_5_</u>	79.2 58.8	0 BAS	1 5	79.9 58.2	0 BAS	L 5	79.6 56.8
0	0:61.0	L_10	78.3	3 20:0	110	78.2	3 21:0	L 10	77.0 58.3	3 22:01	1.10	76.3	3 23:0	L_10	77.2 56.4	0:	L_10	76.9 55.5
, 18:2	ENDIN	L 20	76.6 51.4	ENDING	1.20 -	76.5 56.4	ENDING	1 20	75.2 56.1	ENDING	1.20	74.6	ENDING	L-20 -	74.6 54.5	ENDIN	L 20 .	74.0
, 1976	20 AND	1-10	15.1	ONA DO	L_30	75.5	DO AND	1 30	74.0 54.8	U AND	- <u>0</u> E-T	73.5	ON AND	. <u>1</u>	73.3 53.2	U AND	1.30	12.1
iany 17	46 18:	L 40	75.0 55.5	161 91	40	74.6 54.6	16 20:0	1 40	73.1 53.8	16 21:0	- 65 -1	72.6	16_22:0	- 40 -	72.1 52.1	16 23:0	L_40 -	70.8 51.5
	GINNIN	1 50	74.2 54.9	GINNIA	<u>- 50 -</u>	73.8	6 I NN I N	L 50	72.2	GINNIN	L 50 -	71.8 52.3	GINNIA	- 53 -	71.1 51.2	61NNIN	L_50 _	69.1 50.6
	TOD BE	L-60	73.5 54.3	100 BE	- <u>1</u>	72.9	100 BE	- <u>60</u> -	71.3	100 BE	L 60 -	71.0	100 BE	L_60 _	70.2	100 BE	L_60 -	68.6 49.8
	нЕ рец	L_10	72.8	ME PER	- 72-1	72.1	ME PER	- <u>1</u>	70.4	ме рев	- 77 -	70.2 51.0	ME PER	- <u>7</u> 7	69.0 49.6	ME PER	- 07-1	67.4 49.0
0	THE TI	L 10	71.8	THE TI	L_89	11.1	ие Т	L 00 -	69.5 50.9	THE 11	L_80	69.2 50.3	INE TI	00-1	67.7 48.7	11 301	00 1	65.8 48.0
nued	Y FOR	L-91 -	70.4	Y FOR	1 20 -	69.9 51.4	Y FOR	- 20	66.0 49.9	Y FOR	- 30 -	0.00	Y FOR	- 30 -	65.8 47.4	Y FOR	- 30 -	63.9 46.7
conti JNS	SUNMAR	- 35 -	69.5 51.8	SUMMAR'	1- 32 1	68.8 50.7	SUMMAR	L- 22-J	67.0 49.2	БИММАН	1- 58-1	66.9 68.8	SUMMARY	- 25	64.] 46.4	SUMMAR	1- 32	52.2 16.0
2 (c 40UR RI	UATA	- 52 -	68.0 50.9	DATA :	L 99 J	66.5 69.6	DATA	L 99 J	65.2 (DATA S	L 22	55.4 (DATA S	1- 22 -	50.9 (DATA	١- 29 .	59.2 (
ABLE 3 ONE-1	8 	LIANL	- ~		HANL -I	5		HANL -I	5		NANL _I	- ~		JANL L	- 2	÷	JANL J	- 2
					J			ฉ			a			Ü			а	

. .

_
\bigcirc
σ
Ð
-
7
• –
÷
0
ŏ
\sim
\sim
6.1
щ
\triangleleft
F

May 17, 1976, 18:20 CONTINUED

	DATA	N SUMMA	VRY FOF	R THE	LIME PI	ER100	BEGINN	ING	:00 ANI	D ENDI	NG 1:	00 B/	ASED ON	100. PEF	ICENT US	ABLE DA	IA	
CHANL	L 99	L 95	L 90	L 80	-L-ZQ	L-60	<u>L-50</u>	1-40	1.30	L_20	L_10	1.5		LEQ	LEPS	L516	NPL	INI
- 2	55.0 39.6	58.1 41.3	60.1 42.6	62.2 44.1	63.9 45.1	65.4 46.()	66.8 46.9	68.1 47.8	69.5 49.0	71.3 50.8	74.5 53.0	54.6	9 82.9 3 57.6	71.5	12.3 8.0	6.0 4.8	07.0 61.8	87.7 54.1
:	DATA	N SUMMA	RY FO	S THE	TIME PI	ERIOD	BEGINN	ING 1:	:00 ANI) ENDI	NG 2:	00 87	VSED ON	100. PEA	ICENT US	ABLE DA	IA	
CLIANL	L _22	L 95	L 90	L 80	L_70	L 60	L 50	L 40	1.30	L 20	1-10	L 5		LEQ	LEPS	1516	IdN	INI
- 2	52.2	55.3 38.9	57.0 40.1	59.1 42.0	61.1 43.3	62.9 44.5	64.3 45.6	66.1 46.8	68°0 48.5	70.5 50.8	74.8 53.3	55.3	1 83.7 1 58.7	71.5 49.6	16.7 9.9	8.2 6.0	92.4 65.0	97.9 63.0
	DATA	N SUMMA	RY FOF	THE Y	TIME P	ER100	BEGINN	ING 2:	:00 ANI) ENDI	NG 3:	00 B/	VSED ON	100. PEF	ICENT US	ABLE DA	TA	
CHANL	L 99	L 95	1 90	-L-80	L_70	L 60	L 50	L 40	<u>06</u> 1	L_20	1 10	L 5		LEQ	LEPS	1516	NPL	INI
7	51.5 36.7	52.5 39.9	53.7	55•7 43•4	57.7 45.0	59.5 46.5	61.5	63.7 48.8	65.9 50.2	68.7 51.9	73.1 53.9	.76.4	4 81.0 3 59.4	69.5 50.4	19.0 5.3	9.0 4.8	92.6 62.8	101.3
	DATA	N SUMMA	ARY FOI	÷ 1HE	I IME PI	ERIOD	BEGINNI	ING 3:	:00 ANI	END II	NG 4:	00 84	VSED ON	100. PEF	RCENT US	ABLE DA	ΤA	
CHANL	L 99	<u> </u>	L_92	L_19	L_70	L 60	<u> 1-50</u>	1 40	1-30	1 20	<u> </u>	<u> </u>	-1-1-	LEQ	LEPS	1516	NPL	INI
- 2	51.4 35.4	52.9 38.3	54.1 40.3	56.7 42.0	58.6 43.2	60.5 44.5	62.2 45.7	64.1 47.2	66.3 49.2	69.1 51.4	74.0 54.4	78.2	84.1 61.6	71.3 50.9	21.1 15.4	9.2 6.8	94.9 68.3	104.0 66.7
	DATA	N SUMMA	IRY FOI	LINE	I IME PI	ERIOD	BEGINN	1NG 4	:00 ANI	D ENDI	NG 5:	00 B/	ISED ON	LUQ. PEF	RCENT US	ABLE DA	T A	,
CHANL	L 99	L 95	L 90	L_80	L_10	L 60	-L-50	L 40	<u>1 30</u>	L_20	L_10	L_5.		1E9	LEPS	1519-	TAN	INI
7	51.3 35.8	52.4 36.8	53.6 37.5	55.9 39.2	58.2 41.0	60.3 42.5	62.3 43.8	64 • 3 45 • 5	66.6 41.4	68.9 49.6	73.4	17.(0 82.9 2 58.6	70.3 48.4	21.4 8.7	8.7 6.8	92.6 65.7	102.8 67.3
	DATA	N SUMMA	JRY FO	. 3H1 Y	TIME PI	ERIOD	BEGINN	I NG 51	:00 ANE	C ENDI	NG 61	00 B/	VSED ON	100. PEF	ICENT US	ABLE DA	ΙA	
CHANL	L 99	L 95	L 90	L 80	<u>07</u> _1_	L 60	L-50	L 40	L_30	L 20	-L_10	L 5		LEQ	STELS	1516	Tan	INI
- 2	47.4 40.0	51.8 42.4	60.2 44.6	63.9 46.8	66.2 48.3	68.1 49.7	69.8 51.0	71.3	53.3	74.8 54.7	77.6	81.5 57.6	2.85.2 5.60.6	14.4	9•5 3•6	6•] 4•2	90.1 63.6	1.99.7 61.3

	DATA	NMUS V	ARY FOF	3H1 Y	TIME PE	:K100 B	EGINNI	NG 6:	ON AND	ENDIN	16 6:2	0 BAS	ED ON	99. PER	CENT US	ABLE DA	I A	
HANL	1 99	L 95	-L 90	-L-80	L_70	L 60 .	L 50	1 40	<u>1.30</u>	L 20	L_10	L 5		TEG	LEPS	1516	NPL	INI
- 2	66.8 50.4	69.5 51.9	70.6 52.5	72.2	73.5 54.0	74.4 54.6	75.3 55.1	76.2 55.6	77.0 56.3	78.1 57.1	80.2	82.4 59.2	85.2 61.8	77.1	2.7	3.8 2.5	86.8 62.4	78.7
HOUI	S OF N	IGHTTI,	ME															
	DATA	Vmm05_0	ARY: FOR	L. Hele. 1	1 пл – рг	19. UN FA	EGINNI	46-22:	0N7_00	TENDIN	2:9_9	T_BASE		00. PERC	CENT US	JALE DAT	V	
HANL	L-99	L 95	-L-20	T 10	7 T	L 60	L 50	L 40	- T- 30	L_20	L 19	1.5		LEQ	5777	1516	Tan	INI
~	50.5 35.6	53.3 38.8	56.2 40.8	59.8 6.1.3	62.6 45.J	65;0 46,9	67.U' 48.5	68.9 49.9	-70-9 	-73.2 53.2	76.4 55.2	56.9	84.1 60.3	72.8 51.4	11.3 8.5	۲. ۲ ۲۰۱۵ - ۲	91.5 65.4	106.9

TABLE 2 (continued)

TABLE 2 (continued)

MAY 18, 1976, 7:45

3 ONE-HOUR RUNS

	UĂT.	A SUMMA	иу ғор	THE 1	TME PI	RIUD E	SE G I NN I	ING 7	45 ANL	ENGIA	16 19 (0 BAS	ED ON	100. PER	CENT US	AHLE ÜAT	Ņ.	
CLIANL	L 99	<u>56 1</u>	-L_90	L BU	L_70	1.00	<u>1-50</u>	L 40	L_30	1.20	1.10	L_5_		LEQ	LEPS	1516	1411	-INI-
- ~	72.4	73.9	14.1 45.4	75.3	15.9	76.3	76.8	77.5	18.3	19.5	Ы.0 64.3	82.6 64.4	85.0 64.4	78.4 57.4	1.5 5.7	3.3 10.9	06.8 85.3	69.9 91.2
	DATI	A SUMMA	RY FUR	INE	I ME PI	ER10D 6	JEGINN.	ING B	:00 ANC) ENDIG	1:6 9:1	10 BA!	SED ON	100. PER	CENT US.	AOLE DAT	IA	
CLIANL	L 99	L 95	L 20	L 80	L_70	L 60	L 50	L 40	<u>16</u>	L-20	L 10	1.5		LEQ	LEPS	1519	- NPL	INI
5	71.1	13.1	73.9	74.8 45.7	75.5 46.5	76.0 41.3	76.5 48.2	11.0	7.7.7	78.8 54.2	80.8 60.0	82.7 64.3	86.1 64.3	78.1 55.2	2.5 9.2	3.4 9.2	86.8 78.7	71.5 75.9
	DAT	A SUMMA	RY FOR	THE 1	I ME PE	ER100 [JE G I NN	6 9N1	100 ANE) ENDIA	1;6 9;	15 BAS	SED ON	99. PER	CENT US.	ABLE DAT	Ą	
CHANL	L 99	1 95	L 90	L 80	L_70	L 60	L 50	L 40	<u>06 1</u>	L 20	L_10	L 5	TT	LEQ	LEPS	LSIG	IdN	-INI-
7	70.3	72.1	73.2	74.3 45.1	15.2	75.9 46.5	76.4 47.2	77.2 48.2	78.0 49.3	51.6	81.5 57.1	83.2 62.3	86.2 64.3	78.3	2.6 11.6	4.U 7.T	88.4 73.4	76.5 66.1
CONCLI	UDES MA	VY 18, 3	1976, 1	7:45														

9

0	NE-HOUR	RUNS		•				ИАҮ	19, 19	76, 15:	00:							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	DA 1	TA SUMM.	ARY FOI	K THE	TIME P	ERIOD	BEGINN	11NG 15	100 ANI	D ENDI	vie 16:1	00 BA	SED ON	100. PER	CENF US	ABLE DAT	A	
CHA	ML _L 2	<u> 25 1 95</u>	L_90	L 89	٣- ٢٥	19-1-	1 L 54	1-1-9	<u>16</u>	L_20	110	1-5		LEQ	LEPS	1516	NPL	-INI-
	67.	7 69.4 7 57.9	70.4	71.5	72.2	12.1	1 61.3	3 74.0 1 61.9	14.7 02.7	75.6	77.2	78.5	63.5	14.5	1.9	3.0	82.2 66.0	67.4 48.5
	DAT	TA SUMM.	ARY FOI	k THE	TIME P	E.R.1 0D	BEGINN	11NG 16	:00 ANI	D ENDII	46 17:0	00 BA	SED UN	100. PER	CENT US	ABLE DAI	4	
CHA	NUL L 25	2 1 95	L_90	L AU	L_10	19-1-	1 50	1 40	1.30	1.20	1.10	L 5		LEQ	LEPS	1516	HPL	INI
	67.4 50.1	4 69.4 1 59.1	70.6 59.8	71.7 60.8	72.4 61.6	72.1	3 73.4	13.9	74.5	75.4	76.7	78.0 63.5	6.08 63.5	74.3	1.1	2•6 •2	81.0 63.1	65.2 44.5
1	DAI	TA SUMM.	ARY FUI	RTHE	TIME P	ÉRIOD	BEGINN	11 9NT	:00 ANI	D ENDIN	VG 18:0	00 BA	SED ON	100. PER	cent usi	ABLE DAI	٩	
CHA	NL L 25	<u>26 J </u>	-L-20	1 40	1 10	19-1-	05-1- I	1 -1 40	<u>1 30</u>	1 20	110	L 5	TT	TEG	LEPS	1516	THN	INI
- (U	67. 56.£	9 69.4 8 57.8	70.5 58.3	71.5	72.1	72.0	60.8	13.5	74.0	1.63	76.1	17.6	80.7 63.5	74.0	2.4	2.1	80.1 66.6	62.9 49.1
	0A1	LA SUMM	ARY FOI	R THE	TIME P	ER10D	BEGINN	IING 18	: 00 AN	D ENDI	NG 191	00 BA	SED ON	100. PER	CENT US	ABLE DAI	<	
CHA	NL L 95	9 L 25	L 90	L 90	-L-Z0	1 61	1 L 50	1 - 1 - 10	<u>06</u> T	L_20	L_12	<u> </u>		1.60	LEPS	<u>9121</u>	TAN	-INI-
~~	53•6 53•6	6 65.7 3 55.1	67.8 55.7	69.5 56.1	70.6	71.4	1 72.2	59.1	73.6 59.8	74.5 60.8	76.1 62.9	78.1 63.5	81.6 63.5	73.6 59.5	3.4 .9	3 .1 3 . 5	81.4 68.4	70.8
	140	TA SUMM	ану гоі	R THE	11ME P	ER10D	BEGINN	11NG 19	100 ANI	D ENDI	46 20:I	00 BA	SED ON	100. PER	CENT US	ABLE DAT	A	
CHA	NL L 25	2 _L_95	-L-20	<u>1-80</u>	L_70	1 61	<u>15-1-</u> (1 40	16-1-	1.20	1 10	L_5_		LEQ	LEPS	1516	NPL	-INI-
- 2	52.0	2 66.5 3 53.4	67.5 54.0	68.8 54.9	69.8 55.6	70.0	5 71.4	72.1	72.8	73.8 60.5	75.6 62.9	77.9 63.5	61.6 63.5	73.1	3.8 1.4	е.е 4.6	81.5	69.1 59.1
	DA1	LA SUMM	ARY FOI	R THE	KIME P	ER100	BEGINN	11NG 20	:00 ANI	D ENDI	46 20:	A8 64	SED ON	98. PER	CENT US	ABLE DAI	A	
CHA	NL_L_25	3 - L - 45	L 90	L 80	-L_70	-L 61	1 - L - 50	1-L-40	0E T	L_20	L_10	L 5		TEQ	LEPS	1516	NPL	TNI
- ~	61.1	1 63.9 7 52.2	65.2 53.2	66.8 54.3	68.1 55.0	69•1 55•6	56.3	1 70.8	71.758.1	12.1	74.5	17.3 63.5	81.7 63.5	72.1 58.3	5.5 1.8	3.6 5.0	81.2 71.1	72.4

TABLE 2 (continued)

CONCLUMES MAY 19, 15/6, 15:00

															3	699
INI	72.7 51.1		INI	81.1 53.6		INI	87.2 58.2		INI	93.6 67.4	,	INI	89.] 65.]	: : :	INI	91.8 72.2
A NPL_	82.3 62.8	A	IdN	86.0	A	NPL	86.4 64.9	A	NPL	91.4	۷	IdN	0.9.9 67.0	A	NPL	90.6 65.0
BLE DAT	4 • F 9 • 4	BLE DAT	1516	3.5	BLE DAT	1516	6.2 4.6	BLE DAT	1516	8 . 1 5 . 2	BLE UA	1516	8.3 6.2	BLE DAI	1516	8•3 4•9
ENT USA	10.5 .8	ENT USA	LEPS	10.1	ENT USA	LEPS	14.7 1.4	ENT USA	LEPS	21.6 1.9	ENT USA	LEPS	31.6 3.2	ENT USA	LEPS	22.9
00. PERC LEQ	71.7 54.2	00. PERC	LEU	71.9 54.0	00. PERC	LEQ	70.6	00. PERC	LEQ	70.6	00. PERC	LEQ	68.7 51.0	00. PERC	LEQ	69.3 53.1
HE TIME PERIOD BEGINNING 22:20 AND ENDING 23:00 BASED ON 40 t 10 t 60 t 50 t 40 t 30 t 20 t 10 t 5 t 1	5.6 66.7 61.7 68.6 69.5 70.5 71.7 73.9 77.1 82.1 0.7 51.6 52.5 53.2 54.0 55.0 56.4 57.5 57.5 57.5	HE TIME PÉRIOD BEGINNING 23:00 AND ENDING :00 BASED ON	80 T 10 T 80 T 20 T 40 T 30 T 50 T 18 T 2 T 1	4.3 65.4 66.5 67.7 68.8 70.1 71.9 74.8 78.4 82.5 0.2 51.1 52.0 52.9 53.8 54.8 56.2 57.5 57.6	HE TIME PERIOD BEGINNING :00 AND ENDING 1:00 BASED ON	<u>80 L 70 L 50 L 50 L 40 L 30 L 20 L 10 L 5 L 1</u>	1.7 63.3 64.5 65.8 67.2 08.4 70.3 73.7 76.7 81.7 8.6 49.7 50.6 51.5 52.4 53.7 55.3 57.4 57 <u>.</u> 5 57.6	HE TIME PERIOD BEGINNING 1:00 AND ENDING 2:00 BASED ON	<u>80 - 1.70 - 1.60 - 1.50 - 1.30 - 1.20 - 1.10 - 1.5 - 1.1</u>	8.6 60.3 61.7 63.1 64.6 66.5 69.1 73.5 77.6 82.6 6.4 48.0 49.3 50.9 52.5 54.3 55.8 57.5 57.5	HE TIME PERIOD BEGINNING 2:00 AND ENDING 3:00 BASED ON	<u> </u>	7.0 58.4 59.9 61.0 62.4 64.3 67.1 71.6 74.8 80.3 4.3 45.5 46.7 47.7 49.0 50.5 52.8 55.7 57.5 57.6	HE TIME PERTOD HEGINNING 3:00 AND ENDING 4:00 BASED ON	<u>-00 .L.10 .L.50 .L.50 .L.40 .L.30 .L.20 .L.10 .L.5L.1.</u>	7.2 58.8 60.1 61.6 63.4 65.2 67.9 72.3 75.6 81.6 5.0 47.0 49.2 51.2 53.1 54.3 56.0 57.5 57.5 57.6
MMARY FOR T 95 <mark>- L-90 - L</mark>	•0 64.2 6 •8 49.7 5	MMARY FOR T	<u> 25 - L- 20 - L</u>	•4 62•7 6 •6 48•0 5	MMARY FOR I	95 L 90 L	.8 59.2 6 .6 47.1 4	ММАНҮ FOH I	25 -L-20 -L	•7 56.8 5 •5 44.2 4	MMARY FOR I	25 -L-20 -L	.0 55.7 5 .0 42.6 4	мидру бор 1	25 -L-20 -L	•1 55•8 5 •9 42•7 4
DATA SU	61.2 63 46.9 48	DATA SU	L 22 L	59.3 61 45.7 47	DATA SU	1 99 1	55.9 57 42.0 45	DATA SU	L 22 L	54.4 55 37.7 42	DATA SU	L 99 L	53.7 55 38.3 41	DATA SU	L 32 L	54.1 55 37.9 40
CHANL	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		CHANL	1 2		CHANL	1		CHANL -	- 2		CHANL -	5		CHANL -	- 2

MAY 19, 1976, 22:20

~

8 ONE-HOUR RUNS

TABLE 2 (continued)

* 2.1

، ,

BLE 2 (continued) IMV 19, 1976, 22:20 CONTHUED DATA SUMMARY FOR THE THE PERIOD BEGINNING 4:00 AND ENDING 5:00 BASED ON 100. PERCENT USABLE DATA DATA SUMMARY FOR THE THE PERIOD BEGINNING 4:00 AND ENDING 5:00 BASED ON 100. PERCENT USABLE DATA HL 199 195 190 190 170 150 150 150 150 552 55.5 57.5 57.5 57.6 27.0 20.0 20.1 57.0 50.5 56.4 56.1 59.0 50.5 50.3 55.5 55.5 57.5 57.6 57.6 27.0 20.1 57.0 50.5 56.4 56.1 59.0 50.5 51.5 55.3 56.6 57.5 57.6 57.6 27.0 20.1 57.0 50.1 50.0 50.0 52.7 53.3 56.6 57.5 57.5 57.6 57.6 20.0 00.0 FERCENT USABLE DATA ML 199 195 190 170 150 150 150 140 140 140 15 11 150 155 00.0 55.6 57.7 50.6 57.0 51.0 51.0 55.4 57.2 57.5 57.5 57.6 57.6 70.0 16.3 7.4 69.0 55.6 57.7 50.0 51.0 51.0 55.4 57.2 57.5 57.5 57.6 57.6 70.0 16.3 7.4 69.0 55.6 57.7 50.0 51.0 51.0 55.4 57.2 57.5 57.5 57.6 57.6 70.0 16.3 7.4 69.0 55.6 57.7 50.0 51.0 51.0 55.4 57.2 57.5 57.5 57.6 57.6 70.0 16.3 7.4 69.0 55.6 57.7 40.2 40.5 50.0 51.0 55.4 57.2 57.5 57.5 57.6 57.6 70.0 16.3 7.4 69.0 75.6 57.7 55.8 57.1 40.2 40.5 50.0 51.0 52.0 AND ENDING 5119 BASED ON 100. FERCENT USAULE DATA DATA SUMMARY FOR THE THE PERIOD REGINING 22:20 AND ENDING 5119 BASED ON 100. FERCENT USAULE DATA 34 1 92 1 95 1 90 4.12 1 60 1.5 62.9 64.5 56.2 64.0 75.0 75.7 57.5 57.5 57.6 57.6 57.6 57.6 57.6	TABLE 2 (continued) nat summary for the The PERIOD BEGINNING 4:00 AND ENDING 5:00 BASED ON 100. PERCENT USARLE DATA Data summary for the The PERIOD BEGINNING 4:00 AND ENDING 5:00 BASED ON 100. PERCENT USARLE DATA CHAML 1.92 1.5 1.90 1.00 1.10 1.00 3:01 20.10 0.10 1.00 0.000 0.000 0.000 0.000 0.000 0.000 1 34:3 55.2 50.4 50.9 51.9 52.7 53.7 54.3 55.3 56.6 57.6 57.6 57.6 57.6 57.6 57.6 54.7 2.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	3760	INI 92.1 50.8	1N1 88.1 55.6	1N1 92.3 64.2
<pre>BLE 2 (continued) MAY 19, 1976, 22:20 CONTINUED Data summary FoR THE THE PENDO BEGINNING 4100 AND ENDING 5:00 BASED ON 1000 PERCENT USABLE DAT Data summary FOR THE THE PENDO BEGINNING 4100 AND ENDING 5:00 BASED ON 1000 PERCENT USABLE DAT S4:3 552 564 561 592 602 621 531 531 551 55.3 56.6 57.6 57.6 57.6 57.6 24. 20 23.0 0.3 MM L 29 L 25 L 90 L 80 L 10 L 50 L 50 L 40 L 30 L 20 L 10 L 5 L 1 L LE0 LEES 1510 Data summary FOR THE THE PERIOD BEGINNING 5:00 AND ENDING 5:19 BASED ON 1000 PERCENT USABLE DAT MM L 29 L 95 L 90 L 80 L 10 L 50 L 50 L 40 L 30 L 20 L 10 L 5 L 1 L LE0 LEES 1515 S56.6 77.9 59.0 60.6 62.0 51.1 52.8 53.3 55.4 57.2 57.5 57.6 57.6 54.2 10.1 3.7 JUES OF NIGHTTHE DATA SUMMARY FOR THE THE PERIOD BEGINNING 2:10 AND ENDING 5:19 BASED ON 100. PERCENT USABLE DAT JUES OF NIGHTTHE DATA SUMMARY FOR THE THE PERIOD BEGINNING 2:22 AND ENDING 5:19 BASED ON 100. PERCENT USABLE DAT JUES 0F NIGHTTHE DATA SUMMARY FOR THE THE PERIOD BEGINNING 2:22 AND ENDING 5:19 BASED ON 100. PERCENT USABLE DAT JUES 0F NIGHTTHE DATA SUMMARY FOR THE THE PERIOD BEGINNING 2:22 AND ENDING 5:19 BASED ON 100. PERCENT USABLE DAT JUES MAY 19, 1976, 22.20 JUEDEMA 19, 1976, 22.20 JUEDEM</pre>	TABLE 2 (continued) IAM 19, 1976, 22:20 CONTHUED Data Summary For THE THE FRIOD BEGINNING 4:00 AND ENDING 5:00 BASED ON 100. PERCENT USABLE DAT Data Summary For THE THE FRIOD BEGINNING 4:00 AND ENDING 5:00 BASED ON 100. PERCENT USABLE DAT CHOML 199 195 1.30 50.13 55.13 55.13 55.13 55.13 55.13 55.13 55.13 55.15 57.05 57.0 59.14 2.3 3.3 1 2 57.13 55.13 55.13 55.13 55.15 57.05 57.0 59.14 2.3 3.3 1 5 <td>4</td> <td>NPL-</td> <td>19. H9. B</td> <td>A NPL 88.3 64.5</td>	4	NPL-	19. H9. B	A NPL 88.3 64.5
<pre>BLE 2 (continued) MAY 19, 1976, 22:20 CONTHUED Data Summary For The Trime PERIOD BEGINNING 4:00 AND ENDING 5:00 BASED ON 100. PERCENI USA ML 192 1 95 1 90 1 90 1 10 1 60 1 50 1 40 1 20 1 10 1 5 1 1 1 160 1 EE 54,3 55.2 56.4 56.1 50.5 50.6 52.2 63.5 56.2 56.6 57.6 57.6 57.6 54.4 2.0 Data Summary For The Thim PERIOD BEGINNING 5:0 400 ENDING 5:19 BASED ON 100. PERCENI USA ML 192 1 95 1 90 1 90 1 10 1 60 1 50 1 40 1 20 1 20 1 10 1 5 1 1 1 160 1 EE ML 192 1 95 1 90 1 90 1 10 1 60 1 50 1 40 1 20 1 10 1 5 1 1 1 160 1 EEE 55.6 57.9 50.0 60.6 62.0 63.1 64.3 55.4 57.2 57.5 57.6 57.6 57.6 10.1 Data Summary For The Time PERIOD BEGINNING 5:0 401 0 105 10 100. PERCENI USA ML 192 1 95 1 90 1 10 1 60 1 50 1 40 1 20 1 10 1 5 1 1 1 160 1 162 45.6 47.3 40.2 40.5 50.0 51.9 52.8 53.9 55.4 57.2 57.5 57.6 57.6 57.2 10.1 DHXS OF NIGHTTHE DATA SUMMARY FOR THE TIME PERIOD REGINING 22:20 AND ENDING 5:19 BASED ON 100. PERCENI USA 4 1 99 1 95 1 90 1 10 1 60 1 50 1 40 1 10 1 20 1 10 15 1 1 1 160 1 163 4 1 99 1 95 1 90 1 10 1 60 1 50 1 40 1 10 1 20 1 10 15 1 1 1 160 1 163 4 1 99 1 95 1 90 4 4012 65.0 64.5 56.2 68.0 70.0 70.7 75.6 57.6 57.6 57.6 53.4 115 54.4 55.8 57.1 99.4 4012 50.8 52.0 53.2 54.3 55.9 57.5 57.6 57.6 57.6 53.4 115 54.4 55.8 57.1 99.4 4012 50.8 52.0 53.2 54.3 55.9 57.5 57.6 57.6 53.4 115 54.4 55.8 57.1 99.4 4012 50.8 52.0 53.2 54.3 55.9 57.5 57.6 57.6 53.4 115 54.4 55.8 57.1 99.4 4012 50.8 52.0 53.2 54.3 55.9 57.5 57.6 53.4 115 54.4 55.8 57.1 99.4 4012 50.8 52.0 53.2 54.3 55.9 57.5 57.6 53.4 115 54.4 55.8 57.1 99.4 4012 50.8 52.0 53.2 54.3 55.9 57.5 57.6 53.4 115 54.4 55.8 57.1 99.4 4012 50.8 52.0 53.2 54.3 55.9 57.5 57.6 57.5 57.6 53.4 115 54.4 55.8 57.1 59.4 59.6 50.8 52.0 53.2 54.3 55.9 57.5 57.6 53.4 115 54.4 55.9 57.5 57.6 57.5 57.6 57.5 57.6 57.</pre>	TABLE 2 (continued) IAY 19, 1976, 22:20 CONTINUED DATA SUMMARY FOR THE TIME PERIOD BEGINNING 4:00 AND ENDING 5:00 BASED ON 100. PERCENI USA CHAML 192 L 92 L 90 L 90 L 10 L 60 L 50 L 40 L 30 L 20 L 10 L 5. L1 L LEQ LEES 1 54,3 55,2 56,4 50,1 59,5 50,9 52,7 53,7 54,3 55,3 56,6 57,6 57,6 54,4 2.0 2 47,6 40,2 49,4 50,9 51,9 52,9 50,9 62,7 53,7 54,3 55,3 56,6 57,6 57,6 54,4 2.0 1 54,3 55,2 56,4 50,1 59,5 50,9 52,7 53,7 54,3 55,3 56,6 57,6 57,6 54,4 2.0 1 54,3 55,2 56,4 50,1 59,5 50,9 52,7 53,7 54,3 55,3 56,6 57,6 57,6 54,4 2.0 0AIA SUMMARY FOR THE THE PERIOD BEGINNING 5100 AND ENDING 5119 BASED ON 100. PERCENT USA CHAML L 99 L 92 L 90 L 90 L 70 L 50 L 50 L 40 L 30 L 20 L 10 L 5. L1 L LEQ LEES 1 55,6 57,9 59,0 60,0 52,0 63,0 51,9 55,8 53,5 57,6 57,6 57,6 54,2 10,1 105 2 55,6 47,1 40,2 40,5 50,0 51,0 52,8 53,9 55,4 57,2 57,6 57,6 54,2 10,1 105 2 45,6 47,1 40,2 40,5 50,0 51,0 52,8 53,9 55,4 57,2 57,6 57,6 54,2 10,1 105 7 HOURS OF HIGHTTHE AND ENDING 2210 AND EHDING 5119 BASED ON 100. PERCENT USA 0AIA SUMMARY FOR THE THE PERIOD REGINING 2220 AND EHDING 5119 BASED ON 100. PERCENT USA 1 100183 OF HIGHTTHE 1 100 L 20 L 10 L 10 L 10 L 10 L 20 L 10 L 20 L 10 L 1	BLE DAT	LSIG 8.3 3.0 BLE DAI	1.4 7.4 3.7	1.516 1.516 1.0 1.0
<pre>BLE 2 (continued) Data summary for Hie Time Freiou BEGINNING 4:00 AND ENDING 5:00 BASED ON 100. PERC ML <u>199 L95 L90 L90 L10 L50 L50 L40 L30 L20 L10 L5. L11 LE0</u> 54:3 55:2 56:4 56:1 59:5 60:0 62:2 63:5 55:3 56:6 57:6 67:6 64:4 041 L99 L95 L90 L90 L10 L50 L50 L40 L30 L20 L10 L5 L11 LE0 54:3 55:5 56:6 57:9 50:9 51:9 52:7 53:5 55:3 56:6 71:6 57:6 64:4 041 L99 L95 L90 L90 L10 L50 L40 L30 L20 L10 L5 L11 LE0 56:6 57:9 59:0 60:6 62:0 63:1 64:3 65:4 67:3 57:5 57:5 57:6 57:6 54:2 45:6 67:3 40:2 49:5 50:8 51:9 52:8 53:9 55:4 57:2 57:5 57:6 57:6 54:2 45:6 71:3 40:2 49:5 50:8 51:9 52:8 53:9 55:4 57:2 57:5 57:6 57:6 54:2 45:6 71:3 40:2 49:5 50:8 51:9 52:8 53:9 55:4 57:2 57:5 57:6 54:2 0MS OF NIGHTTHE DATA SUMMARY FOR THE THE PERIOD REGINATION 22:20 AND ENDING 5119 BASED ON 100. PERC 05:4 55:3 51:1 59:4 61:2 62:0 63:1 64:3 65:2 68:0 70:0 73:4 76:3 82:0 70:0 35:4 55:8 57:1 59:4 61:2 62:0 63:2 64:3 05:0 70:0 73:4 76:3 82:0 70:0 35:4 55:8 57:1 59:4 40:5 50:8 52:0 53:2 54:3 55:9 57:5 57:5 57:6 50:4 39:4 43:3 45:3 40:9 49:5 50:8 52:0 53:2 54:3 55:9 57:5 57:6 53:4 39:4 43:3 40:9 40:5 50:8 52:0 53:2 54:3 55:9 57:5 57:5 57:6 53:4 39:4 43:3 40:9 40:5 50:8 52:0 53:2 54:3 55:9 57:5 57:5 57:6 53:4 30:4 13:1 19:1 19:1 20:1 10:1 150 150 30:4 13:1 19:0 40:5 50:8 52:0 53:2 54:3 55:9 57:5 57:5 57:6 53:4 30:4 13:1 19:1 19:1 10:1 150 150 30:4 13:1 10:1 10:1 10:1 150 150 30:4 13:1 10:1 10:1 10:1 10:1 150 150 30:4 13:1 10:1 10:1 10:1 10:1 10:1 10:1 10 30:4 13:1 40:0 40:5 50:8 50:0 53:2 54:3 55:0 55:5 57:6 57:5 57:6 53:4 30:4 13:1 10:1 10:1 10:1 10:1 10:1 10:1 10:1</pre>	TABLE 2 (continued) IAA 19, 1976, 22:20 CONTINUED Data Summary FOR THE THME PERTOD BEGINNING 4:00 AND ENDING 5:00 BASED ON 100. PERC CHAML 192 192 192 199 1.01 1.00 1.01 100 ENDING 5:00 BASED ON 100. PERC CHAML 192 1.92 1.92 1.90 1.01 1.01 1.01 1.01 1.01 1.01 1.01	ENT USA	LEPS 23.8 .8 ENT USA	LEPS 16.3 1.1	LEPS 17.6 1.5
<pre>BLE 2 (continued) IAY 19, 1976, 22:20 CONTINUED DATA SUMMARY FON THE TIME PERIOD BEGINNING 4:00 AND ENDING 5:00 BASED ON 10 ML 192 L95 L90 LBD LT0 L60 L50 L40 L30 L20 L10 L5 L1 54:3 55:2 56:6 57:5 57:6 57:6 57:6 54:3 55:2 56:9 59:9 59:9 52:7 53:7 54:3 55:3 56:6 57:5 57:6 57:6 0 51:9 50:9 59:9 59:9 52:7 53:7 54:3 55:3 56:6 57:5 57:6 57:6 0 and SUMMARY FON THE TIME PERIOD BEGINNING 5:00 AND ENDING 5:19 BASED ON 10 ML 192 L95 L90 L80 L70 L60 L50 L40 L30 L20 L10 L5 L1 ML 192 L95 L90 L80 L10 L60 L50 L40 L30 L20 L10 L5 L1 ML 192 L95 L90 L80 L10 L60 L50 L40 L30 L20 L10 L5 L1 ML 192 L95 L90 L80 L10 L60 L50 L40 L30 L20 L10 L5 L1 ML 192 L95 L90 L80 L10 BEGINNING 2:20 AND ENDING 5:19 BASED ON 10 JUKS OF NIGHTTHH:</pre>	TABLE 2 (continued) IAX 19, 1976, 22:20 CONTINUED Data Summary FOR THE TIME PERIOD BEGINNING 4:00 AND ENDING 5:00 BASED ON 10 CHAML 192 192 192 190 198 170 150 150 150 150 150 150 100 100 CHAML 193 552 564 591 592 600 150 150 150 150 150 150 100 10 2 47.6 400 991 191 170 160 EGINNING 5:00 AND ENDING 5:10 976 676 2 47.6 400 991 991 170 160 EGINNING 5:00 AND ENDING 5:10 950 100 10 CHAML 192 192 190 1.00 110 150 0 AND ENDING 5:10 950 100 10 CHAML 192 192 190 1.00 110 150 0 AND ENDING 5:10 900 100 100 CHAML 192 192 190 1.00 110 150 1.50 1.40 1.30 1.20 1.10 1.5 1 56.6 57.9 50.0 51.9 52.0 53.9 55.4 57.2 57.5 57.6 57.6 57.6 2 45.6 47.3 40.2 49.5 50.8 51.9 52.8 53.9 55.4 57.2 57.5 57.6 57.6 57.6 57.6 57.6 57.6 57.6	De PERC	LEQ 69.8 54.4 10. PERC	10.8 54.2 54.2	
<u>щ ZI ZI 6 🖻 й</u>	TAE CHAN CHAN 2 HO 2 HO 2 HO 2 CUAN CUAN CONC	<pre>LE 2 (continued) MAY 19, 1976, 22:20 CONTINUED Data SUMMARY FOR THE TIME PERIOD BEGINNING 4:00 AND ENDING 5:00 BASED ON 100.</pre>	IL L 99 L 95 L 90 L 80 L 70 L 60 L 50 L 50 L 40 L 30 L 20 L 10 L 5 L 1 L 5 54.3 55.2 56.4 58.1 59.5 60.8 62.2 63.5 65.2 68.0 72.8 76.4 82.0 6 47.6 48.9 49.8 50.9 51.9 52.7 53.7 54.3 55.3 56.6 57.5 57.6 57.6 5 0 100. DATA SUMMARY FOR THE TIME PERIOD BEGINNING 5:00 AND ENDING 5:19 BASED ON 100.	L L 22 L 25 L 20 L 80 L 70 L 60 L 50 L 40 L 30 L 20 L 10 L 5 L 1 L 56.6 57.9 59.0 60.6 62.0 63.1 64.3 65.4 67.3 69.6 73.8 78.0 82.4 7 45.6 47.3 48.2 49.5 50.8 51.9 52.8 53.9 55.4 57.2 57.5 57.6 57.6 E URS OF NIGHTTINE	LUDES MAY 19, 1976, 22:20
۰,

MAY 20, 1976, 5:20

17 ONE-HOUR RUNS

		;				ļ			-	I		1			1 1	3	701
	INI	64 5 63.3	•	INI	13.1	:	INI	66.7 56.9		INI	6.99 66.3		INI	80.1 58.2		INI	97.6 54.3
ſĂ	NPL	87.6 71.9	[A	NPL	84.8 67.9	LA LA	NPL	83.3 71.2	A	NPL	15.2	L A	NPL	83.8 67.4	A N	TAN	98.1 68.7
VBLE DA	LSIG	5.6	BLE DA	1519	3.6 3.7	BLE DAT	1516	3.2 4.3	BLE DA	<u>9131</u>	ດ ເຊິ່ງ ເຊິ່ງ	BLE DA	L516	9•5 9•5	BLE DA	L516	8.0 3.8
ENT USA	LEPS	10.4 3.8	ENT USA	LEPS	3.7	ENT USA	LEPS	3.] 2.4	ENT USA	LEPS	2.1	ENT USA	LEPS	6.1 1.8	ENT USA	LEPS	6.0 3.1
00. PERC	LEQ	73.2 58.9	DO. PERC	TEQ	15.1	DO. PERC	LEG	75.2 60.1	JO. PEŔĊ	LEQ	75.7 61.8	00. PERC	LEQ	73.1 59.2	DO. PERC	LEQ	1.65
ED ON 1		84.0 67.5	ED ON 1		84.1 67.5	ED ON 10		83.5 67.5	ED ON 10		83.3 67.6	ED ON 1		82.2	ED ON 10		86.2 67.5
DO BAS	- T T-	79.0	0 BAS	1 5	80.6 63.9	0 BASI	L 5	19.3	O BASI	L 5	80.2	0 BAS	1 5	78.0 63.2	D BAS	1-5	85.1 64.3
40 6:4	1.10	16.4	11 11	0T-T-	78.4	16 8:0	1.10	17.6	6 9:0	110	18.4	10:01	110	76.0	11:0	111	82.9 61.9
ENDIN	1 20	73.5	ENDIN	L 20	76.3	ENDIN	1 20	15.8	ENDIN	1 20	16.1	ENDIN	L 20	74.2 60.8	ENDIA	1 20	78.4 59.6
ZO AND	L_30	71.8 58.2	00 AND	1 30	75.2	OU AND	DE L	74.8 59.6	ON AND	1 30	15.4	00 AND	1.30	13.1	00 AND	DE T	75.5 58.5 oted.
NG 51	1 40	70.6	NG 6:	04-1-	74.4 58.7	NG 71	L 40	74.1	NG 8:	1 40	74.6	NG 91	1 40	71.9	NG 10:	1 40	73.7 57.7 not n
EGINNI	L 50	69.2 56.0	EGINNI	1.50	73.8 58.1	EGINNI	L 50	73.6 58.0	EGINNI	L 50	73.9	EGINNI	L 50	70.6	EGINNI	L 50	72.7 57.0 cause
R100 B	L 60	61.9 55.2	RIOD B	L 60	73.3	R 100 B	1 60	2.61	R100 B	1 60	73.5	RIUD B	<u>1 60</u>	69.3 56.8	RIOD B	L 60	71.6 56.4 excess
IME PE	11_1	66.7 54.5	IME PL	1-10	72.6	IME PE	1.70	72.6 56.9	IME PE	L_70	72.9	IMĘ PĘ	T 10	68•0 55•6	IME PE	L_70	70.6 55.8
THE 1	<u>1 80</u>	65.2 53.6	THE	L.82	71.6	THE T	-L 60	72.1	THE	-L-89	72.2 57.2	THE	-1-90	66.6 54.6	THE T	L 80	69.4 55.2 2:00, t
HY FUR	-L-90	63.7 52.2	ну ғон	L 90	70.1 55.8	RY FOR	L 90	71.3	RY FOR	L 90	71.3	RY FOR	L_90	64.6 53.5	RY FOR	L 20	68.0 54.4) to 10
SUMMA	L 95	62.4 51.2	SUMMA	L 95	68.6 55.0	SUMMA	L 95	70.4	SUMMA	1 95	70.0	SUMMA	L 95	63.7 52.6	SUMMA	L 25	66.6 53.8 10:00
DATA	L 92	59.2	UATA	L 99	65.7 53.0	DATA	1 99	68.2 54.6	DATA	L 92	68.0 54.2	DATA	L 92	61.8 50.8	DATA	L 22	64.0 52.9 Ch. 1.
	CHANL	- 2		CHANL	- 2	!	CHANL	2		CHANL	1		CHANL	2 Z		CHANL	7

	·							70
		MAY 20, 1976, 5:20	CONTINUED					
	SUMMARY FOR THE TIME PERIOD	BEGINNING 11:00 AND EN	NDING 12:00 BASED C	N ÌOO• PER	CENT USA	HLE DAT	٩	
t,	T 32 T 30 T 80 T 10 T 91	0 - L 50 - L 40 - L 30 - L	20 110 15 1	LEQ	LEPS	L516	TH	INI
	67.3 68.6 70.2 71.5 72.5 54.0 54.8 55.8 56.6 57.3	5 73.5 74.6 76.0 77 3 57.9 58.6 59.4 60	7.8 80.3 81.9 84. 0.6 62.6 64.9 67.	8 76.3 5 59.7	3.9 2.3	5.3	89.9 69.2	85.3 56.0
<	SUMMARY FOR THE TIME PERIOD	BEGINNING 12:00 AND EN	NDING 13:00 BASED C	N 100. PER	CENT USA	BLE DAT	ح	
] ~	r 32 - r 30 - r 80 - r 70 - r 90	0 L 50 L 40 L 30 L	20 1 10 1 2 1		LEPS	L516	NPL	INI
	67.6 68.4 69.7 70.7 71.5 52.6 53.4 54.8 56.0 56.6	5 72.2 73.1 73.9 75 8 57.6 58.3 59.1 60	5.4 78.1 80.0 83. 0.1 61.8 63.6 67.	5 74.7 2 59.0	4 • 4 7 • 9	4.6 3.3	86.4 67.5	77.2 56.9
TA	SUMMARY FOR THE TIME PERIOD	BEGINNING 13:00 AND EN	VDING 14:00 BASED C	N 100. PER	CENT USA	BLE DAT		
5	L 25 L 20 L 80 L 10 L 60	0 L 50 L 40 L 30 L	20 T 10 T 2 T 1	LEQ	LEPS.	L516	NPL	INI
6 0	54.0 54.1 55.9 56.8 51.0	3 72.0 72.8 73.8 73. 6 58.3 58.9 59.7 60	5.0 11.2 19.1 82. 0.7 62.1 63.9 67.	5 74•1 2 59•6	4.0 1.9	4 • 0 9 • 0	84.3 67.2	75.2 54.3
IA	SUMMARY FOR THE TIME PERIOD	BEGINNING 14:00 AND EN	VDING 15:00 BASED C	N 100. PER	CENT USA	BLE DAT	٩	
32	<u>1 22 1 20 1 50 1 70 1 60</u>	4 05 T 05 T 05 T 0	20 - 10 - 2 1	460	-LEPS	1516	TdN	INI
0	65.3 66.3 67.4 68.4 69.4 52.9 53.7 54.9 55.7 56.3	4 70.2 71.0 71.9 73 3 56.9 57.5 58.2 59	3.2 75.6 77.5 80. 9.2 61.1 63.0 66.	6 72.3 6 58.5	3.8 2.5	4.2 3.3	83.1 66.9	73.4 53.1
TA.	SUMMARY, FOR THE TIME PERIOD	BEGINNING, IStou AND EN	4D1NG_16:00ASED_0	N 100. PER	CENT USA	BLE DAT	e	
1 22	L 25 L 20 L 80 L 10 L 60	0 L 50 L 40 L 30 L	20 1 10 1 5 1 1	LEQ	LEPS	- 1516	-THN	INI
40	67.4 68.6 69.9 71.0 71.6 54.1 54.8 55.9 56.6 57.4	6 12.4 13.2 13.9 <u>14</u> 4 51.9 58.6 59.5 60	1.9 76.6 78.3 81. 0.6 62.3 64.0 67.	5 73.8 6 59.5	2.6 2.1		82.2 68.2	70.5 54.6
V	SUMMARY FOR THE TIME PERIOD	BEGINNING 16:00 AND EN	4D1NG 17100 BASED 0	N 100. PER	CENT USA	BLE UAT		
7	L 95 _L 90 _L 80 _L 70 _L 60	0 1 50 1 40 1 30 1	20 1.10 1.5 1.1	TEO	LEPS .	1516	NPL	TNI
- 9	56.1 59.5 70.0 71.6 72.3 55.2 56.3 57.4 50.0 50.5	3 72-9 73-5 14-2 75 5 59-1 59-8 60-5 61	5.2 71.0 78.8 82. 1.7 64.2 65.8 67.	2 74.4 6 60.8	3.0 1.9	3.2 4.0	82.5 71.1	69.4 57.9

continued)
2
TABLE

۰.

MAY 20, 1976, 5:20 CONTINUED

		DATA	SUMM/	ARY FO	R THE	I IME	PER100	BEG1	NING 1	1:00 /	ANU EN	DING	18:00	BASE	I NO O	.00. PER	CENT US	ABLE DA	41 A		
i	CHANL	1 99	L 95	L 90	1 81	7 7 7	<u>1 1</u>	1 0	57 - F - 4	7 7	30 L	20 L	10 1	2	T T	LEU	LEPS	L516	TdN	INI	
	2	53.8	68.2 55.1	69.3 55.7	56.4	5 71. 1 58.	3 71. 0 59.	9 72 0	5 73. 0 61.	1 /3 1 62	1 74 0 63	0 62	4 ° C	1.8.1	83.0 67.6	74.1	3•8 1•5	3.5 .5	82.1 70.2	67.7 60.8	
		DATA	SUMMA	ARY FO	R THE	IIME	PERIOD	BEGIN	I 9NIN	8:00 /	ANU EN	DING	00:61	BASE	D ON 1	00. PER	CENT US	ABLE DA	11 1		:
	CHANL	L 99	L 95	L 20	- L _ <u>9</u>	1-1	0 - L - 6	1	20 -L-4		30 L	20 L	1 01	5	L L	LEQ	LEPS	1516	NPL	INI	
		65.4 53.0	67.5 54.1	68.6 54.7	69-7 55-7	70.	5 71.	2 71	8 72. 8 58.	5 73 59	5 60	1 10	6.6	1.8	81.4 67.6	73.3	3.2 2.3	3.2 3.8	81.4 69.3	67.4 56.2	
	1	DATA	SUMMA	ARY FO	R THE	TIME I	DER100	BEGIN	I SNIN	v n0:6	ND EN	0 1 N C	00:00	BASE	D 0N 1	00. PER	CENT US	ABLE DA	ITA	4	
	CHANL	1 92	L 95	L 90	L 80	1-1	0 -L- 0	5 T 0	£ 1 0	ם ב	1 0	20 1	1 01			LEO	LEPS	L516	NPL	INL	
	5	64.3 51.6	53.0	67.4 54.0	68.6 55.2	56.	5 70.	2 71. 5 59.	0 71. 3 61.	2 62.	5 73	• 6 75 • 4 66	4.1	7.5	81.2 67.6	12.1 62.0	3.8 2.3	3.4 5.6	81.5 76.3	69.5 73.6	
		DATA	SUMMA	RY FOI	н тие	TING	₹ŖŢOD	BEGIN	NING 2	¥ n0:0	ND EN	OING 2	00:t	BASE	D ON 1	00. PER	CENT US	ABLE DA	ΤA		
i	CUANL	L 99 .	L 95	1 90	1 80	77-77	2 - L 6	<u>3</u> - 7	7 7 8		-	1 02	ר הו	1		LEQ	LEPS	L516	IdN	INI	
	- 2	62.2 50.1	64.3 51.6	65.3 52.2	66.H 53.U	68. (53.]	0 68. 7 54.	9 69. 3 54.	7 70. 9 55.	5 71. 7 56.	4 72 5 57	4 74 7 59	- 6 8	7.1 2.1	81.2 66.9	72.0 57.2	7.1 4.4	3.9 3.8	81.9 66.8	72.3 52.3	
		DATA	SUMMA	RY FOI	R THE	TIME	ER100	BEGIN	NING 2	1:00 A	ND EN	DING 2	2:00	BASE	T NO O	00. PER(CENT US	ABLE DA	ĮA		
	CHANL	L 22	L 95	L 90	L 90	57-7-	0 - T - Q	3 1 0	<u>9</u> – 1	ولل	1 0	20 L.	ד מו	5		LEO	LEPS	<u>-LSIG</u>	NPL	INI	
	- 2	51.2	64.7 52.3	65.9 53.1	67•2 54•3	68.1 55.0	68. 55.	9 69. 7 56.	6 70. 5 57.	4 71. 3 58.	3 72	4 74 9 61	. 4 . 1 . 6	3.9 8.0	80.4 67.5	71.7	9.6 1.6	Э.7 Т.4	81.2 69.2	69.9 57.6	
	15 HOU	IRS OF L	IMT TYA	11																	
		DATA	SUMMA	RY F01	н тис	I IME	Ł K I OD	REGIN	9N I NG	7:00 A	ND ÊNI	DÍNG 2	2:00	UASE	D ON 1	00. PERI	CENT US	ABLE UA	1 A		
	CHANL	L 99	1-95	L 90	<u>г</u> 1	57- 1 -	<u> 6</u>	2 - L - 2	0 L 4	6 - 1 - 0	1 1	20 L-	ר מנ			LEO	LEPS	L516	NPL	TNT	
	: 	63.9 51.6	66.2 53.2	61.5 54.2	69 • 1 55 • 4	70.2	51.	3 72. 1 57.	1 72. 9 58.	9 73. 7 59.	8 75 7 61	1 63	.3 6	9.5 5.3	83.8 67.6	74.4 59.9	5.4 2.6	4 • P	84.9 70.7	77.0	,)
																					ę

15

CONCLUDES MAY 20, 1976, 5:20

	TABL	TABLE 2 (continued) MAY 20, 1976, 23:10			37
	12 ON	12 ONE-HOUR RUNS			0¢
		DATA SUMMARY FOR THE TIME PERIOD BEGINNING 23:10 AND ENDING 100 BASED ON 100. PERCEN	USABLE DA	IA	
	CHANL	CHANL -L-22 -L 25 -L 22 -L 32 -L 50 -L 50 -L 50 -L 50 -L 30 -L 20 -L 12 -L 5 -L 1 -LE0 -1	ES LSIG	NPL	INI
•	5 - 2	1 58.9 60.9 62.4 64.2 65.4 66.4 61.4 68.3 69.4 70.9 73.6 75.9 80.2 70.5 2 46.9 48.2 49.0 50.2 51.2 51.9 52.7 53.7 54.8 56.3 58.9 61.4 64.5 55.8	4 4 8 9 4 4 8 9 4 4 8	82.9 68.2	77.1
		DATA SUMMARY FOR THE TIME PERIOD BEGINNING :00 AND ENDING 1:00 BASED ON 100. PERCEN	USABLE DA	ΤA	
	CHANL	CHAML -L 22 -L 20 -L 30 -L 30 -L 50 -L 50 -L 50 -L 30 -L 20 -L 10 -L 5L 1 -LEQ -1	<u>9121 29</u>	NPL	INI
	- 2	1 54.8 57.1 58.7 60.6 62.1 63.5 64.7 66.1 67.5 69.1 71.8 74.6 79.6 68.9 2 43.5 45.1 46.0 47.5 48.7 49.7 50.7 51.8 53.1 55.0 58.5 61.7 70.1 56.2	1.9 5.6 1.9 6.1	83.2 72.0	81.3 66.2
		DATA SUMMARY FOR THE TIME PERIOD BEGINNING ISOU AND ENDING 2:00 BASED ON 100. PERCEN	USABLE DA	ΙA	
1	CHANL	CHANL L 22 L 22 L 20 L 00 L 20 L 50 L 50 L 30 L 20 L 20 L 20 L 20 L 20 L 20 L 2	<u>8121 29</u>	- NPL	INI
6	- 0	1 51.2 53.0 54.3 50.6 50.4 60.2 61.6 63.2 64.9 67.4 71.4 75.3 80.7 68.7 2 41.2 42.7 43.8 45.4 46.8 40.5 50.3 52.5 55.5 61.8 70.2 70.2 70.3 62.5 Ch. 2, 01:00 to 01:30, 15 dB excess, interference of 2 way radio.	4 7.6 1.7 15.6	80.3 102.4	92.6
	8 - -	DATA SUMMARY FOR THE TIME PERIOD BEGINNING 2:00 AND ENDING 3:00 BASED ON 100. PERCEN	USABLE DA	ΙA	
	CHANL	CHANL L 22 L 22 L 30 L 30 L 30 L 50 L 50 L 50 L 40 L 30 L 20 L 10 L 5 L 1 L 1 L 50 L 10	5121 ST	TAN	INI
	- 2	1 50.7 51.9 53.1 55.4 57.0 58.7 60.2 61.9 03.9 66.3 70.5 74.5 79.9 67.9 2 2 37.9 39.3 40.4 42.2 43.3 44.4 45.8 47.4 49.6 52.2 57.1 60.8 64.7 53.4 1	1.8 1. 6.8 E.	88.6 75.9	92.9
		DATA SUMMARY FOR THE TIME PERIOD REGINNING 3:00 AND ENDING 4:00 BASED ON 100. PERCEI	I USABLE DA	1 A	
	CHANL	CHANL L-22 L-22 L-32 L-32 L-52 L-52 L-52 L-32 L-22 L-12 L-22 L-12 L-22 L-12	9121- SY	NPL	INI
	<u>– N</u>	1 50.6 51.7 52.5 54.3 56.0 57.6 59.2 61.0 62.9 65.7 69.9 73.5 78.9 66.8 2 37.6 38.7 39.4 40.6 41.9 42.9 44.2 45.9 48.1 50.7 54.2 57.3 61.8 50.9	1.7 8.4 1.9 7.8	88.2 70.9	91.9 68.5
		DATA SUMMARY FOR THE TIME PERIOD BEGINNING 4:00 AND ENDING 5:00 BASED ON 100. PERCE	L USABLE DA	1 A	
	CHANL	CHANL + 32 1 25 - 1 30 + 30 + 10 + 10 + 50 + 50 - 1 40 + 30 + 20 + 10 + 5 + 11 - 150 -	9121 2 <u>3</u> 3	NPL	-INI-
	- 2	1 52.6 54.1 55.3 57.2 50.7 60.4 62.1 63.7 65.9 68.4 72.2 75.5 80.8 69.1 2 40.4 41.9 43.5 45.5 46.8 47.8 48.9 50.2 51.9 53.9 57.1 60.3 66.2 54.4	0.0 8.0 3.5 6.4	89.5 70.8	92•9 68•2

MAY 20, 1976, 23:10 CONTINUED

	INI	91.9 66.0		INI	71.4 58.1	:	IMI	69.4 65.2		INI	68.5 62.6		INI	73.4 55.0		INI		65.6 54.2
۲	NPL	87.8 70.0	<	NPL	83.7 71.2	A	- NPL	82.6 73.4	٩	NPL	82.9 73.5	A	NPL	85.2 68.8	~			83•3 64•6
BLE DAT	<u>1516</u>	6.0 4.8	BLE DAT	1516	3.4 3.8	BLE DAT	151 6	3.4 4.6	BLE DAT	1516	3.3	JLE DAT	1516	3.8 3.4	ALE DAT			2°8 3'2
ENT USA	TEPS	8.6 6.0	ENT USA	LEPS	3.4 3.1	ENT USA	LEPS	2.6 3.2	ENT USA	LEPS.	2.1	ENT USA	LEPS	2•5 3•8			-	1.1
0. PERC	LEQ	12.3	0. PERC	LEQ	74.9 61.4	0. PERCI	i.E.Q	73.9 61.7	0. PERCI	LEO	74.5	0. PERCE	LEQ	75.5	0 - PENCE		-	16.1 60.6
D 0N 10		82.7 66.9	D 0N 10	-1-1-	83.8 70.2	D 0N 10		81.7 70.2	01 N0 0	<u> </u>	81.8 70.2	D ON 10		83.5 69.8	U UN U			4.68
0 BASI	<u>-</u>	78.6 63.4	0 BASI	L 5 .	79.8	0 BASE	L 5 -	18.5	0 HASE	L _5_	79.0 66.6	0 BASE	L 5 -	80.3 64.5	AASE			80.1
16 6:0	1-10	75.8 61.0	1:0	L_10	77.5	0:8 9	1 10	76.7 65.2	6 9:0	1 10	11.2	6 10:0	1 10	78.5 62.5	9 11:00			78.4
C ENDIN	L-20	73.1	ENDIN	L_20	75.5 62.2) ENDIN	L 20	14.9) ENDIN	1 20	75.3	ENDIN	L 20	76.7 60.8	ENDIN			16.1
:00 ANI	1-30	71.0	:00 AN	01_1_	74.5 60.9	:00 ANI	L_30	13.8	OU ANG	L_30	14.3	: 00 ANE	<u>16</u>	75.5	JAA 00:	07		15.9
IING 5	1- <u>40</u>	69.6 55.8	9 9NII	L 40	13.8	1 901	L 40	73.0	1NG 8	44	73.6 58.6	146 9	-L 40	74.5 58.9	1 NG 1 0	04 1		75.3
BEGINN	1 -L-50	1 68.1	DEGINN	1 -L-50	1 59.3	BEGINN	1 L 50	1 72.4 3 59.3	BEGINN	<u>1-50</u>	73.0	BEGINN	L 50	58.1	HEGINN	1 50		74.8 58.5
PERIOD	<u>1 6(</u>	7 66.4 5 53.7	DER100	55- - - 0	5 72.4 1 50.7	DER10D	09 T 0	0 71.1 3 58.3	JER100	1 - 60	2.56.9	1410D	<u>1-1</u>	1 51.4	10D	04		57.9
1 IME	1 - 1	7 64. 2 52.9	TIME	ם -1-זו	7 71.0 3 58.	TIME	ח ד מ	3 57.	TIME P	ה -ר-זנ	5 56.8	1 INE F	0 -T-10	4 72.3 0 56.7	TIME			4 73.5 9 57.4
OH THE	9 T 8	4 62. 3 51.	OR THE	0 -L-8	6 70. 2 57.	OR THE	а т п	1 70. 2 56.	OK THE	0 T 0	1 71. 6 55.5	OR. THE	n - L - 8	2 71.	OK THF	0	4	1 73.4 0 56.6
MARY F	5 - L -2	8 60. 1 49.	MARY F	5 -1 - 2	7 69 .	MARY F	5 -L-9	2 69. 1 55.	МАНҮ FI	7 7 č	2 70.	4ΑΡΥ Ε(5 - L - 20	3 70.0	40RY F(6		12.
TA SUM	2 T 9	2 58. 1 48.	TA SUM	2 T 2	2 68. 25.	TA SUM	2 - 1 - 2	8 68 54	TA SUM	<u>2</u> 1 2	5.69.1	IA SUMI	2 - L 95	69.0	AMUS A			55.4
DA	L_L_2	55. 46.	DA	L_L_2	66. 54.	DAT	. 1. 2	66.(51.4	DAI	-T	67.4 52.5	DAT		67.5	1 A U	66		70.5
	CLIAN	- ~		CHANI	- 2		CHAN	- ~		CHAN	- 2	ø	CHAN	- ~		CHAN		- N
								t.		:								

17

MAY 20, 1976, 23:10 CONTINUED

8 HOURS OF NIGHTTIME

103.5 88.0 90.3 17.8 DATA SUMMARY FOR THE TIME PERIOD BEGINNING 23110 AND ENDING 7:00 BASED ON 100. PERCENT USABLE DATA 7.6 7.7 11.6 14.5 50.0 52.6 54.8 57.9 60.5 62.6 64.7 67.0 69.2 71.6 74.5 76.8 81.5 70.8 37.6 40.2 42.2 45.2 47.5 49.5 51.4 53.3 55.6 58.1 61.2 64.2 70.3 58.2 - ~

CONCLUDES MAY 20, 1976, 23:10

MAY 24, 1976, 14:15

.

3 ONE-HOUR RUNS

	INI	73.0		INI	68.8 57.0		TNI	67.4 49.8	
, Y	NPL	86.6 66.3	¥	NPL	84.6 69.8	ſĂ	NPL	84.6 66.7	
BLE DÀI	1516	3•3 3•1	BLE' DAT	1516	0.6 2.4	IBLE DAT	1510	2.8 3.2	
ENT USA	5731-	2.1 1.8	ENT USA	LEPS	2.5	ENT US	LEPS	2.2 1.9	
DO. PERC	LEQ	78.1 58.4	DO. PERC	LEQ	16.9	91. PERC	LEQ	77.5	
ED ON 10	L-L-	85.0 65.5	ED ON 10	T T	84.2 65.5	ED ON	L.L	84.9 65.5	
0 BAS	L 5	82.5 62.8	0 BAS	L 5.	81.2 64.5	6 BAS	<u> </u>	81.3 63.3	
6 15:0	1_10	80.9 60.9	6 16:0	1.10	79.3 62.5	6 16:1	L_10	79.8 61.0	
ENUIN	L 20	19.2 59.2	ENDIN	L 20	77.8 60.2	ENDIN	L-20	78.3	
15 AND	L 30	78.2 58.3	0.0 AND	L 3ù	16.8 58.8	OU AND	L_30	77.5 58.1	
NG 14:	L 40	17.4 57.6	NG 15:	1 40	76.1	NG 16:	L 40	76.8 57.4	
EGINNI	L 50	16.1 56.9	EGINNI	L 50	75.5	EGINNI	i 50	76.3 56.9	
A100_6	L 60	16.1	RTOU ^D	L 60	74.9	R100 B	1 60	75.7 56.4	
1 ME_PE	1_70	75.4 55.8	I ME "PE	L_10	74.3	ÌMÉ ₽Ë	L_70	75.2	
THE T	1 80	74.7 55.2	1 HE 1	L 80	73.1	THE	1 80	74.7	14:15
RY FOR	L 90	73.6 54.4	RY FOR	L_90	72.8	RY' FOR	L 90	6-EL	1976,]
SUMMA	L 95	12.6 53.7	SUMMA	L 95	71.9	SUMMA	L 95	73.2	К 24 ,
DATA	L 99	70.7 52.7	DATA	L 99	70.0	UATA	L 99	72.1 53.6	DES MA)
	CHANL.	- ~		CLIANL	1 2		CHANL	- ~	CONCLU
An and some of	i I I	1				al - 1.1 When			

3707

24 ONE-HC	UR RUN	ŝ					2	AY 24,	1976, 1	7:00							00	100
		DATA SU	IMMARY F	OR THE	TIME PE	R100 BE	GINNING	00:11	AND END	100 18:	00 BAS	ED 0N 1	00. PER	ICENT US	ABLE DA	ĮA		
CHANL L	- 99	L_95	L_20	L_80	110	L 60	L 50	L 40	<u>16</u>	L_20	1_10	L 5		LEO	LEPS	1516	J AN	-INI
	58.2	70.2	71.3	72.3	73.0	73.6 48.6	74.1	74.6 50.7	75.1	76.0	77.5 60.2	79.3	82.7 64.3	15.3	2.3	2.6 8.4	82.0 76.8	65.4 73.3
		DATA SU	ИМАНУ F	OK THE	TIME PE	R100 BE	<u>6 I NN I NG</u>	18:00	AND END	100 19:	00 BAS	ED ON 1	00. PEA	ICENT US	ABLE DA	ĮĀ	1	
CHANL L	- 99	L_95	L 20	L_80	L_10	L-60	L-50	L 40	L_30	L_20	L.10	г 5 Г		LE4.	LEPS	1516	NPL	-INI
2 4	56.6 13.8	68.5 45.1	69.5 45.0	70.8 46.7	71.8	72.6	13.3	14.0	14.1 51.3	75.6	77.4 58.7	19.1	83.0 64.3	14.9 54.5	а.е 9.0	3.2	83.1	71.2
		DATA SU	IMMARY F	OH THE	I I ME PE	R100 BE	GINNING	19:00	AND END	ING 20:	OC BAS	ED ON 1	00. PEA	ICENT US	ABLE DA	ΙA		
CLIANL L	- 99	L_25	L_ 20	L 80	L_70	L_60	i. 50	L_10	L_30	L_20	110	L.5.	L.L.	LEQ.	LEES	1516	NPL	-INI
	54.1 16.5 11. 2,	66.7 47.9 19:00	68.0 49.1 to 24:00	69.6 50.8 J, 6.5	10.8 52.3 dB exce	11.1 53.9 55, Spa	72.5 55.5 nish rac	73.2 57.2 110 inte	74.0 59.2 Srferenc	74.9 61.4	76.9	0.61	4.68 4.9	14.3 58.8	4.7 2.7	3.4 6.B	1.69	4.EL
	_	DATA SL	IMMARY F	OR THE	TIME PI	ERIUD B	EGINNING	20:00	AND EN	ING 21	100 BAS	SED ON	100. PEF	CENT US	ABLE DA	IA		;
CHANL L	- 22	<u>1.95</u>	L 22	<u>L 80</u>	L 70	L 60	121	L 49	L_30	1.20	L_19_	L -5	ר	LEQ	LEPS	1516	NPL.	INI
	5.6	65.8 46.8	67.1	68.8 49.0	70.0	70.9	71.8	72.5 52.8	13.3	74.4 56.0	76.3 59.3	18.1 62.1	83.1 64.3	73.8 55.4	5.0	3.5	82.8 69.9	74.0 64.2
		DATA SU	JMMARY F	OH THE	TIME P	R100 B(9 I NN I NG	21:00	AND ENL	11NG 22	100 BAS	5ED 0N 1	100. PEF	CENT US	ABLE DA	1 A		
CHANL I	- 99	L_95	L_20	L_02	11	L 62	L.50	L 40	1.30	L_29	L_12	L 5	ב	LEQ_	LEPS	1516	NPL_	INI
1 (10.1	65.6 41.0	66.9 41.5	68.4 42.4	69.8 43.2	1.01 1.01	71.5	12.2	13.0	74.1 50.6	76.1	78.9	83.5 64.3	13.8	6.8 15.7	3.6	83.1 72.1	13.1
		DATA SU	JMMARY F	OR THE	TIME PE	R100 BE	61 NN I NG	22:00	AND ENC	11NG 23	00 BAS	SED ON 1	100. PEF	CENT US	ABLE UA	ŢĂ		
CHANL L	-22	L 25	L-99	L 80	L 19	L 60	L 59	44	L 30	L-20	שרי	5 1	Ţ	LEQ	LEPS	<u>1516</u>	TAN	TNI
	0.1	63.6 42.1	65.2 42.7	67.0 43.4	68.4 44.0	69.8 44.5	70.8	71.8	12.8 46.5	14.0	76.3	79.1	03.6 62.2	73.6	1.1	5.1	84.7 64.6	79.6 51.8

MAY 24, 1976, 17:00 CONTINUED

L12 L5. L1 LEQ LEPS L51G NPL INI-	75.2 78.2 83.3 72.8 9.8 4.5 84.3 77.9 58.2 62.0 64.2 55.2 5.0 4.3 66.3 69.9	10 BASED ON 100. PERCENT USABLE DATA	L.12 L.5. L.1. LEO. LEPS LSIG NPL. INI.	74.5 77.2 83.5 71.8 15.4 5.9 87.0 85.0 50.4 51.8 54.6 47.7 6.2 3.4 56.3 43.6	10 BASED ON 100. PERCENT USABLE DATA	LIQ L5 LI LEQ LEPS LSIG NPL INI	74.6 80.3 84.2 72.4 20.1 8.4 94.0 95.0 49.2 51.1 55.2 46.9 19.1 4.1 57.3 47.3	<u> 10 BASED ON 100. PERCENT USABLE DATA</u>	LIQ LS LI LEQ LEPS LSIG NPL INI	<u>16.2 82.5 84.3 1</u> 3.2 17.8 10.3 99.6 102.8 55.1 57.1 62.7 51.2 12.2 7.0 69.2 66.5	00 BASED ON 100. PERCENT USABLE DATA	LIQ L5 LI LEQ LEPS LSIG NPL INI	82.5 83.2 85.5 75.4 12.1 15.2 114.4 133.4 49.6 51.2 54.2 46.5 13.8 4.2 57.3 50.6 out 60 seconds.	10 BASED ON 100. PERCENT USABLE DATA	LIQ L.5. L.J. LEQ. LEPS LSIG NPL INI.	
LEPS LSI	9.8 5.0 4.	ISABLE VATA	LEPS LSI	<u>15.4 5.</u> 6.2 3.	JSAULE DATA	LEPS LSI	20.1 8. 19.1 4.	JSABLE DATA	LEPS LSI	17.8 10. 12.2 7.	JSABLE DATA	LEPS LSI	12.1 15. 13.8 4.	JSABLE DATA	LEPS LSI	
1 LEQ	3.3 72.8	PERCENT (1 LEO	3.5 71.8 1.6 47.7	PERCENT 1	T LEQ	46.94 5.2 46.9	• PERCENT	L LEQ	<u>2.1 13.2</u> 2.1 51.2	. PERCENT	1 LEQ	<u>5.5 75.4</u> 4.2 46.5	PERCENT	L LEU	
L 5 L	78.2 83 62.0 64	SED ON 100.	<u> </u>	71.2 B	SED ON 100.	L 5 - L	80.3 84 51.1 56	SED ON 100	LEL	82.5 8 57.1 6	SED ON 100	LEL	B3.2 85 51.2 54 0 seconds.	SED ON 100	L.5. L	
8 L-19	0 75.2 9 58.2	1:00 BAS	0 L 10	5 74.5 8 50.4	2100 BAS	0 - 10	2 74.6 2 49.2	3:00 BA	1 1 0	5 76.2 0 55.1	4:00 BA	0 L 10	9 82.5 6 49.6 r about 6	5:00 BA	10 1 10	
30 1 2	71.7 73. 55.5 55.	40 ENDING	- <u>30 L 2</u>	59.8 71. 47.7 48.	VD ENDING	30 1 2	57.7 70. 45.8 47.	ND ENDING	2 1 0 6 1	67.2 70. 48.9 51. ast.	ND ENDING	1 30 1 2	68.4 72. 46.3 47. haywire fo	ND ENDING	1 30 1 2	
4 48	70.5	6 :00 A	L 49	68.2 46.9	G 1:00 A	1 40	65.6 44.9	16 2:00 A	L-40	64.8 47.3 ing from E	10 3:00 A	L 40	65.3 45.1 Lights go	16 4:00 A	L 40	
10 F 50	3 69.4	BEGINNIN	<u>0</u> L 50	6 66.9 3 46.1	BEGINNIN	10 F 50	3 63.8 0 43.9) BEGINNIN	10 L 50	6 63.0 2 46.1 train comi) BEGINNIN	<u>02 0</u> 3	1 63.0 1 44.2 at 04:30 1	D BEGINNIN	1 L 50	
10 L G	67.2 68. 47.6 49.	IME PERIOC	10 1 6	64.2 65. 44.1 45.	IME PERIOC	24 91	61.0 62. 42.2 43.	IME PERIO	1 10 1-1	60.2 61 44.3 45 excess,	IME PERIO	r 10 r 4	59.8 61 42.0 43	IME PERIO	- 10 F	
L 44	65.9 45.8	FOH THE T	1- <u>66</u> -1	62.7 43.8	FOH INE T	L-80 1	59.6 (41.2	FOR THE T	L 80	58.7 42.9 30, 5.5 dB	FOR THE T	L 00 1	58.1 40.6 10, 7.5 dB	FOH THE T	L- 80 1	
5 L 40	1 64.3 44.3	SUMMARY	5 L 20	6 61.0 9 42.7	SUMMARY	5 L 20	7 57.8 8 39.6	SUMMARY	5 1-20	1 57.3 3 41.2 00 to 03:0	SUMMAHY	5 L_20	1 55.5 3 39.2 00 to 05:0	SUMMARY	5 L 90	
L 99 L 9	60.8 63. 41.9 43.	DATA	<u>- 23 L 2</u>	57.6 59. 40.4 41.	DATA	- 33 1-3	54.8 56. 37.4 38.	DATA	L-22 L-2	54.4 56. 39.4 40.	DATA	L-92 L-2	52.8 54. 37.1 38. Ch. 1, 02:1	DATA	L 99 L 9	
HANL	- 2		HANL	7		HANL	- 2		TNTH	2		HANL I	- 2		HANL I	

	NPL1N1 88.7 92.7 58.9 46.8	<u>NPL INI</u> 85.8 75.6 61.6 43.3	141	<u>NPL</u>	<u>NPL INL</u> 14.0 75.9 73.5	NPL INL 89.2 81.0 73.4 81.0
VIA	L516 6.1 3.0	VIA LS16 3.5 2.7	1A LS16 3.4	TA 1510 4.0 8.4	1A 1516 8.6	1A 1516 8.0
SABLE DA	LEPS 13.1 3.6	SABLE U/ LEPS 3.4	AHLE DA LEPS 3.2 8.5	5 <u>48LE DA</u> LEPS 3.5 9.5	SABLE DA LEPS 10-2	548LE_0A LEPS3.9 13.1
RCENT U	LEU 73.2 51.1	RCENT U LEQ 76.9 54.1	ACENT US	RCENT US	LEO LEO 54.5	RCENT US LEO 76.0 53.1
100. PE	64.5 58.0	100. PE L 1 84.8 63.9	100. PEF L. L 64.2	100. PE L 1 64.5 64.3	100. PEI L 1 64.2	100. PE L 1 85.5 64.2
VSED ON	L 5 54.9	L 5 B1.7 58.3	SED ON 19.7 58.0	SED ON L 5 81.1 62.4	5ED ON L 5 63.5	5ED ON L 5 82.3 61.2
100 BA	L_10 53.7	19.8 19.8 56.4	11.1 54.9	:00 BA L 10 79.2 58.7	:00 8A L 10 58.5	:00 BA L 10 80.4 56.3
401NG 6	L_20 73.2 52.3	401NG 7 L 20 77.8 55.0	D1NG 8 L 20 76.0 52.1	01NG 9 L 20 53.0	01NG 10 L 20 78.1 53.4	01146 11 L 20 50.8
U AND EN	L 30 71.5 51.4	U AND EN L 30 54.1	AND EN L 30 74.9 51.3	AND EN L-30	AND EN L 30 50.9	AND EN L 30 76.3 48.7
46 5:01	L 40 69.8 50.6	VG 6:00 L 40 53.5	6 7:00 L 40 50.3	16 8:00 L 40 75.1	16 9:00 L 40 76.2 49.1	16 10:00 L 40 75.1 47.2
BEGINNI	L 50 60.3 49.8	BEGINNII L 50 53.0	EGINNIN 13.4 13.4	L 50 L 50 74.1 47.9	L 50 L 50 75.5 47.8	EGINNIN L 50 74.2 46.1
PER100 1	L 60 66.8 49.1	PER100 60 52.6	ERIUU U L 64 72.8 48.1	ектор е L_69 73.0 47.1	VER100 F L 60 74.9 46.6	13.4 15.4 15.4
E TIME I	L 10 65.0 48.5	L 10 L 10 52.1	11ME P L 70 72.1	11ME F L 70 72.1	L 10 L 10 45.6	11ME F L 70 72.6 44.6
FOR TH	L-80 63.0	F0k TH L_ <u>80</u> 51.6	FOR THE L. BU 11.2 46.1	FOR 1116 L <u>80</u> 71.2 45.6	FOR THE L_B0 73.3	F <u>OR TH</u> E L <u>80</u> 71.6 43.9
SUMMARY	L 20	SUMMARY L_20 50.8	- 10.2 45.2	SUMMAHY L 20 10.2 44.6	УМАМАКУ 122.1 1.5.1 5.64	SUMMARY L 20 10.2 42.9
()ATA	L 25 58.8	DATA L.95 50.0	DATA 5 L 95 69.5 44.5	UATA 1	0ATA L_95 1.2 42.8	0ATA 1.95 68.7 42.2
	L 99 56.6	L_99 67.0 48.9	L 99 68.3 42.9	L 99 67.9 42.8	L <u>9</u> 2 69.0 41.9	L 99 66.5 41.1
	NANL 2	2 2 7	CHANL 2	CHANL 1 2	CHANL 2	<u>сна</u> мь. 1 2

MAY 24, 1976, 17:00 CONTINUED

4 !	CHANL.	L 99	L 95	L 20	μ. <u>θ</u> ί	L 19	L 69	L 50	1 40	L-32	1 20	L_10		L.L.	LEQ U	LEPS	L516	IdN	TNI
1	1 2	67.4 39.2	69 . 5 40.3	70.4	71.6	12.6	73.4	74.1	75.0 45.4	76.0	17.6 47.8	80.2 52.0	82.1 55.7	85.6 61.5	76.7 49.6	4.0	<u>4.7</u> 5.7	88.8 64.3	79.6
1			DATA S	UMMARY	FOR TH	E TIME F	PER100 B	EGINNIN	5 12:00	AND EN	ING 13	00 BAS	ED ON	100. PEF	CENT US	SABLE DA	1TA		
i	CHANL	L 92	L 95	L 20	L_00	L-10	L-69	L 50	L 40	L-30	L 20	L_10	L 5	TT	LEO	LEPS	1510	NPL	TNI
i	2	66.1 39.6	68.5 41.3	69.69 42.3	71.3	72.3	13.3	74.1	74.9	15.9	17.5	80.0 52.6	81.8 55.9	85.3 63.1	76.5	4.0 15.5	5 .0	88.3 63.3	80•6 53•4
	;	and recome the set of the second	DATA SI	UMMARY	FOR THE	TIME P	ER100 BE	9 I NN I NG	00:61	AND END	14:	00 BAS	ED ON 1	00. PER	CENT US	ABLE DA	TA	-	
	CHANL	L 92	L- 25	L 20	L 80	L 70	L 60	L 50	<u>9</u>	1_30	L 20	110	L 5.	1	LEQ	LEPS	1516	NPL	-INI
	1 2	69.2 41.3	10.6	71.7	72.8	73.6	1.74	75.1	15.8	76.7	77.9	80.2 56.5	82.2	85.7 64.3	53.2	3.3	4 . U 6 . 6	87.3	75.6 66.2
			DATA SI	UMMARY	FOR THE	11ME P	ER100 B	<u>91 NN 1 NG</u>	14100	AND END	11NG 151	00 BAS	ED ON 1	00. PER	CENT US	ABLE DA	IA		
	CHANL	L 99	L 95	L 20	L 80	L 10	L-60	L 50	L 40	L 30	L 20	L_10	L 5	Ţ	LEQ	LEPS	L519	NPL_	INI.
: 1	-1	70.3 40.8 Ch. 1,	12.0 42.8 14:00	12.9 43.8 to 16:	74.0 45.1	14.9 46.0	15.7 46.6	16.6 47.4 25 to 15	77.5 48.4 5:10 jac	79.0 49.8 `khammer	81.1 52.6	64.8 58.6 near m	86.5 62.2 ike, pe	87.1 64.3 Pred SL	80.0 54.1 M	3.6 10.2	6.4 8.7	96.4 76.3	90.5 72.8
ı			DATA SI	UMMARY	FOR THE	TIME P	ERIOD B	6 I NN I NG	15:00	AND END	ING 16:	00 BAS	ED ON 1	00. PER	CENT US	AULE DA	I A		- -
	CHANL	L-99	L_ 25	L_20	L_82	1_10	L 60	L 50	1 40	L 30	L 20	110	L5	T	LEO	LEPS	1516	IdN	TNT
1	2	69.4 43.2	70.9	11.9	13.2	74.0	14.8	75.5	16.3	11.5	79.8 54.6	85.1 61.4	87.0 64.3	87.1 64.3	79.5 55.6	4.8 8.6	10.2	98.8 81.6	94.6 80.0
, I			DATA SI	UMMARY	FOR THE	T IME P	ERIOD RE	GINNING	16:00	AND END	ING 17:	00 BASI	ED ON 1	00. PER	CENT US	ABLE DA	ŢA	•	
-1	CHANL	L_ 22	L 25	L 90	L_42	L_10	L 60	L 50	1 40	1_30	1-20	1 10	L 5		LEQ	1.625	L516	TAN	INI
•	-~~	69.7 43.4	71.7	12.5	73.5	74.1	14.6 48.6	75.0	75.5	76.0 52.4	76.7 55.6	78.2	19.1	82.8 64.3	76.0	1:7	8 • 5 8 • 5	82.4 76.5	65.2 74.4
																			371

Tan	88.5 71.2			NPL	94.4 l 67.2
11A L519	4.9 6.9		ΙA	L516	1.8
ABLE DA LEPS	6.4 10.4		ABLE DA	LEPS	10.5
CENT US	75.9		CENT US	LEO	74.4
00. PER	85.9 64.3		00. PEH	L L	84.6 62.6
ED ON 1	82.2 60.9		ED ON 1	L 5.	82.5 56.2
00 BAS	79.2 56.7		00 BAS	L_10	· 78.1 54.8
L 20	76.5 53.2		01NG 7	L_20	74.5 52.3
ANU END	75.1 51.0		AND ENL	L_30	72.2
17:00 L 40	74.0		; 22:00	L_40	10.2
61NNING L_50	72.9		6 I NN I M	L. 50	68.1 46.8
н10D ВЕ L 60	71.8 46.7	•	H 100 H	L_69	66.0 45.6
ТІМЕ РЕ L_20	70.2		I INE PI	11	63.8 44.5
0К ТНЕ <mark>L <u>80</u></mark>	67.1 44.4		±0.н ⁻ ТнЕ	L_80	6].6 43.2
ЈММАНТ F L 90	63.0 42.7	[1]	JMMARY I	L_90	58.9 41.5
DATA SI L 95	60.0 41.4	IGHTTIM]	DATA S	L_95	57.2 40.1
L _ <u>99</u>	55.8 39.2	KS OF N		L_92	54.3 38.1
24 HOU	1	9 НОИ.		CHANL	- ~

CONCLUDES MAY 24, 1976, 17:00

TABLE 2 (continued)

\sim
J
61
<u>ج</u>
د
•
+-
G
0
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
U
$\sim$
$\sim$
6.1
┝╍╍┥
щ
~
~
· • •

MAY 25, 1976, 17:30

**3 ONE-HOUR RUNS** 

	INI	66.8 82.3		INI	68.3 71.6		INI	69.3 64.0
	NPL	81.0 85.9		TAN	82.2 78.4		TdN	82.5 75.8
ΤA	L516	2.7 8.3	ιTA	1516	2.9 6.3	TA	L516	2.7
ABLE DA	LEPS	2.4 2.1	ABLE DA	LEPS	3.5 3.6	ABLE DA	LEPS	2.0
CENT US	LEO	74.0	CENT US	LEO	14.7 62.2	SCENT US	LE0	75.5 61.2
00. PEH	L. L.	81.5 69.1	100. PEF	F	82.2 69.1	100. PEA		82.9 69.1
ED UN 1	L 5	78.3 69.1 ation.	SED ON	<u>г 5</u>	19.2	SED ON	L 5	19.8 69.0
00 BAS	<b>11</b>	76.3 69.1 er oper	00 BAS	L_12	77.1 66.8	29 BAS	L_10	71.9
ING 18:	L_20	74.8 69.0 awn mow	100 19	L_20	15.4 63.2	61 9NI	L_20	76.4
AND END	L_30	74.0 67.1 ue to 1	AND EN	L_30	14.5	AND EN	L_30	75.7 59.6
17:30	L 40	13.4 61.9 oaded d	18:00	L 40	73.9	00:61	L 40	75.1
6 I NN I NG	L_50	72.8 58.4 e overl	GINNING	L_50	73.3 58.7	GINNING	L 50	74.5 57.8
R100 BE	L 60	72.3 56.9 ss, tap	R100 BE	L_60	12.1 51.1	R100 BE	L_60	73.8 57.1
TIME PE	L_12	71.6 55.9 dB exce	TIME P	L_12	72.0 56.8	TIME PE	L_10	73.2 56.6
OH THE	L 80	70.6 55.3 10, 7.0	OR THE	L_80	71.2 56.1	-0H THE	L_82	12.2
IMMARY F	L_99	69.5 54.6 to 19:0	MMARY F	1 40	70.0	ИМАНУ В	L_20	10.8 55.4
DATA SL	L-95	68•4 54•1 17:30	DATA SI	L_95	69.0 54.6	DATA SU	L-95	69.8 55.0
	L 99	66.3 53.2 Ch. 2,		L 99	53.4	a ann a bha chuirtean an	L 99	68.0 54.3
	CHANL	-		CHANL	. 1 . 2		CHANL	- ~

CONCLUDES MAY 25, 1976, 17:30

37	14			INI	73.4	i.	TNI	67.4 61.1
			A	NPL	85.6 66.1	×.	NPL	82.2
			ABLE DAT	<u>1516</u>	9.6 9.4	ABLE DAT	1516	3.0 6.9
			CENT US	LEPS	6.0 9.2	CENT US	LEPS	3.7 15.0
			00. PER	LEQ	15.7 53.5	00. PER	LEQ	74.6 52.3
			5ED ON 1		83.4 64.4	60 0N 1	4 4	82.3
			0 BAS	L 5	80.2 59.3	0 BAS	<u> </u>	78.6 58.8
	00		6 16:0	1.10	78.4 55.8	6 17:0	1-10	76.7
	6 <b>,</b> 15:		ENDIN	1_20	76.3	ENDIN	L 20	75.1
	1, 1970		00 AND	L 30	75.1	00 AND	L 30	1.84
	, ANUL		NG 15:	L 40	74.2	VG 16:	140	73.5
			EGINNI	L 50 .	73.5	EGINNI	L 50	72.9
			100 81	L 60	72.9 48.6	100 81	1 60	12.4
			IME PEI	- <u>1</u>	72.2	ME PEI	L_70	71.8
			THE TI	1 80	71.4	116 11	L. 40	71.2
nued			R FOR	L 29 -	70.0	N FOR	L 90	69.9
conti		SNI	SUMMAF	L-25 -	68.8 43.8	SUMMAP	L 95 -	69.1 41.9
5 (1		IOUR RL	DATA	- 32	67.0 41.9	DATA	199	67.2 40.7
TABLE		2 ONE-h	•	CHANL	- 2		CHANL	<b>- -</b>

CONCLUDES JUNE 7, 1976, 15:00

$\sim$
Ð
Ū
Ц
•!
+
Ц
0
0
-
Ú
5
E 2 (
LE 2 (
BLE 2 (
ABLE 2 (

JUNE 7, 1976, 18:00

12 ONE-HOUR RUNS

	DATA	SUMMA	нү ғон	THE 1	TIME PI	ERI00	BEGINN	1NG 16	NE NO IN	ID ENDI	161 9N	00 BA	SED UN	100. PER	CENT US.	ABLE DA	IA	
CHANL	L 99	L-95	L_90	1-90	L_70	L 60	L 50	75 T	1.30	1 20	1.10	L 5		LEQ	LEPS	<u>9121</u>	THN	INI
L Z	64.4 40.6	66.1 41.9	67.2	69.0 43.8	70.07	70.8 45,8	71.4	72.1	12.9	54.8	76.8	79.6	84.1 64.3	74.2	6.3 9.0	4 • 2 8 • 6	6.48 76.3	15.5
đ	DATA	SUMMA	нү ғон	THE 1	I IME PI	<b>ERIOD</b>	BEGINN	ING 19	1:00 AN	ION ENDI	NG 20:	00 BA	SED ON	100. PER	CENT US	ABLE DA	ΓA	
CHANL	L 99	L 95	L 90	L 80	L_70	1 60	L 50	1-40	L_30	1 1 20	-T-10	<u> </u>		LEQ.	LEPS	L516	IdN	IMI
~ ~	62.6 38.4	65.1 39.4	66.5 40.1	68.3 41.1	69.4 42.0	70.3	71.2	71.9	12.9	2.45	80.1 53.0	83.6 57.1	85.5	76.0 50.4	8.2 16.1	7.1	93.9 68.6	91.2
	DATA	SUMMA	RY FOR	THE	I ME PI	ERIOD	BEGINN	ING 20	:00 AN	ID ENDI	NG 21:	00 BA	SED ON	100. PER	CENT US	ABLE DA	A I	
CHANL	L 99	1 95	-L-90	L_84	1.70	<u> </u>	L 50	1 40	1_1_30	1 20	110	-F-5-	T T	LEQ	573.1	1.516	NPL	INI
1 2	62 <b>.</b> 1 39 <b>.</b> 3	64.2 40.2	65•4 4 <u>0</u> •8	66.8 41.7	67.B	68.7 43.4	69.6 44.6	70.4	71.3	50.8	1.74.1	77.2	82.6 64.3	72.4	8.8 14.3	3•5 8•8	41.4 75.2	70.2
•	DATA	SUMMA	RY FOR	1 HE	IME PI	1 00 I H	BEGINN	ING. 21	100 AN	IO. ENDI	NG 221	00BA!	SED_ON_	100. PER	CENT US	ABLE DA	ΙA	
CHANL	L 92 .	L 95	-L-99	1.80	1_70	L 60	L 50	L 40	0E 1	1 20	1 10	- <b>L</b> -5-	-4-4-	TEA	LEPS	-L516	- NPL	INI
-2	0.14	63.4 42.2	64•6 42•9	66.2 43.8	67.3 44.5	. 68.3 45.2	69.2 45.9	70.1 46.8	71.2	72.8	80.0 52.8	83.4 55.9	84.5 64.3	75.1	9.5 18.3	8•5 •5	96.6 65.1	96.0 52.6
	DATA	SUMMA	HY FOR	1115	IME PI	R100 1	HE G I NN	ING 22	:00 AN	ID ENDI	IEZ DN	00 BA	SED ON	100. PERI	CENT US	ABLE DA	IA	
CHANL	L 99	L 95	L 20	-L-80	L 70	<u>L 60</u>	L_50	1 40	1 30	1 1 20	1 T 10	<u> </u>		-LEQ	LEPS	1516	Tan	INI
- ~	59.1 42.4	61.9 43.4	63.2 43.8	65•U 44•6	66.3 45.1	67.6 45.6	68.5 46.1	69.4 46.6	70.6	12.2	51.0	83.1 57.3	84 • 3 64 • 2	51.4	10.8 18.3	6.7 3.9	91.5 61.3	88.6 42.5
	DATA	SUMMA	кү ғон	THET	IME PE	H100 1	BEGINN	ING 23	100 AN	ID ENDI	80	00 BA	SED ON	100. PER	CENT US	ABLE DA	ΙA	
CHANL	L 99	L 95	-L-20	<u>L 40</u>	L_10	ــــــــــــــــــــــــــــــــــــــ	L 50	L 40	1 30	1 20	T-19	L.5.	-4-4-	LEQ.	LEPS	<u>9121</u>	NPL	INI
7	58.0 40.4	60.3 41.4	61.5	63.0 42.9	64.5 43.7	65.9 44.3	67.2 44.8	68.4 45.4	69.7 46.2	71.6	76.0	82.3 49.5	84.1 51.7	73.5	13.7 1.3	6•9 2•8	91.2 53.2	89.4 37.2

3715

TABLE 2 (continued)   JUNE 7, 1376, 18:00 CONTINUE     DATA SUMMARY FON THE THE FERIOD BEGINNING   100 M/D SUMMARY FON THE THE FERIOD BEGINNING	3716		INI	107.3 34.5		INL	124.3		INI	137.5		INI	140.0		INI	127.4		INI	100.9 66.3
TABLE 2 (CONTINUE)   JUNE 7, 1976, 18:00 CONTINUED     DATA SUMMAT FON THE THE PERIOD REGIMING 100 AND ENDING 1100 BASED ON 100, FERCHI USABL DA     DATA SUMMAT FON THE THE PERIOD REGIMING 100 AND ENDING 1100 BASED ON 100, FERCHI USABL DA     CHORL 1-29 1-35 1-39 1.40 1.70 4.50 47.3 45.3 45.3 45.3 45.3 45.3 45.3 45.3 45		I A	IdN	98 <b>.0</b> 52.9	I A	IdN	109.6	¥	NPL	115.8	A	TAN	118.7 59.1	۲ ا	- NPL	110.8	<	NPL	94.8
TABLE 2 (continued)   JUNE 7, 1976, 18:00 CONTINUED     DATA SUMMARY FOR THE THE PERIOD REGIMMING   100 AND ENDINE   100 AND ENDINE   100 PERCENT US     DATA SUMMARY FOR THE THE PERIOD REGIMMING   100 AND ENDINE   100 BASED ON 100 PERCENT US     CHORL L-92 L-93 L-90 L-171 L-60 L-171 L-160 L-15   43.5   53.5   73.7   13.5     2   25.6   57.7   53.5   43.5   54.5   53.7   13.5   44.6     2   25.6   57.7   53.5   43.5   54.5   56.7   55.7   53.7   13.5     2   25.6   55.7   57.7   53.7   53.7   53.7   13.5     2   25.6   55.7   55.7   54.5   56.7   55.7   54.7   55.7   54.7   55.7   54.7   55.7   54.7   55.7   54.7   55.7   54.7   55.7   54.7   55.7   54.7   55.7   54.7   55.7   54.7   55.7   54.7   55.7   54.7   55.7   54.7   55.7   54.7   55.7   54.7   54.7   55.7   54.7   54.7   54.7   54.7   54.7		ABLE DA	1516	9 • 8: • 8: • 8:	ABLE DA	<u>-1516</u>	13.9 4.0	BLE DA	1519	15.9	VBLE DA	1516	17.0	BLE DA	1516	14.6 5.3	BLE DA	<u>9121</u>	8.0 6.1
TABLE 2 (continued)   JUNE 7, 1976, 18:00 CONTINUED     Intervent For THE THE PERIOD BELINHING TO AND ENDING TOO BASED ON 100, FER     Intervent For THE THE PERIOD BELINHING TO AND ENDING TOO BASED ON 100, FER     1   50:5   51:5   51:0   50:5   50:1   51:0   50:5   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   50:1   5		CENT US	LEPS	13.4 15.5	CENT US	LEPS	14.8 24.0 nput.	ENI USA	LEES	10.6 1.8	ENT USA	LEPS	10.5	ENT USA	LEPS	15.9 5.5	ENT USA	LEPS	13.9 3.7
TABLE 2 (continued)   JUNE 7, 1976, 18:00 CONTINUED     DATA SUMMARY FOR THE TIME PERIDO BEGINNING   100 AND ENDING   100 AND ENDING     DATA SUMMARY FOR THE TIME PERIDO BEGINNING   100 AND ENDING   110 L S     CHABLE   2   21.5   41.0   25.5   41.0   25.4     DATA SUMMARY FOR THE TIME PERIDO BEGINNING   100 AND ENDING   110 L LS   11.1   12.5   41.0   25.5   40.1   41.1   2.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5   40.5		00. PER	LEQ	73.7 45.7	00. PER(	LEQ	- 74.0 49.1 e high j	0. PERC		75.2	00. PERC	LEQ	15.1	DO. PERC	LEQ	13.6	0. PERC	LEQ	74.4
TABLE 2 (continued)   JUNE 7, 1976, 18:00 CONTINUED     DATA SUMMARY FON THE THE PERIOD BEGINNING TOU AND ENDING TIOD BASE     DATA SUMMARY FON THE THE PERIOD BEGINNING TOU AND ENDING TIOD BASE     CHARL + 92 + 92 + 92 + 92 + 10 + 10 + 10 + 100 AND ENDING 2:00 BASE     DATA SUMMARY FON THE THE PERIOD BEGINNING TIOU AND ENDING 2:00 BASE     DATA SUMMARY FON THE THE PERIOD BEGINNING TIOU AND ENDING 2:00 BASE     DATA SUMMARY FON THE THE PERIOD BEGINNING TIOU AND ENDING 2:00 BASE     DATA SUMMARY FON THE THE PERIOD BEGINNING 1:00 AND ENDING 2:00 BASE     DATA SUMMARY FON THE THE PERIOD BEGINNING 2:00 AND ENDING 2:00 BASE     DATA SUMMARY FON THE THE PERIOD BEGINNING 2:00 AND ENDING 2:00 BASE     DATA SUMMARY FON THE THE PERIOD BEGINNING 2:00 AND ENDING 3:00 BASE     DATA SUMMARY FON THE THE PERIOD BEGINNING 2:00 AND ENDING 3:00 BASE     DATA SUMMARY FON THE THE PERIOD BEGINNING 2:00 AND ENDING 3:00 BASE     DATA SUMMARY FON THE THE PERIOD BEGINNING 2:00 AND ENDING 3:00 BASE     DATA SUMMARY FON THE THE PERIOD BEGINNING 2:00 AND ENDING 4:00 AND     DATA SUMMARY FON THE THE PERIOD BEGINNING 2:00 AND ENDING 4:00 AND     DATA SUMMARY FON THE THE PERIOD BEGINNING 2:00 AND ENDING 4:00 AND     DATA SUMMARY FON THE THE PERIOD BEGINNING 2:00 AND ENDING 4:00 AND     DATA SUMMARY FON THE THE PERIOD BEGINNING 2:00 AND ENDING 4:00 AND     DATA SUMMARY FON THE THE PERIOD BEGINNING 2:00 AND ENDING 5:00 BASE		ED ON 10		83.6 50.8	D ON 10		84.3 61.5 indicate	0 0N 10		84.6 52.9	D ON 10		84.2 55.2	D ON 10	T	83.7	D NO O	T	85.1 64.3
TABLE 2 (continued)   JUNE 7, 1976, 18:00 CONTINUE     DATA SUMMARY FON THE TIME PERIOD BEGINNING   100 CONTINUE     DATA SUMMARY FON THE TIME PERIOD BEGINNING   100 AND ENDING   110     CHONL <u>1 92 1 95 1 90 L 80 L 10 L 50 L 50 L 40 L 30 L 30 1111</u> 111     2 55:0 51:0 51:0 52:0 42:0 43:2 55:6 51:0 71:0 50:1 111   210     2 55:0 51:0 51:0 40:0 70:0 95:0 110 AND ENDING   210     2 40:1 2 1:0 40:1 4:0 42:1 44 45:1 44:0 41:0 40:0 70:0 50:1 00.1 111   210     2 51:0 50:1 71:0 42:1 70:0 42:1 40:0 70:0 70:0 70:0 50:1 00.1 110   210     2 51:0 50:1 71:0 42:1 70:0 42:1 40.1 40.0 50:0 10:0 100   210     2 51:0 50:1 71:0 42:1 70:0 70:0 70:0 70:0 70:0 70:0 70:0 70		0 BASI	1 5	82.4 48.5	0 BASE	- 5-1	82.4 52.2 ights	D BASE	1.5	82.6	0 BASE	- 5 -	82.6 52.4	0 BASE	- 5 -	82 <b>.</b> 3 56.6	0 BASE	L 5 -	63.1 63.0
TABLE 2 (continued)   JUHE 7, 1976, 18:00 C0     DATA SUMMARY FOR THE TIME PERIOD BEGINNING 100 AND ENDIT     DATA SUMMARY FOR THE TIME PERIOD BEGINNING 100 AND ENDIT     CHAIL L 99 L 95 L 90 L 80 L 10 L 50 L 40 L 30 L 20     J. 52:0 55:0 71:5 71:5 73:7 59:5 73:0 73:5 75:0 71:3 75:3 76:3 76:3 76:3 76:3 76:3 76:3 76:3 76	NTINUED	1:0	110	11.1	VG 210	110		6 3:0		49.6	16 410	01-1-	82.1 51.0	16 5:0	1 10	79.0 53.5	1G 610	91-1-	77.1
TABLE 2 (continued)   JUNE 7, 1976, 18     DATA SUMMARY FON THE TIME PERIOD BEGINNING 100 AN     CHARL 1 29 1 95 1 90 1 00 1 50 17.3 05.0 01.3 08.0     2 52.9 55.9 51.9 10.0 AN     CHARL 1 29 1 95 1 90 10.0 AN     2 52.9 51.9 11.0 AN     2 52.9 51.7 51.7 50.4 12.2 52.5 10.0 AN     2 30.5 40.7 41.6 42.7 43.7 44.4 45.1 45.8 46.0 AN     2 30.5 40.7 41.6 42.7 43.7 44.4 45.1 45.8 45.9 47.0 AN     2 30.5 40.7 40.8 THE THE FERIOD BEGINNING 2:00 AN     2 30.6 40.8 42.0 42.8 51.4 59.6 51.4 45.1 45.8 45.9 47.0 AN     2 30.6 40.8 42.0 42.8 51.4 59.6 51.4 45.1 45.8 45.9 47.0 AN     2 30.6 40.8 42.0 42.8 43.7 44.4 45.1 40.1 L 90 1.5 0.0 AN     2 30.6 40.8 42.0 42.8 51.4 59.6 51.4 50.1 40.1 L 90     2 30.6 40.7 40.8 THE THE FERIOD BEGINNING 2:00 AN     2 40.1 2 51.8 52.9 53.1 55.4 59.4 40.1 40.1 40.1 AN     2 40.1 2 51.8 52.9 53.1 55.4 43.1 44.4 45.3 45.3 46.3 47.1 50.1 80     2 40.1 2 51.8 52.9 53.1 55.4 43.1 44.4 45.3 45.3 46.3 47.1 50.1 80     2 30.6 40.5 41.3 42.4 42.0 42.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14	1:00 CO	D ENDI	1 20	71.1	D ENDIN	1_20	70.3 48.0 ut reco	ENDIN	L 20	72.8	D ENDIN	1.20	72.4	O ENDIN	1_20	51.0	O ENDIN	L 20	72.5
TABLE 2 (continued)   JUNE 7, 1     DATA SUMMARY FOR THE THE PERIOD BEGINNING   DATA SUMMARY FOR THE THE PERIOD BEGINNING     1   52.0   55.8   57.9   60.6   62.4   47.0   47.1     1   52.0   55.8   57.9   60.6   62.4   43.5   47.0   47.1     1   52.0   55.8   57.9   60.6   62.4   43.5   47.0   47.1     DATA SUMMARY FOR THE TIME PERIOD BEGINNING   1   52.0   55.1   57.1   53.5   43.5   47.0   47.1     1   53.5   40.7   41.6   1.0   10   10   52.0   55.1   57.1   55.5   54.1   55.5   54.1   55.5   54.1   55.5   54.1   55.5   54.1   55.5   54.1   55.5   54.1   55.5   54.1   55.1   55.1   54.1   55.1   55.1   54.1   55.1   54.1   55.1   54.1   55.1   54.1   55.1   54.1   55.1   54.1   55.1   54.1   55.1   54.1   55.1   54.1   56.1   54.1   55.1	976 <b>,</b> 18	100 AN	סב ד ז	68.9 45.3	100 AN	DE-1-1	67.0	OU AND	05-1-	67.8 47.0	1:00 AN	1.30	66.5	:00 ANI	1-30	64.9 49.4	100 ANI	1 30	10.0
TABLE 2 (continued)   JUN     DATA SUMMARY FON THE TIME PERIOD BEGIN     DATA SUMMARY FON THE TIME PERIOD BEGIN     CHANL   92   192   19   10   42.5   43.0   43.5   44.4     L   92   195   11.5   41.9   42.5   43.0   43.5   43.5     L   52.0   55.8   51.9   60.6   62.4   64.2   65.4     DATA SUMMARY FOR THE TIME PERIOD BEGIN   DATA SUMMARY FOR THE TIME PERIOD BEGIN   10.5   43.0   43.5   44.4     L   92   40.7   51.7   59.5   51.7   59.5   43.7     L   91.6   53.7   51.7   59.5   51.7   59.5   51.7   50.1   43.4     L   91.6   41.6   42.7   57.4   43.7   44.8   45.8     L   91.6   41.6   42.0   41.6   42.8   43.7   44.8     L   91.6   41.6   42.9   57.4   59.6   51.9   50.5     L   91.6   42.6   42.8   51.4   51.4	IE 7, 1	9NIN	0 - 1 - 1	6 67 • 3	N I NG	04 1 0	<b>5 64.4</b> <b>1 45.8</b> M reads	11 NG 2	1 10	64.3	E ONIN	<u>0</u> 4-1- 0	3 62.7	41NG 4	1-40	48.0	ING 5	96 1 - 1	54.3
TABLE 2 (continued)     DATA SUMMARY FON THE TIME PERIOD     DATA SUMMARY FON THE TIME PERIOD     CHANL   99   49   41   41     1   52.0   55.9   57.9   60.6   62.4   64     1   52.0   55.9   57.9   60.6   62.4   64   43.0     1   52.0   55.9   57.9   50.5   43.0   43.0   43.0     DATA SUMMARY FOR THE TIME PERIOD   DATA SUMMARY FOR THE TIME PERIOD   642   42.0   42.0   44.0     1   51.6   54.2   55.7   57.1   59.5   61.4   44.0     1   51.6   54.2   55.7   57.1   59.5   61.4   44.0     1   51.6   55.7   57.1   59.5   51.4   59.5   51.4   59.5     1   51.6   55.7   57.1   59.5   51.4   59.5   51.4   59.5     1   51.6   55.3   55.4   59.5   51.4   59.5   59.5   59.5   59.5   59.5   59.5   59.5   59.5	JUL	BEGIN	1 1 2	517	BEGIN	3 1 0	2 62. 4 45. ess, SI	BEGIN	0 1 5(	6 61.5 7 44.E	HEGINI	0 - L - 5	1 60. 3 45.	<b>BEGIN</b>	0 <u>L 51</u>	5 60.1	BEGIN	1 1 21	3 66.9 1 53.1
TABLE 2 (continued)     DATA SUMMARY FOR THE TIME     DATA SUMMARY FOR THE TIME     CHAML L 22 L 22 L 20 L 00 L     1   52.0   55.0   57.9   60.6   62     1   52.0   55.0   57.9   60.6   62     1   52.0   55.0   57.9   60.6   62     1   52.0   55.0   57.1   59   43.5     DATA SUMMARY FOR THE TIME   L 92 L 92 L 92 L 90 L 92 L 1   1   1     1   51.6   54.2   55.1   59   43.5     2   39.5   40.7   41.6   42.0   43.5     1   51.6   54.2   57.1   59   43.5     2   39.5   40.5   40.8   42.0   43.5     2   39.6   40.5   40.8   4.1   40.5     1   51.0   52.5   53.7   55.0   55.0   55.0     2   39.6   40.5   40.5   40.8   L   40.5     1   51.0   52.5   53.7   55.0   55.0   55.0		PERIOD	<u>20 L 6</u>	64 0	PERIOD	9 T 01	5 61 7 44	PERIOD	<u>0</u> L 6	4 59. 8 43.	PERIOD	9 7 0	4 44	PERIOD	0 1 0	<u>8 58</u> . 1 45.	PER100	9 1 9	6 65. 2 52
TABLE 2 (continued)     DATA SUMMARY FOR TH     CHAML   1   92   1   92   1     CHAML   1   92   1   9   1   9   1     CHAML   1   92   1   9   1   9   1   9   1   9   1   9   1   9   1   9   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1		E TIME	<u> </u>	5 43	ETIME	<u>1</u> 00	7 59 7 43	TIME	1 - 1	8 57. 0 42	ETIME	B0 L 1	в 56 3	E TIME	B0 _L_1	0 56. 8 44	E TIME	1 - T	2 51.
TABLE 2 (continuery     DATA SUMMARY     CHANL   99   95   6     1   52.0   55.8   51   5     2   40.5   41.5   41   4     1   52.0   55.8   51   4     2   40.5   41.5   41   4     2   39.5   40.7   41   4     2   39.5   40.7   4   4     2   39.5   40.7   4   4     2   39.5   40.5   40   4   4     2   39.6   40.5   4   4   4   4     2   39.6   40.5   4   4   4   4   4   4     2   39.4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4   4 <t< td=""><td>(pər</td><td>FOR TH</td><td>20 L</td><td>-9 60 -9 42</td><td>FOR TH</td><td>20 1</td><td>•7 57 •6 42 • 05:01</td><td>FOR THE</td><td>20 -L-</td><td>.7 55 .8 42</td><td>FOR TH</td><td>-1- 95</td><td>9.0 9.0 9.0</td><td>FOR TH</td><td>20 L J</td><td>• 9 55 • 42</td><td>FOR THE</td><td>20 L (</td><td>.1 50</td></t<>	(pər	FOR TH	20 L	-9 60 -9 42	FOR TH	20 1	•7 57 •6 42 • 05:01	FOR THE	20 -L-	.7 55 .8 42	FOR TH	-1- 95	9.0 9.0 9.0	FOR TH	20 L J	• 9 55 • 42	FOR THE	20 L (	.1 50
TABLE 2 (cc   DATA SI   DATA SI   CHANL L 92 L   1 52.0   2 40.5   2 39.5   4 0   2 39.5   4 0   1 51.2   2 39.5   4 0   1 51.2   2 39.5   4 0   1 51.2   2 39.5   4 0   1 51.2   2 39.5   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 51.4   1 54.3   1 54.4	mtinu	унаят	<u>95 L</u>	5.8 51 1.5 41	JMMARY	<u>95 L</u>	1:00 t	IMIIARY	25 - F	2.5 53 1.2 40	MMARY	<u>-1- 22</u>	1.8 52 1.5 41	IMMARY	<u> 95</u> -L-	.7.52	MMARY	<u> 25 - L</u>	.5 59
TABLE CHAML L CHAML L	2 (co	DATA SU	- <del>1</del>	2•0 55 0•5 4]	DATA SI	<u> 92 L</u>	<b>1. 1. 0</b>	ATA SU	<u> 22 L</u>	.6 40	ATA SU	<u> 9</u> 2 L	1.1 51 0.4 40	ATA SU	99 L	• 0 51 • 9 40	ATA SU	<u> 1</u> 66	• 3 57 • 6 48
TA TA CHA CHA CHA CHA CHA CHA CHA CHA CHA CH	BLE	Ļ	1 10	52		NL L		ā.	<u>NL. – </u>	51 39	3	J T	195	0	7	96 13	0	1 10	4.0
	ТА		CHA	- 2		CHA	- 2		CHA	7		CHA	- 2		CHAI	- 2		CHAI	- ~

JUNE 7, 1976, 18:00 CONTINUED

8 HOURS OF NIGHTTIME

125.0 INI 104.9 NPL DATA SUMMARY FOR THE TIME PERIOD BEGINNING 22:00 AND ENDING 6:00 BÁSED ON 100. PERCENT USABLE DATA 11.9 1516 LEPS 12.8 14.6 74.3 LEO CHANL L 29 L 90 L 80 L 10 L 60 L 50 L 40 L 30 L 20 L 10 L 5 L 1 51.3 53.4 55.5 58.4 61.0 63.0 65.0 67.1 69.0 71.6 80.3 82.5 84.3 39.9 41.0 41.9 43.1 44.0 44.9 45.8 46.8 48.1 49.9 52.9 56.6 63.0 - ~

CONCLUDES JUNE 7, 1976, 18:00

	INI	18.1 56.1		INI	76.6
	NPL	89.6 70.3		- HAN	87.4 61.0
LE UATA	- 5131	5.5	LE DATA	L516 -	4.6 1.9
ENT USAB	- FES	11.7	INT USAB	- EPS -	10.1
0. PERCE	LEQ -	75.0	DO. PERCE	LEQ	75.7 53.6
D 00 10		86.U 64.4	D ON 10		86.2 64.4
BASE	1 5 1	80.1 63.2	BASE	<b>L</b> -5	80.3 57.9
8:00	L_10	77.7	9:00	- 77 -	78.0
END I NG	L 20	74 • 3 55 • 3	ENDING	L 24	75.5
U AND	L_30	72.6 54.2	0 AND	1 30	74.2
1:0	L 40 -	71.4 53.6	6 8:0	1 40	73.1
GINNIN	L 50 -	70.4 53.2	6 I NN I N	L 50	72.1 51.0
10D BE	L 60	69.6 52.8	NOD HE	L 60 -	71.3
IME PEH	L_20	68.9 52.4	IME PEF	L_10	10.4
THE T	L 80	68.4 52.0	THE T	L_00	69.4 42.6
ły for	1_90	67.3 51.4	łY FOR	L 90	68.4 4.1
SUMMA	- 35 -	66.7 50.9	SUMMA	L 95 -	67.4 48.8
DATA	L 99 -	65•4 50 <u>-</u> 3	DATA	L 22	66.0 44.1
	CHANL -	- 2		HANL	- 2

CONCLUDES JUNE 8, 1976, 7:00

TABLE 2 (continued)

JUNE 8, 1976, 10:00

24 ONE-HOUR RUNS

A STATE	NPL INI	85.6 75.4 67.0 55.5	×	INI TAN	85.7 77.2 67.5 56.0	L A	-NPL- INI-	61.5 79.8 63.6 48.8	IA	NPL _ INL	104.1 100.3 63.5 47.6	ΓA	INI JUL	103.4 106.6 66.1 51.6	IA	INI JAN	84.0 78.1
VBLE DAT	5121	4 • 3 4 • 1	VBLE DAT	1519	<b>4 .</b> 2	VBLE DAT	1519	9 • 4 4 • E	ABLE DA	1516	10.1 3.2	ABLE DA	1519	9.7 4.0	ARLE DA	1519	0 V
CENT USA	LEPS	6.6 2.3	CENT USA	LEPS	4.7 3.0	CENT US	LEPS	8.0 4.1	CENT US.	LEPS	8.1 4.9	CENT US	LEPS	6.4 3.6	ICENT US	LEPS	1.1
00. PERC	169	74.7 56.6	00. PERG	LEQ	74.9	00. PER	LEQ	75.1 54.8	100. PER	LEQ	78.2	100. PER	LEQ	78.6 55.9	100. PER	LEQ_	6 96
V SUMMARY FOR THE TIME PERIOD BEGINNING TO:00 AND ENDING 11:00 BASED ON 100	<u> </u>	67.1 68.1 69.4 70.4 71.1 72.0 72.8 73.9 75.2 77.4 79.6 83.1 50.4 51.3 52.5 53.2 54.0 54.7 55.5 56.4 57.7 59.9 61.6 64.3	A SUMMARY FOR THE TIME PERIOD BEGINNING 11:00 AND ENDING 12:00 BASED ON 100	<u>- 75 - 760 - 160 - 170 - 68 - 150 - 140 - 30 - 120 - 10 - 5 - 1 - 1</u>	67.2 68.3 69.6 70.8 71.7 72.6 73.5 74.4 75.7 78.0 79.8 83.1 50.5 51.2 52.2 53.0 53.8 54.7 55.7 56.6 57.8 59.9 63.2 64.4	A SUMMARY FOR THE TIME PERIOD BEGINNING 12:00 AND ENDING 13:00 BASED ON 100	<u>- 1 25 - 20 - 80 - 70 - 60 - 50 - 40 - 30 - 20 - 10 - 5 - 1 1</u>	65.9 67.2 69.0 70.0 70.8 71.7 72.6 73.7 75.1 77.9 80.5 85.5 49.2 49.8 50.6 51.2 52.0 52.7 53.3 54.2 55.3 51.1 58.8 64.4	A SUMMARY FOR THE TIME PERIOD BEGINNING 13:00 AND ENDING 14:00 BASED ON 100	<u> </u>	65.6 67.0 68.6 69.8 70.8 71.8 73.0 74.4 77.4 84.8 85.5 87.4 49.4 50.1 51.0 51.7 52.2 52.8 53.5 54.3 55.3 57.0 59.4 64.7 1 13:00 to 15:00. 7.0 dB excess. picking up high frequency.	A SUMMARY FOR THE TIME PERIOD BEGINNING 14:00 AND ENDING 15:00 BASED ON 101	<u> </u>	66.2 67.6 69.3 70.4 71.3 72.4 73.6 75.4 78.5 84.9 85.4 87.0 50.2 50.9 51.7 52.3 52.9 53.5 54.2 55.0 56.2 58.6 51.4 54.4	A SUMMARY FOR THE TIME PERIOD REGIMNING 15:00 AND ENDING 16:00 BASED ON 100	<u>L 95 L 90 L 80 L 70 L 60 L 50 L 40 L 30 L 20 L 40 L 50 L 10 </u>	
DATA	JANL L 99	1 64.9 2 48.7	DATI	JANL L 22	1 65.2 2 48.9	DAT	JANL L 22	1 64•0 2 47•9	DAT	IANL L 22	1 63.7 2 48.2 Cb	DAT	JANL L 99	L 64.5 2	0AT	JANL L 29	-

31

ontinued)
ő
J
2
ы
Ę
m H
ΤA

JUNE 8, 1976, 10:00 CONTINUED

,	DAT	A SUMM	ARY FO	R THE	TIME	PERIO	D 8EG	NINNI	6 16:1	00 ANE	) ENDI	NG 17	8 00	ASED	0N 10	0. PERG	JENT US	ABLE DA	IA	
CHANL	L _L 99	L_95	L 20	16-1-	1-1	<u>0</u>	60 L	50	1 40	1.30	1_20		2 4 5	-	T	LEQ	LEPS	1516	NPL	THI
5	65•2 51•0	67.3 51.8	68.5 52.2	69.6 52.6	70.	1 10 1 53	- <u>9</u> - 7	1.5 4.3	12.2	12.9	56.5	75.	1 61.	5 85 2 64	0.4	. 74.3 56.3	7.6 2.8	4 • E 4 • E	83.0 64.9	67.9 48.2
	UAT	A SUMH	ARY FO	R THE	I I ME	PERIO	D 8EG	NINNI	6 17:	OU ANE	C ENDI	NG 18	: 0 0 B	ASED	01 NO	0. PER(	ENT US	ABLE UA	I A	
CHANL	L L 99	L 95	L 90	L 81		1-0	<b>-</b> 03	- 20	<u>. 49 ا</u>	0E 7	1 20		2 <b>- 1</b> 5		4	LEO	LEPS	1516	NPL	INL
2	65.4 50.4	67.5 51.7	68•9 52•2	52.9	.0 <u>7</u>	8 71 3 53	<b>5 1</b> <b>7</b> 5	2.1	72.7	13.4	74.3	59.	0 70. 3 61.	2 82	0.4	74.0 56.5	5.6 2.8	0.6 0.6	81.8 66.4	67.4 50.3
	DATU	A SUMM	ARY FU	R THE	TIME	PERIO	)	INNIN	6 18:0	DU ANC	ENDI	NG 191	00 B	ASED	õn Tõ	0. PERG	ENT USA	ABLE DA	L A	
CLANL	L_L_22	<u>- 1 - 95</u>	L_20	<u>L 40</u>	1-1	) T 7	1- U	<u> </u>	40	L_30	L 20	5 <b>1-1</b> -	1 T 5		+	LEQ.	5777-	515T	- NDN-	TNI
i c	64.8 50.4	66.2 51.1	67.4 51.6	68.9 52.2	69. 52.	9 70. 8 53.	1 1		72.1	12.8	74.0	76.1 58.5	18.	6 9 64	04	73.8 56.2	6.8 3.3	3.7 3.9	83.4 66.1	72.3 50.9
	DAT	A SUMM	ARY FO	R THE	TIME	PERIO	) 8EG	NINNI	6 19:1	0.0 ANE	ENDI	NG 20	00 B	ASED	0N 10	0. PERC	ENT USA	ABLE DA	۲	
CHANL	L_L_22	-L-95	L 90	L_80	1-1	<u>ل ا م</u>	<b>-</b> 1	- 05	- 40 -	1.30	L 20	11-1-	2 <b>-1</b> -1	<b>-</b>	T	LEQ	LEPS	-L516	NPL	TNT
	63.8 49.4	65.7 50.4	67.1 51.0	68.2 51.8	69. 52.	1 69 53.	.8 7 .1 5	0.7 3.8	1.45	72.1	73.2 51.2	74.	0 77. 3 64.	4 82 3 64	5	72.8 56.9	5.4 3.9	а. з 5 . Ì	81.2 69.8	68.3 58.2
	DAT	A SUMM	ARY FO	R THE	1 IME	PERIO	) BEG	NINNI	6 20:1	00 ANE	) ENDI	NG 21	00 B	ASED	01 N0	0. PER(	ENT USA	VBLE DA	۷.	
CHANL	L_1_22	L 95	L 90	<u>1 00</u>	1-1	ה-ו- ע	1- 03	50 -	94	0נ ר	L 20		3 1 5	4	<b>-</b>	LEQ	LEPS	1516	-NPL-	INI
- 2	62.8 48.9	64•5 50•1	65.5 50.6	51.3	68. 51.	4 69 8 52	3 <u>7</u>	0 · 1 3 · 0	70.9 53.7	71.9	73.3	57.	84.	6 86 6 63	-5	75.5 55.0	12.5 2.9	5.2	88.9 64.5	80.8 49.0
	DAT	A SUMM	ARY FO	R THE	T INE	PLRIO	) BEG	NINNI	6 21:(	DU ANC	ENDI	NG 22	00 B	ASED	01 10	0. PERC	ENT US/	ABLE UA	2	
CHANL	L_L_99	L 95	-L-20	-L-80	1-1-	2 - 1 - 2	50 L	- 50	40	L 30	L 20	ווייד	1 - 1 - 5	-	F	LEQ	SHELL	1516	-YAN	TNI
1 2	61.8 49.7	63.4 50.4	64.8 50.8	66.1 51.6	67. 52.	3 68. 2 52.	د بر الم الم الم	9.2	70.2	71.0	72.2	74.56.	78.	4 84 5 63	5	73.2	13.5 2.4	4.2 2.8	04.0 61.9	74 • 4 44 • 9

$\sim$
σ
Ð
ā
.д
Ŀ.
7
5
2
0
$\frac{1}{2}$
<u> </u>
2 (c
5 2 (c
,Е2 (с
ILE 2 (c
BLE 2 (c
ABLE 2 (c
TABLE 2 (c

JUNE 8, 1976, 10:00 CONTINUED

•

														•	372	21
TNI	7.17		INI	73.7 45.6		INI	80.2 51.5		INI	86.3 56.3		TNI	84.4 73.6		TNI	89.1 69.8
NPL	81.7 62.2	A	<b>NPL</b>	80.7 61.2	٩	NPL	83.8 61.3	A	Tan	88.1 61.8	A	NPL	07.4 70.2	A	NPL	91.3 64.1
ALE DA	4.1 2.8	BLE DA	L516	4 . 2 2 . 9	ตน อุป	1519	5.9 9.6	BLE DA	1510	7 • 4 4 • 0	BLE DA	L516	7.7 6.8	IBLE DA	L516	9.0 5.4
ENF USA LEPS	6.0 1.6	ENT USA	LEPS	7.6 2.6	ENT USA	LEPS	31.9 4.3	ENT USA	LEPS	16.3 3.6	ENT USA	LEPS	23.3 7.4	ENT US/	LEPS	25.6 6.5
DO. PEHC	71.3 54.9	00. PERC	LEQ	70.0 53.6	00. PERC	LEG	70.1 52.1	00. PERC	LEQ	69.2 51.6	DO. PERC	LEQ	67.8 52.8	 )0. РЕКС	LEQ	68.3 50.3
ARY FOR THE TIME PERIOD BEGINNING 22:00 AND ENDING 23:00 BASED UN 100. -L 90 L 80 L 10 L 60 L 50 L 40 L 30 L 20 L 10 L 5 L 1 LE	64.5 65.5 66.7 67.6 68.6 69.5 70.6 71.7 73.8 76.0 80.8 7 50.8 51.7 52.4 53.1 53.7 54.3 55.0 56.0 57.3 58.7 61.8 5	ARY FOR THE TIME PERIOD BEGINNING 23:00 AND ENDING :00 BASED ON 100.	<u>L 20 L 80 L 70 L 60 L 50 L 40 L 30 L 20 L 10 L 5 L 1 L 5</u>	62.0 63.9 65.0 65.9 67.1 67.9 69.1 70.4 72.5 74.8 80.3 71 49.2 50.2 50.8 51.4 52.1 52.7 53.4 54.3 55.8 57.8 61.3 5.	AHY FOR THE TIME PERTOD BEGINNING :00 AND ENDING 1:00 BASED ON 100.	-4-20 -4-40 -4-70 -4-60 -4-50 -4-40 -4-30 -4-60 -4-40 -4-12	58.7 60.5 62.0 63.3 64.7 65.9 67.3 69.1 71.6 75.1 81.5 71 45.9 47.3 48.5 49.3 50.2 51.0 51.8 53.0 54.8 56.3 60.0 52	AHY FOR THE IIME PERIOD BEGINNING 1:00 AND ENDING 2:00 BASED ON 100.	L 20 L 80 L 10 L 50 L 50 L 50 L 50 L 30 L 20 L 10 L 5 L 1.	57.1 58.6 59.8 61.1 62.4 64.3 65.7 68.0 71.9 75.3 81.1 6' 44.1 46.3 47.4 48.5 49.6 50.7 51.8 52.9 54.7 56.0 59.1 51	AHY FOR THE TIME PERIOD BEGINNING 2:00 AND ENDING 3:00 BASED ON 100.	L 90 L 80 L 10 L 10 L 50 L 50 L 40 L 30 L 20 L 10 L 5 L 1.	55.4 56.7 57.9 59.2 60.4 61.8 63.6 66.0 70.2 73.6 80.0 6 41.3 43.7 45.4 46.8 48.2 49.7 51.3 53.3 56.9 59.6 62.4 5	AHY FOR THE TIME PERIOD BEGINNING 3:00 AND ENDING 4:00 BASED ON 100.	L 20 L 80 L 10 L 50 L 50 L 40 L 30 L 20 L 14 L 2	54.5 55.4 56.5 51.7 59.2 61.2 63.1 65.6 70.7 74.4 81.0 64 38.6 41.6 43.8 45.6 47.1 48.5 49.9 51.7 53.9 55.8 58.7 51
11A SUMM	7 63.4 1 50.1	TA SUMM	1 <u>1</u> 25	.2 <u>60</u> .5 048.4	IA SUMM	12 _L_25	.8 57.5 0 44.8	ITA SUMM	12 L 25	2 56.1	ITA SUMM	12 L 95	0 54 7 8 39 8	VIA SUMM	12 L 25	1 54.1 4 37.4
CHANL L 9	1 <u>61</u> . 2 49.	DA	CHANL L 9	1 58. 2 47.	Ŭ.	CHANL _L9	1 55. 2 43.	DA	CLIANL _L_2	1 55. 2 40.	DA	CHANL L 9	1 54. 2 37.	U A	CHANL L 9	1 52. 2 36.

TABLF	2 (continued) JUNE 8, 1976, 10:00 CONTINUED	3722
	DATA SUMMARY FOR THE TIME PERIOD BEGINNING 4:00 AND ENDING 5:00 BASED ON 100. PERCENT USABLE DATA	
CHANL -	<u>L 22 L 22 L 20 L 80 L 70 L 50 L 50 L 30 L 20 L 20 L 10 L 5 L 1 LEO - LEPS L516 -NPL - </u>	INI
1 2	52.2 54.5 55.3 56.6 57.8 50.8 60.1 61.6 63.8 66.4 70.7 75.2 02.0 69.1 27.1 8.3 90.3 31.9 40.0 41.6 43.9 45.4 46.6 47.7 40.8 49.9 51.3 53.2 54.8 50.0 50.1 5.4 4.3 61.1	01.0 58.2
	UATA SUMMARY FOR THE TIME PERIOD BEGINNING 5:00 AND ENDING 6:00 BASED ON 100. PERCENT USABLE DATA	
CHANL	<u>1 99 1 95 1 90 1 80 1 80 1 50 1 90 1 30 1 30 1 20 1 10 1 5 1 1 160 1 50 1 816</u>	INI
- ~	54.2 56.9 58.8 61.5 63.6 65.4 66.8 60.3 69.9 72.0 75.7 02.5 05.4 74.0 16.4 7.0 91.9 45.7 49.6 50.8 52.1 52.8 53.5 54.1 54.7 55.6 56.7 58.5 60.4 63.7 55.8 2.3 3.5 64.6	96.5 51.5
	DATA SUMMARY FOR THE TIME PERIOD BEGINNING 6:00 AND ENDING 7:00 BASED UN 100. PERCENT USABLE DATA	
CHANL	L 22 L 22 L 20 L 22 L 50 L 50 L 50 L 30 L 20 L 20 L 20 L 20 L 20 L 5 L 1 LEO LEPS L516 NPL	INI
2	65.2 08.3 09.7 71.3 72.1 72.7 73.4 74.0 74.6 75.6 77.6 79.9 83.6 75.2 4.1 3.3 83.7 53.2 54.1 54.7 55.5 55.9 56.3 56.7 57.0 57.5 58.0 58.7 59.6 61.5 57.1 •5 1.6 61.3	71.4
	DATA SUMMARY FOR THE TIME PERIOD BEGINNING 7:00 AND ENDING 8:00 BASED ON 100. PERCENT USABLE DATA	
CHANL	<u>1 92 L 95 L 90 L 90 L 70 L 50 L 50 L 30 L 30 L 20 L 10 L 5 L 1 L 50 L 50 L 516 MPL</u>	INI
7	65.7 67.0 67.8 68.6 69.4 70.0 70.7 71.4 72.3 73.5 75.3 77.0 80.8 72.7 3.2 3.5 81.8 52.0 52.8 53.3 53.8 54.2 54.5 54.9 55.4 55.9 56.6 58.4 61.3 64.4 56.6 2.4 2.8 63.7	67.7 44.0
<b>8</b>	DATA SUMMARY FOR THE TIME PERIOD BEGINNING 8:00 AND ENDING 9:00 BASED ON 100. PERCENT USABLE DATA	
CHANL	L 22 L 25 L 20 L 80 L 70 L 50 L 50 L 50 L 30 L 20 L 10 L 5 L 10 L 5 L 1 .	TNI
5 –	65.4 66.3 67.4 69.1 70.1 71.0 71.8 72.5 73.5 74.8 76.8 78.8 83.4 74.2 6.9 3.9 84.2 51.4 52.1 52.6 53.0 53.4 53.7 54.1 54.4 54.9 55.5 56.6 57.9 61.3 55.0 1.2 2.0 60.1	75.1 38.9
	DATA SUMMARY FOR THE TIME PERIOD BEGINNING 9:00 AND ENDING 10:00 BASED ON 100. PERCENT USABLE DATA	
CHANL	L 92 L 25 L 90 L 80 L 70 L 50 L 50 L 50 L 20 L 20 L 20 L 10 L 5- L 1 LE9 LEPS L516 NPL	INI
2	65-5 67-5 68-7 70-2 71-2 72-0 72-7 73-5 74-3 75-6 78-0 79-9 83-0 74-9 3-8 4-2 85-6 50-3 51-5 52-1 53-0 53-6 54-2 54-7 55-3 56-0 57-0 58-8 60-2 62-3 56-0 1-4 3-2 64-3	75.8 49.0

		94.3 57.U		INI	96.6 66.2		
	- 1711	86.3 64.1		Tan	89.0 64.8		
	LE DATA LS19	4 • 8 3 • 5		512.	6.9 E.4		
	NT USAB LEPS	11.5 3.4	NT IICAN	LEPS	16.3 3.3		
	• PERCE	74 . I 55 . 3	DEDCE	Lto -	71.3 53.0		
JUNE 8, 1976, 10:00 CONTINUED	4MARY FOR THE TIME PERIOD REGIMNING 10:00 AND ENDING 10:00 BASED ON 100. 25 t 90 t 80 t 70 t 60 t 50 t 50 t 30 t 30 t 20 t 10 t 5 t t t tê	.6 60.5 65.3 67.5 69.2 70.3 71.4 72.5 73.9 76.4 79.6 85.3 74 .3 48.2 50.7 51.9 52.8 53.5 54.2 55.1 56.2 57.9 59.9 64.4 55	TIME For the stated becommine 22100 AND FRANKING 2100 DASED ON 100	25 -L-90 -L-80 -L-20 -L-60 -L-50 -L-50 -L-30 -L-20 -L-10 -L-5 -L-1 -Lt	.4 56.8 59.1 61.4 63.5 65.4 67.3 09.2 71.5 74.2 76.9 82.7 71 .7 44.2 47.0 48.9 50.4 51.6 52.9 54.1 55.5 57.2 58.5 61.6 53	1, 1976, 10:00	
24 HOUR RUN	DATA SUM CHANI 1 99 1 9	2 39.8 45.	9 HOURS OF NIGHT	UATA SUL CHANL L 22 L 2	1 54.0 55. 2 37.8 41.	CONCLUDES JUNE 8	

TABLE 2 (continued)

TABLE 2 (continued)   JUIE 9, 1976, 11:00     2 OHE-HOUR RUNS   JUIE 9, 1976, 11:00     2 OHE-HOUR RUNS   JUIE 9, 1976, 11:00     2 OHE-HOUR RUNS   JUIE 9, 1976, 11:00     DATA SUMMARY FOR THE TIME PEHIDD RECIMPING 11:00 AND ENDING 12:00 BASED ON 100. FERCHI USAHLE DAT     CHAML L 92 L 92 L 92 L 92 L 92 L 94 L 40	3724		<	NI - Idii	85.7 77 63.1 45	۲	NPL _ IH	86.8 79 65.7 49
TABLE 2 (continued)   JUIE 9, 1976, 11:00     2 OHE-HOUR RUGS   JUIE 9, 1976, 11:00     2 OHE-HOUR RUGS   DATA SUMMARY FOR THE TIME PERIDD HEGIMMING 11:00 AND ENDING 12:00 BASED UN 100. FERCHI USA     UATA SUMMARY FOR THE TIME PERIDD HEGIMMING 11:00 AND ENDING 12:00 BASED UN 100. FERCHI USA     (HAML 1.99 1.95 1.90 1.00 1.10 11.01 71.0 71.0 71.0 75.1 77.5 79.5 82.0 74.4 55.2 57.4 55.1 55.9 57.4 59.3 66.7 55.8 5.2 5.0 57.4 55.1 55.9 57.4 59.3 66.7 55.8 5.2 5.0 57.4 59.3 66.7 55.8 5.2 5.0 57.4 59.3 66.7 55.8 5.2 5.0 57.4 59.3 66.7 55.8 5.2 5.2 5.0 57.4 55.1 55.9 57.4 59.3 66.7 55.8 5.2 5.2 5.0 57.4 55.1 55.9 57.4 59.3 66.7 55.8 5.2 5.0 57.4 59.3 66.7 55.8 5.2 5.0 57.4 59.3 66.7 55.8 5.2 5.2 5.0 57.4 55.1 55.9 57.4 59.3 66.7 55.8 5.2 5.0 57.4 59.3 66.7 55.8 5.2 5.2 5.0 57.4 59.3 66.7 55.8 5.2 5.2 5.0 57.4 59.3 66.7 55.8 5.0 57.4 59.3 66.7 55.8 5.0 57.4 59.3 66.7 55.8 5.0 57.4 59.3 66.7 55.8 5.0 57.4 59.3 66.7 55.8 5.0 57.4 59.3 66.7 55.8 5.0 57.4 59.3 66.7 55.8 5.6 58.6 58.0 61.0 67.1 56.5 5.6 58.6 58.0 61.0 67.1 56.5 5.6 58.6 58.0 57.1 56.5 58.6 58.6 59.0 57.1 56.5 56.6 58.6 58.6 57.1 56.5 5.6 58.6 58.6 57.1 56.5 56.6 58.6 58.6 57.1 56.5 56.6 58.6 57.6 57.5 55.6 58.6 58.6 57.1 56.5 56.6 58.6 58.6 57.1 56.5 56.6 58.6 58.6 57.1 56.5 56.6 58.6 58.6 57.1 56.5 56.6 58.6 57.1 56.5 56.6 58.6 58.6 57.1 56.5 56.6 58.6 57.1 56.5 56.6 58.6 58.6 57.1 56.5 56.6 58.6 58.6 57.1 56.5 56.6 58.6 58.6 57.1 56.5 56.6 58.6 57.1 56.7 56.6 58.6 58.6 58.6 57.1 56.5 56.6 58.6 58.6 57.1 56.5 56.6 58.6 58.6 57.1 56.5 56.6 58.6 58.6 57.1 56.5 56.6 58.6 58.6 57.1 56.5 56.6 58.6 57.1 56.6 58.6 56.6 58.6 56.6 58.6 57.1 56.6 56.6 58.6 56.6 58.6 56.6 58.6 56.6 58.6 56.6 58.6 56.6 58.6 56.6 58.6 56.6 58.6 56.6 58.6 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1			BLE DAL	1.516	4.4 2.8	BLE DAF	1519	4.8 3.6
TABLE 2 (continued)   JUHE 9, 1976, 11:00     2 OHE-HOUR RUHS   JUHE 9, 1976, 11:00     2 OHE-HOUR RUHS   JUHE 9, 1976, 11:00     2 OHE-HOUR RUHS   JUHE 9, 1976, 11:00     DATA SUMMARY FOR THE TIME PERTUD BEGUNING 11:00 AND ENDING 12:00 BASED ON 1000. PERC     CHANN   L 92   L 92   L 92   L 92   L 91   L 10   L 12     L   64.5   60.3   61.5   69.1   70.1   71.0   71.0   72.1   73.6   53.0   54.4   55.1   77.5   79.5   82.0   74.4     L   64.5   60.5   51.3   52.1   53.2   53.0   54.4   55.0   57.4   59.3   66.7   55.8     L   64.5   52.1   53.2   53.2   53.4   55.1   55.4   59.3   66.7   55.8   74.4     Data summary Four The FILIOD REGINATING 12:00 AND ENDING 13:00 HASED ON 1000. PERC   174.4   140   140     UAIA SUMMARY FOUR THE TIME PERTUD REGINATING 12:00 AND ENDING 13:00 HASED ON 1000. PERC   144   140   144     UAIA SUMMARY FOUR THE TIME PERTURD REGINATING 12:00 AND ENDING 13:00 HASED ON 1000. PERC   144   144 <td></td> <td></td> <td>cent usa</td> <td>LEPS</td> <td>5•2 5•5</td> <td>сеит изл</td> <td>LEPS</td> <td>4.7 5.6</td>			cent usa	LEPS	5•2 5•5	сеит изл	LEPS	4.7 5.6
TABLE 2 (continued)   JUHE 9, 1976, 11:00     2 OHE-HOUR WURS   JUHE 9, 1976, 11:00     2 OHE-HOUR WURS   UAIA SUMMARY FOR THE TIME PERIOD BEGHNING 11:00 AND ENDING 12:00 BASED ON 1     UAIA SUMMARY FOR THE TIME PERIOD BEGHNING 11:00 AND ENDING 12:00 BASED ON 1     (HANL L 99 L 95 L 90 L 90 L 90 L 10 L 50 L 40 L 30 L 20 L 10 L 55 L L     2 499.4 50.6 51.3 52.1 53.7 53.2 53.8 54.4 55.1 77.5 79.3 66.7     1 64.5 50.6 51.3 52.1 52.7 53.2 53.8 54.4 55.1 77.5 79.3 66.7     1 0AIA SUMMARY FOR THE TIME PERIOD REGINNING 12:00 AND ENDING 13:00 HASED ON 1     DATA SUMMARY FOR THE TIME PERIOD REGINNING 12:00 AND ENDING 13:00 HASED ON 1     1 64.1 66.0 67.3 68.8 69.9 70.8 71.6 72.5 73.1 75.3 77.8 79.7 63.1     1 64.1 66.0 67.3 68.8 69.9 70.8 71.6 72.5 73.1 75.3 77.8 79.7 63.1     2 49.2 50.9 51.5 52.1 52.7 53.4 54.0 54.7 55.5 56.6 58.0 61.0 61.0 67.1			00. PERG	LEU	74.4 55.8	00. PERC	-FE 0	74.4 56.5
TABLE 2 2 ONE-HOUR 2 ONE-HOUR 2 49.4 2 49.4 2 49.4 2 49.4	(continued) JUNE 9, 1976, 11:00	KUNS	TA SUMMARY FOR THE TIME PERTUD BEGINNING 11:00 AND ENDING 12:00 BASED ON L	<u>1</u>	5 66.3 67.5 69.1 70.1 71.0 71.8 72.7 73.6 75.1 77.5 79.5 82.8 4 50.6 51.3 52.1 52.7 53.2 53.8 54.4 55.1 55.9 57.4 59.3 66.7	TA SUMMARY FUR THE TIME PERTUD HEGINNING 12:00 AND ENDING 13:00 HASED ON 1	2 L 25 L 20 L 30 L 30 L 50 L 50 L 50 L 40 L 30 L 20 L 10 L 5 L 1	1 66.0 61.3 68.8 69.9 70.8 71.6 72.5 73.7 75.3 77.8 79.7 83.1 2 50.9 51.5 52.1 52.7 53.4 54.0 54.7 55.5 56.6 58.6 61.0 67.1
TABI 2 ONE 1 2 2 2 2 2 2 2	E 2	-HOUR 1	DAL	1 99	64.5 49.4	DAT	L 99	64.1 49.2
	TABL	2 ONE-		THAN	- 2		CLIANL	<u>- N</u>

																	r.		
	CHANL	L_92	L_25	L_20	L_00	L_10	r 60	L_50	L 40	L_30	L_20	L_10	<u> </u>		LEQ	5437	L516	TAN	INI
	1	65.0	66.5	61.7	69.4	70.4	71.3	12.1	13.0	6.61	75.4	77.8	19.8	83.0	74.5	5.1	4 • 4	85.8	70.0
	2	49.9	51.1	51.6	52.4	52.9	\$3 <b>.</b> 4	54.0	54.7	55.5	56.4	58.4	61.1	67.0	56.5	5.8	<b>3.</b> 4	65.2	48.8
			UATA SU	ММАРУ F	HT HO	TIME PE	R100 BE	6 I NN I NG	11:35	AND END	ING 12:	DB BASI	ED ON 1	00. PER	CENT US	ABLE UA	IA		
	CHANL	L_22	L_95	L_20	L_80	L_70	L_60	L_50	L_40	L_30	L_20	01-1	L_5_	L_1_	LEO	LEPS	L516	- JAN	- INI
	I	64.4	66.4	67.1	69.0	70.1	70.9	71.6	72.5	73.5	74.9	77.0	19.1	92.4	74.0	5.2	4.2	84.8	15.1
37	2	48.8	49.9	50.7	9.14	52.4	52.9	53.4	54.0	54.7	55.5	56.8	58.7	66.8	55.5	6 <b>.</b> 5	2.6	62.1	44•H
			DATA S	SUMMARY	FOR THE	TIME P	ER100 H	EGINNIN	6 12:08	AND EN	DING 12	:42 BA	SEU ON	100. PE	RCENT U	ISABLE D	AIA		
	CHANL	L. 22	L_95	L_90	L_80	1_10	1 60	L_50	L 40	<b>1</b> 1	L_20	1 10	L-5-	1-1	LEQ.	LEPS	1516	- HAN	INI
	- 2	64.9 50.5	66.3 51.3	67.5	68.8 52.3	69.9 52.9	70.8 53.4	71.5	72.5	73.6	75.2 56.4	77.8 58.2	19.1	03.4 65.2	74.4	5.2	4 ° 4 9 ° 9	86.9 64.3	78.8 47.6

CONCLUDES JUNE 9, 1976, 11:00

JUNE 9, 1976, 11:00 CONFINUED

. •

TABLE 2 (continued)

.

3 SHORT RUNS (coincident with traffic counts)

3725

,

BLF 2 (continued) -JUNE 9, 1976, 14:00 Mark Summary FON THE THE PERIOD REGIMING 14:00 AND MAINE 15:00 BASED ON 100. PERCENT USABLE DATA UATA SUMMARY FON THE THE PERIOD REGIMING 14:100 AND MOTING 15:00 BASED ON 100. PERCENT USABLE DATA TH -129 1-95 1-99 1-99 1-191 -121 -121 -121 -121 -112 -112	3726		-INI-	75.1 50.8		INI	73.6 48.6		INI	67.7 46.0		INI	68.6 40.1		-INI-	70.0 88.6		INI	70.3 45.2
BLF 2 (continued) MG-HOUR RUNS MAIA SUMMARY FON HIL THE PERIOD BEGINNING 14:00 AND ENDING 15:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD BEGINNING 14:00 AND ENDING 15:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD BEGINNING 14:00 AND ENDING 15:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD BEGINNING 15:00 AND ENDING 15:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD BEGINNING 15:00 AND ENDING 15:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD BEGINNING 15:00 AND ENDING 15:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD BEGINNING 15:00 AND ENDING 15:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD BEGINNING 15:00 AND ENDING 15:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD BEGINNING 15:00 AND ENDING 15:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD HEGINNING 15:00 AND ENDING 15:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD HEGINNING 17:00 AND ENDING 17:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD HEGINNING 17:00 AND ENDING 17:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD HEGINNING 17:00 AND ENDING 17:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD HEGINNING 17:00 AND ENDING 17:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD HEGINNING 17:00 AND ENDING 17:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD HEGINNING 17:00 AND ENDING 17:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD HEGINNING 17:00 AND ENDING 19:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD HEGINNING 17:00 AND ENDING 19:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD HEGINNING 17:00 AND ENDING 19:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD HEGINNING 17:00 AND ENDING 19:00 BASED ON 100- PERCENT USABLE DA MAIA SUMMARY FON HIL THE PERIOD REGINNING 17:00 AND E		ΙA	NH	84.5 64.2	A I	TAN	84.3 63.5	ĬA	TAN	0.18 1.Eo	Į	7.11	82.1 59.8	ΙA	741	82.0 86.2	I A	TAN	80.7 52.5
BLF 2 (continued) ME-ROUK RMS MA-ROUK RMS MA SUMMARY FOM THE THE PERIOD REGIMING 14:00 AND ENDING 15:00 BASED ON 100. PERCENT USA UAIX SUMMARY FOM THE THE PERIOD REGIMING 14:00 AND ENDING 15:00 BASED ON 100. PERCENT USA GAI 95.7 00.9 00.2 00.3 70.3 71.0 71.9 72.9 75.0 50.8 50.3 50.1 23.9 5.2 0.11 65.7 00.9 00.2 00.3 70.3 71.0 71.9 72.9 75.0 50.8 50.3 50.1 23.9 5.2 0.11 55.0 00.1 05.0 10.5 71.3 71.0 72.9 71.0 10.1 FELL TED LEE 0.11 55.0 00.1 05.0 10.5 71.3 71.0 72.9 71.0 70.9 00.1 100. PERCENT USA 0.11 25.0 00.1 05.0 10.5 71.3 71.9 72.9 73.1 71.0 72.9 01.1 10.1 FELL 0.12 1.22 1.29 1.29 1.29 1.29 1.20 1.20 1.50 1.31 71.0 70.9 00.1 100. FERCENT USA 0.12 0.5.1 05.1 05.1 52.0 53.1 57.1 25.1 55.3 56.0 55.0 51.0 100. FELCENT USA 0.12 0.5.1 05.0 00.0 10.0 1.50 1.50 1.50 1.1 1.2 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1		IBLE DA	1516	4.0	BLE UA	<u>9131.</u>	4 • 0 3 • 4	BLE DA	<b>151</b> 6	3.6 3.6	NHLE DA	1516	3.4	HLE DA	1516	3.4 9.6	VBLE DA	<u>5121</u>	۳.5 ۳.5
BLF 2 (continued) OHE-HOUR RUNS OHE-HOUR RUNS DATA SUMMARY FOH THE THEFTO REGIMINO 14:00 AND ENDING 15:00 BASED ON 100. FERC DATA SUMMARY FOR THE THE PERTOD REGIMINO 14:00 AND ENDING 15:00 BASED ON 100. FERC 04:1 05:7 06:9 04:2 06:3 70.3 71.0 71.9 72.9 74.3 76.4 74.1 BE2 04:1 05:7 06:9 04:2 06:3 70.3 71.0 71.9 72.9 74.3 76.4 74.1 BE2 04:1 05:7 06:0 04:1 04:0 THE FRETOD REGIMINO 15:00 BASED ON 100. FERC 04:1 05:7 06:0 04:1 04:0 THE FRETOD REGIMINO 15:00 AND ENDING 15:00 BASED ON 100. FERC 04:1 05:7 06:0 04:1 04:0 71.2 71.9 72.9 74.3 76.4 74.3 77.0 78.9 82.1 71.0 04.1 29:1 29:1 29:1 29:1 29:1 29:1 20:1 20:0 51.1 20:1 19:1 25.1 11 04.1 29:1 29:1 05:0 50:3 51.1 20:1 51.0 72.0 73.9 55.0 50.0 100. FERC 04.1 29:1 29:1 00:0 70.0 04:0 05:1 00:0 51.1 20:1 11 1.5 1.1 11 04.1 29:1 29:1 00:0 70.0 04:0 05:1 00:0 71.0 71.0 78.9 82.1 74.1 04.1 29:1 29:1 20:0 51.1 20:1 50.0 51.1 20:1 71.0 78.9 82.1 74.1 04.1 29:1 29:1 20:0 71.0 04:0 10:0 11.0 12.0 11.0 12.0 71.0 71.0 71.0 71.0 71.0 71.0 71.0 71		ENT USA	LEP5	5.2 3.9	ENT USA	LEPS	4 • 1 5 • 3	ENT USA	15431	4 ° 4 7 ° 6	ENT US/	2431	4.1	ENT US/	-LEPS	10.4 3.7	ENT USA	LEPS	5.4
BLE 2 (continued) ONE-HOUR RUNS UNA SUMMARY FON THE THE PERIOD REGIMMING 14:00 AND ENDING 15:00 BASED ON 1 UATA SUMMARY FON THE THE PERIOD REGIMMING 14:00 AND ENDING 15:00 BASED ON 1 UL 1.22 1.25 1.30 49:0 49:0 50:3 51:0 51:0 52:1 52:1 52:0 56:8 56:5 61:1 UNA SUMMARY FOR THE THE PERIOD REGIMMING 15:00 AND ENDING 16:00 BASED ON 1 UNA SUMMARY FOR THE THE PERIOD REGIMMING 15:00 AND ENDING 16:00 BASED ON 1 UNA SUMMARY FOR THE THE PERIOD REGIMMING 15:00 AND ENDING 10:00 BASED ON 1 UNA SUMMARY FOR THE THE PERIOD REGIMMING 15:00 AND ENDING 17:00 BASED ON 1 UNA SUMMARY FOR THE THE PERIOD REGIMMING 15:00 AND ENDING 17:00 BASED ON 1 UNA SUMMARY FOW THE THE PERIOD REGIMMING 15:00 AND ENDING 17:00 BASED ON 1 UNA SUMMARY FOW THE THE PERIOD REGIMMING 15:00 AND ENDING 17:00 BASED ON 1 UNA SUMMARY FOW THE THE PERIOD REGIMMING 15:00 AND ENDING 17:00 BASED ON 1 UNA SUMMARY FOW THE THE PERIOD REGIMMING 15:00 AND ENDING 17:00 BASED ON 1 UNA SUMMARY FOW THE THE PERIOD REGIMMING 17:00 AND ENDING 10:00 BASED ON 1 UNA SUMMARY FOW THE THE PERIOD REGIMMING 17:00 AND ENDING 10:00 BASED ON 1 UNA SUMMARY FOW THE THE PERIOD REGIMMING 17:00 AND ENDING 10:00 BASED ON 1 UNA SUMMARY FOW THE THE PERIOD REGIMMING 17:00 AND ENDING 10:00 BASED ON 1 UNA SUMMARY FOW THE THE PERIOD REGIMMING 17:00 AND ENDING 10:00 BASED ON 1 UNA SUMMARY FOW THE THE PERIOD REGIMMING 17:00 AND ENDING 10:00 BASED ON 1 UNA SUMMARY FOW THE THE PERIOD REGIMMING 19:10 AND ENDING 19:00 BASED ON 1 UL - 22 1-22 1-20 1.40 40:0 50:0 51:0 51:0 51:0 51:0 51:0 51:0 5		00. PERC	LEQ	73.6 53.9	00. PERC	LEQ	74.1 54.8	00. PENC	LEG	71.4 53.8	00. PERC	_LE9_	73.3	00. PERC	-LEQ	73.2 61.6	00. PERC	LEG	71.U 53.6
	ABLE 2 (continued) JUNE 9, 1976, 14:00 ONE-HOUR RUNS	GATA SUMMARY FOR THE TIME PERTOD BEGINNING 14:00 AND ENDING 15:00 BASED ON L	1914 - 1-35 - 1-35 - 1-85 - 1-87 - 1-20 - 1-50 - 1-50 - 1-35 - 1-35 - 1-35 - 1-35	1 64.1 65.7 66.9 68.2 69.3 70.3 71.0 71.9 72.9 74.3 76.4 78.7 82.2 2 46.8 47.9 48.9 49.6 50.3 51.0 51.7 52.7 53.7 55.0 56.8 58.5 61.1	DATA SUMMARY FOR THE FINE PERIOD BEGINNING 15:00 AND ENDING 16:00 BASED ON L	ANL L 22 L 25 L 20 L 80 L 80 L 50 L 50 L 50 L 50 L 30 L 20 L 10 L 5 L 1	1 64.2 66.6 68.1 69.6 70.5 71.2 71.9 72.6 73.5 74.7 77.0 78.9 82.1 2 48.6 49.5 50.0 50.8 51.4 52.1 52.8 53.5 54.2 55.3 57.2 58.5 64.3	DATA SUMMARY FOR THE TIME PERTOD BEGINNING 16:00 AND ENDING 17:00 BASED ON L	AML -1-99 1-95 1-90 1-10 1-60 1-50 1-50 1-50 1-30 1-20 1-30	1 64.2 55.4 55.0 57.0 57.8 68.3 59.1 59.8 70.8 71.8 73.9 75.8 75.8 2 45.9 47.9 48.4 49.1 49.7 50.1 50.6 51.2 52.1 53.1 55.3 58.6 55.0	DATA SUMMARY FOR THE TIME PERTOD HEGINNING 17:00 AND ENDING 18:00 BASED ON 1	ANL 1.22 1.25 1.30 1.80 1.10 1.60 1.50 1.40 1.30 1.20 1.20	1 65.1 66.9 68.0 69.3 70.2 70.8 71.3 71.9 72.6 73.8 75.7 77.8 81.7 2 47.5 48.2 48.6 49.2 49.7 50.1 50.6 51.1 51.7 52.6 54.0 55.4 64.0	DATA SUMMARY FOR THE TIME PERIOD REGINNING IN: DU AND ENDING 19:00 BASED ON I	1011 - 72 - 123 - 130 - 130 - 120 - 150 - 150 - 140 - 130 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120	1 64.0 65.7 67.0 68.4 69.4 70.1 70.8 71.5 72.0 73.2 75.2 77.9 81.6 2 48.3 49.1 49.8 50.9 51.8 53.0 54.7 57.7 61.5 65.8 67.0 67.0 67.1 Ch. 2, 18:00 to 19:00, 12 dB excess. disturbance intermittent, no bit pattern.	UATA SUMMARY FOR THE TIME PERIOD BEGINNING 19:00 AND ENDING 20:00 BASED ON I	ANL 12 12 12 12 12 12 12 12 12 12 12 12 12	1 63.1 64.6 65.5 67.2 69.2 69.1 69.7 70.5 71.2 72.3 74.2 76.4 90.0 2 48.2 49.1 49.5 50.1 50.6 51.0 51.5 52.1 52.9 54.1 55.9 57.9 61.9
										38									

cont (cont	inued)					JUL	E 9, 1	976, 1	14:00 C	CONTINU	IED						3728
	DATA SUMMA	NY FOR	1 <del>3</del> 11	IME PE	R100	BEGINN	ING 2	100 AN	ID ENDI	1E 9N	00 BA	SED ON	100. PEI	SU US	ABLE UA	IA	:
CHAN	L 99 L 95	L 20	1 80	L 70	<u>1 60</u>	<b>L</b> -50	L. 40	1-30	L 20	51-1-1	1 5	-1-1-	LEQ	5737-	1516	NPL	-INI-
- 2	54.2 55.3 39.1 40.3	56.2 40.9	57.6	58.7	59.8	45.8	62.8	64 . 8 4 8 . 4	50.5	71.5	74.8	6.18	50.0	20.8	8.1 5.5	89.6 64.0	87.6 58.5
	DATA SUMMA	RY FOR	1 116	IME PE	R10D	BEGINN	E 9NI	100 AN	D ENDI	NG 4.	00 BA	SED ON	100. PE	ICENT US	ABLE DA	T A	
CHANL	L 22 L 25	L 90	L 89	L_20	<u>1. 60</u>	L-59	L-40	96-1-	1 20		<b>L</b> 5		LEQ	LEPS	<u>1516</u>	NPL	-161
5	54.5 55.9 37.9 39.3	50.5 40.4	57.4	58.4	59.3	60.5 45.1	62.0 46.2	41.6	49.2	21.5	15.4	<u>81.9</u> 56.2	69.4 48.1	31.0	5.0	89.6 60.9	63.0 54.8
· ·	DATA SUMMA	HY FOR	THE T	IME PE	R100 I	HE GINN	ING 4	:00 AN	D ENUI	NG 5:	00 BA	SED ON	100. PE	ICENT US	ABLE DA	Į A	
CHANL.	1-22 h 25	29 -	1.40	1 10	1 60	1 50	96 1-	1 30	1 20		L 5		LEQ	LEPS	1519	TdN	INI
5 –	54.8 56.1 38.2 39.8	57.0	58.0 42.3	58.9	60.0 45.0	61.3 46.1	62.7	64.1 48.8	50.4	69 <b>.</b> 8	72.8	80.8 58.8	68.4 49.8	4.1.9 4.1	5.7	85.3 64.3	78.2
1 2	DATA SUMMA	HY FOR	THE	IME PE	R100	BEGINN	1NG 5	100 AN	D ENDI	NG 61	00 BA	SED UN	100. PE	ICENT US	ABLE UA	V I	
CHANL	L 99 L 95	L 20 -	1 80	L_79	1 60	L 50	L 40	<u>05-1</u>	L 20	11	<b>L</b> 5		LEQ	LEPS	1516	NPL	INI
4	55.2 57.4 42.2 43.6 Ch. 1, 05:0	59.0 45.0 0 to 06	61.4 46.9	63.3 48.3 10 dB	65.1 49.1 excess	67.0 49.9	<b>69.2</b> 50.8 noted.	51.7	83.0 52.7	84 • 4 54 • 4	85.0 55.9	86.9 59.0	78.3	7.5 4.4	13.6 3.5	113.1 60.8	130.7 52.6
	DATA SUMMA	HY FOR	ТЭНТ	IME PE	R100	BE G I NN	ING 6	IOU AN	D ENDI	NG 7:	00 BA	SED ON	100. PE	ICENT US	ABLE DA	ΓA	
CHANL	L 99 L 95	20 -	L 80	1-10	L 60	L 50	L 40	1_30	L 20		2 7		LEQ	LEPS	1516	TdN	INI
5	49.8 51.2	51.7	10.1	71.7	53.1	53.4	73.8 53.8	54.5	15.5	55.6	79.6	83.3 59.3	75.0	4 • 2 • 6	3.4	83.6 58.4	71.9
	DATA SUMMA	RY FOR	THE T	IME PE	R100	BEGINN	1 9NI	:00 AN	O ENDI	NG B:	00 BA	SED ON	100. PEH	ICENT US	ABLE DA	١٧	
CHANL	L 22 L 25	1 20	L 80	L_10	L 60	L_50	0 <b>5</b> - 1-	מב ד	1 20		1 5		LEQ	LEPS	1516	NPL	INI
5 <b>-</b>	65.6 66.6 49.3 50.0	67.3 50.4	51.1	51.12	69.8 52.2	70.4	71.2	72.1	73.3	56.9	11.3	80.9	72.7 55.1	4.0	3.2 3.2	82.2 63.4	68.9 46.4

TABLE 2 (col

JUNE 9, 1976, 14:00 CONTINUED

			C TIME DEDITOR				•							
CHANL	L 22 L 25		40 L 20 L 6	0 L 50 L 4	0 - T - 30		1-16	BASEU			EPS .	HLE VAI LS16		INI
5	66+3 67+6 48+5 49+3	68.4 69 49.9 50	.6 51.1 51.	<u>6 72.4 73.</u> 5 52.2 52.	3 74.4 8 53.7	76.3	78.9	81.0 85 50.9 67	.3 75 .0 55	8.1	6.9 8.5	5. • • • • • •	88.8 66.9	80.4 51.5
	DATA SUMMA	ARY FOR THE	E TIME PERIOD	BEGINNING	9:00 ANE	D ENDING	10:00	BASED	DN 100. 1	PERCEN	IT USA	BLE DAT	, v	
CHANL	L 92 L 25	-1-22-1-	97 T TO T 0	9 T 28 T 7	0 -1 - 0	- <u>12</u> -	T-18 -1		L_ LEI	۲ اد	SHE	<u>. LSIG</u>	NPL	-INI-
ح ۲	65.7 68.3 49.2 50.1	69.6 70 50.5 51	.2 <u>11.1 12</u> .	4 52.9 53.	9 74.9	16.5	79.3	80•6 83 59•6 62	. 9 75	86	5.4 2.8	4.8 3.7	88.0 64.4	78.5
	DATA SUMMA	ARY FOR THE	E TIME PERIOD	BEGINNING 1	0:00 ANL	D ENDING	11:00	BASED	00 1 00 1	PERCEN	IT USAI	BLE DAT	ď	
CHANL	L 99 L 95	1-90 1-1	07 T 00	<u>1 50 1 0</u>	0 1 30	L 20	- 10 -	<u> 5 b .</u>	LLE	٦ ط	इत्र	<u>9121</u>	777	-INI-
40	65.1 67.0 48.1 48.9	68.1 69. 49.5 50.	.7 70.5 71.	4 72.2 73. 4 52.0 52.	1 74.0 6 53.3	15.3	77.5	79.4 82 57.1 60	.5 74 .2 53	Q 4	5.0 2.2	4 . 2 2 . 9	45.2 60.8	75.8 44.3
	DATA SUMMA	ARY FOR TH	E TIME PERIOD	BEGINNING	1:00 ANG	D ENDING	3 12:00	BASED	0N 100. 1	PERCEN	IT USA	BLE DAT	A	
CHANL	L 99 L 95	L 90 L	80 L 70 L 6	2 L 50 L 4	0	L_20	<b>- 10</b>	_لل_	L LE	۲ ا	EPS.	<u> 1519</u>	NPL	INI
- ~	65.5 67.3 47.4	68.3 69 48.0 48	.6 70.5 71. .9 49.6 50.	2 72.1 73. 4 51.2 52.	1 74.3 2 53.3	75.9 55.0	78.5 58.5	80.8 84 63.5 61	.8 75 .0 56	5.	6.7 .1.5	5.0	1.11	79.0 60.0
•	DATA SUMMA	ANY FOR TH	E TIME PERIOD	BEGINNING 1	2:00 ANE	D ENDING	13:00	BASED	UN 100.	PERCEN	IT USA	BLE UAT	۲.	
CHANL	L 99 L 95	L 20 L	9 T 70 T 8	0 L 50 L 4	0E-1- 0	L 20 -	- 10 -	<u> </u>	1- LE	-	EPS .	1516	NFL	INI
- ~	64.3 66.0 46.0 46.8	67.4 69 47.3 48	.0 70.1 71.	0 71.8 72. 3 49.8 50.	6 73.0 5 51.3	75.3	77.8	80.0 83 57.8 65	. <u>3</u> 74	.6	6.8 2.8	4.7	₿6•₿ 64•2	79.0 48.6
	DATA SUMMA	ARY FOR THE	E TIME PERIOD	BEGINNING	3:00 ANG	D ENDING	14:00	BASED (	0N 100. 1	PERCEN	IT USAI	BLE DAT	, c	
CHANL	L 99 L 95	L 30 L	80 - 10 - F	2 L 50 L 4	<u>06-1</u> _0	L 20 -	L 10		L	L D	EPS .	9121	Tan	INI
- ~	64.4 66.4 45.7 46.6	67.1 69 47.2 48	.2 70.4 71. .3 49.1 49.	2 72.1 73. A 50.6 51.	1 74.1	15.7	78.2	79.9 82	.1 74	.1	4.6 2.4	4.7 5.8	86.8 70.9	79.5 60.2

41

91.8 141 86.9 64.7 JUL UDATA SUMMARY FOR THE TIME PERIOD BEGINNING 14:00 AND ENDING 14:00 BASED ON 100. PERCENT USABLE DATA DATA SUMMARY FOR THE TIME PERIOD BEGINNING 22:00 AND ENDING 7:00 BASED ON 100. PERCENT USABLE DATA L516 5 . ] 4 . 0 LEPS 10.7 73.9 LEQ 1 55.9 56.7 61.5 65.2 67.4 69.9 70.0 71.1 72.3 73.8 76.6 79.5 84.7 2 40.3 43.4 45.9 48.3 49.4 50.3 51.1 51.9 52.8 54.0 56.2 59.0 67.0 CHANL L 22 L 25 L 20 L 80 L 20 L 60 L 50 L 50 L 40 L 30 L 20 L 10 L 5 L 1 JUNE 9, 1976, 14:00 CONTINUED 9 HOURS OF NIGHTIME 24 HOUR RUN

95.5 59.0 -INI-91.2 1519 7.2 LEPS 18.5 LEU 72.8 51.2 CHANL L 22 L 25 L 90 L 80 L 70 L 60 L 50 L 50 L 40 L 30 L 20 L 10 L 5 L 1 55.0 56.8 58.0 60.1 62.1 64.1 65.7 67.6 69.5 71.8 74.9 79.1 84.7 39.0 41.2 42.7 44.8 46.4 47.8 48.9 50.1 51.4 52.7 54.2 55.6 59.5 

3730

TABLE 2 (continued)

(continued)
2
TABLE

JUNE 9, 1976, 14:00 CONFINCED

•

8 SHORT RUNS (coincident with traffic counts)

IJ	ANL	L_99	L_95	L_20	L-80	L_10	L_60	L_50	L_40	L30	L_20	L_12	L_5_		LEU	<b>LEPS</b>	L516	NPL_	INI
	5 - 2	64.6 46.8	66.2 41.9	67.2 48.7	68.5 49.6	69.5 50.2	70.5	71.1	72.0 52.4	12.9	74.1 54.3	75.9	78.1 57.9	81.4 61.9	13.1	3.8	3.7	92.7	71.
			DATA S	имманү	FOR THE	TIME P	ER10D B	EGINNIN	16 14:58	) AND EN	10 ING 15	10 IE:	SED ON	100. PE	RCENT U	SABLE D	ATA		
ä	JANL	L_92	L_95	L_20	L_80	L_70	<u>1 60</u>	L_50	1 40	L_30	L_20	L_10	L-5_		LEO	LEPS	L516	NPL_	IN
	- ~	63.0 48.4	66.1 49.4	67.4 50.0	69.2 51.0	70.0	70.8 52.6	71.5 53.2	72.3	73.4	74.8	77.0	79.0 58.8	82.4 64.4	73.9	5.6 4.5	4.4 3.3	85.1 63.6	76 49
		0	NATA SUI	ЧМАНҮ F	OR THE	IIME PE	R100 BE	6 I NN I NG	15:31	AND END	191 9NI	05 BASI	ED ON 1	00. PER4	CENT US	ABLE DA	ΙA		
CH		99	L_95	L_20	L_80	٢-10	L_60	L_50	L 40	1_30	L_20	110	5	۲-۱-	LEO	LEPS	<b>L51</b> 6		INT
- 2		55.8 49.3	67.0 49.8	68.1 50.3	69.7 50.9	70.8 51.4	71.5 52.0	72.1	72.7 53.4	73.6	74.7 55.2	76.8 57.2	78.9 58.8	82.2 64.5	73.9	3.6 5.6	3.7 3.5	83.4 63.7	12.

0131

67.2 41.0

80.7 59.6

3.6 2.8

4.3 7.0

71.5

80.1

76.0 56.3

74.1

72.1

71.2

70.2

L 50 69.5 50.3

> 68.8 49.9

L__70 68.1 49.5

> 67.4 49.0

66.4 48.3

65.9 47.8

64.8 47.0

- 2

TNT

NPL

1516

LEPS

LEQ

5-1

1-10

L.20

L_30

1 40

L_60

L_80

L_90

L. 25

L_99

CHANL

								JUNE 9,	1976,	14∶00 С	JUNT TRUE	a						732	
1				:															
			DATA SL	MMARY 1	FOR THE	TIME PE	R100 BE	9 N N N I 9	16:41	AND END	1 NG 17:	15 BAS	ED ON 1	.00. PER	CENT US	ABLE DA	IA		
	CHANL	L_99	L_95	L_20	L_ <u>0</u> 0	L_12	L 60	L_50	L 40	L_30	L_20		L 5		LEQ	57371	L516	TAN	TNT
ŧ.	- 2	64.5 47.9	65.9 48.5	66.5 49.0	67.7 49.6	68.5 50.2	69.4 50.7	70.2	70.9	71.7 52.6	73.1 53.4	74.6 55.8	76.6 59.4	81.2 65.9	72.2 54.4	5.6 10.2	а. 5. С.	81.1 63.5	68.9 46.3
			DATA SL	н тялими	FOR THE	TIME PE	FRIOD RE	6 I NN I NG	17:15	AND END	11 9NI	46 BAS	E0 0N 1	.00. PER	CENT US	SABLE DA	IA		
	CHANL	L_22	22-J	L_20	L_80	٢70	ل <u> 60</u>	L_50	L_40	L30	L_20	L_10	L 5	L_1_	LEO	LEPS	1516	- TAN	INT
44	~ ~	65.6 47.5	67.2	68.2 48.6	69. l	70.2	70.8 49.8	71.3 50.2	50.5	72.3 51.0	13.3	75.0	77.1	80.6 67.0	72.6 53.2	2.6	2.2	80.0 59.0	65.5 36.6
			DATA S	UMNARY	FOR THE	E TIME P	ERIUD B	EGINNIN	3 17:45	AND EN	01NG 18	:30 BA	SED ON	100. PE	RCENT U	SABLE D	ATA		
	CHANL	L_22	L_95	L_90	L_ <u>90</u>	11_1	L_60	L_50	L_40	L_30	L_20	1_10	L 5	L_1_	LEQ	LEPS	L516	NPL_	INI
1	-	64.5 48.0	66•2 48•9	67.5 49.4	69 <b>.</b> 0 50 <b>.</b> 3	69.8 50.9	70.6	71.2 52.0	71.7 52.8	72.4 53.6	73.7 54.5	15.1 55.8	78.2 57.4	81.3 61.2	73.1	5.6 3.1	3.5 2.9	02.1 61.0	70.244.8
			DATA SL	лммару I	FOR THE	TIME PE	ER100 BE	9 I NN I NG	10:30	AND END	1NG 19:	04 BAS	ED ON 1	100. PER	ICENT US	SABLE DA	A I		
	CHANL	L_99	L_25	L_90	L_80	L_10	ل <u> 60</u>	L_52	<u>1 40</u>	L_30	L_29	1-10	L_5_	<b>-----</b>	LEO	LEPS	- <u>516</u> -	NPL_	TNI
	- 2	63.9 48.7	65.5 49.7	67.1 50.5	68.5 52.3	69.4 56.8	70.1	70.8 62.1	71.4	72.1	73.267.0	75.3 67.0	78.0 67.0	81.9 67.0	73.2 63.7	13.1	5.6 .0	82.3 73.6	70.1 86.6

CONCLUDES JUNE 9, 1976, 14:00

3'

JUNE 10, 1976, 15:00

2 ONE-HOUR RUNS

13.6 67.1 73.1 INI -INI-83.8 78.9 H2.2 71.4 IdN NPL DATA SUMMARY FOR THE TIME PERIOD BEGINNING 16:00 AND ENDING 17:00 BASED ON 100. PERCENT USABLE DATA DATA SUMMARY FOR THE TIME PERIOD BEGINNING IS:00 AND ENDING 16:00 BASED ON 100. PERCENT USABLE DATA 0121 2431 3.9 7.5 L516 3.3 7.4 LEPS 3.6 4.5 6.7 6.7 LEQ 73.8 73.8 LEU 81.8 67.1 CHANL -L 92 L 95 L 90 L 80 L 70 L 60 L 50 L 50 L 30 L 20 L 10 L 5 L L 65.3 67.0 67.8 69.1 70.1 71.0 71.8 72.4 73.4 74.5 76.8 78.6 82.1 47.9 48.9 49.6 50.6 51.8 53.3 55.1 57.4 59.1 61.2 64.7 67.0 67.1 CHANL L 22 L 25 L 30 L 80 L 70 L 60 L 50 L 40 L 30 L 20 L 10 L 5 L 1 68.1 69.0 70.0 70.7 71.3 72.0 72.6 73.4 74.4 76.2 78.0 49.2 49.8 50.8 51.6 52.7 53.7 54.8 56.0 57.9 63.1 67.1 65.8 48.2 - ~ - 2

CONCLUDES JUNE 10, 1976, 15:00

-	TABL.	ABLE 2 (continued)	JUNE 10,	1976, 18:0	0						377
	12 ONI	2 ONE-HOUR RUNS				·					34
		DATA SUMMARY FOR THE TIME PER	IOD BEGINNING 18:00 V	ND ENDING	19:00	BASED ON	100. PERC	ENT USA	BLE DAT	٩	
-	CHANL	IANL L 92 L 95 L 90 L 80 L 80	L 60 L 50 L 40 L 3	0 1 20 1	10		LEO	LEPS	1516	NPL	INI
	1	1 61.3 62.9 64.6 67.3 68.9 2 41.7 42.5 43.0 43.0 44.6	70.0 71.0 71.7 72.	4 13.7 5 52.7	77.1 81	.8 83.7 .4 64.4	14.2	6.6 11.4	4.8 8.7	86.4 15.6	84.6
		DATA SUMMARY FOR THE TIME PER	100 BEGINNING 19:00 A	ND ENDING	20100	BASED ON	100. PERC	ENT USA	BLE UAT	A	
-	CHANL	JANL L 22 L 25 L 20 L 20 L 20 L 20	L 60 L 50 L 40 L 3	0 T 20 1	1 01	5	LEQ	LEPS	1516	TAN	INI
	- 2	1 63.8 66.0 67.2 68.1 69.8 2 42.9 43.9 44.5 45.6 46.4 Ch 1 19.00 to 02:00 7 dB ex	10.1 71.7 72.8 75. 47.3 48.2 49.2 50. xcess, lights showed a	1 82.3 4 4 52.7 n overload	83.0 83 57.0 59	.4 84.7 .8 64.4 ant bit pa	77.8 53.3 tterns.	4.0	8.9 9.9	100.4 70.7	100.3
	•	DATA SUMMARY FOR THE TIME PER	IOD BEGINNING 20:00 A	ND ENDING	21:00	BASEU ON	100. PERC	ENT USA	ULE DAT	A	
	CHANL	JANL _ L 22 _ L 25 _ L 20 _ L 80 _ L 20	L 60 L 50 L 40 L 3	0 1 20 1	10 1-	5 4 1	LEQ	LEPS	<u>1516</u>	NPL	INI
	- 2	1 60.1 62.3 63.6 65.4 66.9 2 43.3 44.2 44.6 45.3 45.9	68.0 69.1 70.0 71. 46.6 47.3 48.2 49.	2 12.5	75.2 80	•1 83.4 •9 64.4	73.2 52.8	9.4	4 9 9	85.5	80.1
×		DATA SUMMARY FOR THE TIME PER	XIOD BEGINNING 21:00 A	ND ENDING	22100	BASED ON	100. PERC	ENT USA	BLE DAT	×	
-	CHANL	JANL _ 4 22 _ 4 25 _ 4 20 _ 4 80 _ 4 70	L 60 L 50 L 40 L	L 22 L 01	-1.91-1	5 1	LEQ	LEPS	1516	THN	TNI
	1 S	1 61.4 63.1 64.3 65.9 56.9 2 42.3 43.0 43.5 44.2 44.9	67.8 68.7 69.6 70. 45.6 46.5 47.5 48.	6 72.0 8 50.9	17.2 82 54.5 59	•4 83.5 •1 64.4	74.0	9.7	6.3	91.1 68.5	86.1 57.6
		DATA SUMMARY FOR THE TIME PER	2100 BEGINNING 22:00 A	ND ENDING	00:62	BASED ON	100. PERC	ENT USA	HLE DAT	×	
	CUANL	IANL L 22 L 25 L 20 L 80 L 70	L 60 L 50 L 40 L	10 1 20		5-4-1	LEQ.	LEPS	1516	TAN	-INI-
	2	1 59.7 62.2 63.6 65.5 66.9 2 39.4 40.5 41.4 42.5 43.4	68.1 69.5 71.2 75. 44.4 45.4 46.3 47.	6 82.1 2 48.5	82.7 83 53.3 59	.2 85.0	11.8	4.6 17.2	10.3 6.1	104.2	110.3 58.9
		DATA SUMMARY FOR THE FIME PER	V OD BEGINNING 23:00 V	ND ENDING	00:	BASED ON	100. PERC	CENT USA	BLE DAT	٨	
2.	CHANL	IANL _L_22 _L_25 _L_20 _L_80 _L_10 _	L 60 L 50 L 40 L 3	10 1 20	1 91 1	5-1-1-	LEQ	LEPS	-1516	- NPL	INI
	- 2	1 58.3 60.5 61.7 63.0 64.4 2 37.6 38.8 39.4 40.3 41.1	65.8 67.0 68.3 69. 42.0 43.1 44.5 46.	2 48.4	78.3 82 53.6 59	•5 83.6	73.9 51.1	11.0	8.8 8.2	96.5 12.1	98.3 66.4

JUNE 10, 1976, 18:00 CONTINUED

ł	INI	97.4 35.9		TNI	127.6 49.9		INI	104.4		INI	87.1 36.0		INI	98.5 58.8		INI	84.8 45.8
A	าสห	94.7 53.7	×,	THN	111.7	A	NPL	96.6 58.4	A	Idn	86.9 49.8	, A	TAN	94.9	A	IdN	87.3 60.7
WHLE DA	1516	8.5 3.7	BLE DAT	-1510	]4 ¢ 5 8	BLE DAT	1516	9.9 5.4	HLE DAT	1516	7.9 3.6	BLE VAT	1516	6.	BLE DAT	9151	6.2 3.1
ENT US	-LEPS	12.7 50.2	ENT USA	-LEPS	11.2	ENI USA	2431	17.7 92.6	ENT USA	LEPS	18.6 2.5	ENT USA	LEPS	20.1 22.9	ENT USA	LEPS	12.4 2.8
00. PERC	1EQ	72.8	 00. PERC	LEQ	14.3	IO: PERC	LEO	71.1	00. PERC	LEQ	66.6 40.4	0. PERC	LEQ	71.1	0. PERCI	LEU	71.5
DATA SUMMARY FOR THE TIME PERIOD BEGINNING :00 AND ENDING 1:00 BASED ON L	5HANL -L-22 -L-22 -L-22 -L-92 -L-12 -L-52 -L-52 -L-52 -L-32 -L-12 -L-5L-1	1 55.2 57.8 59.3 61.1 62.4 64.0 65.4 66.6 08.2 70.4 76.3 81.6 83.0 2 36.1 37.0 37.5 38.2 38.8 39.3 39.9 40.5 41.2 42.3 44.6 45.9 54.9	DATA SUMMARY FOR THE TIME PERIOD BEGINNING 1:00 AND ENDING 2:00 BASED ON 10	CHAML L 22 L 25 L 20 L 80 L 70 L 60 L 50 L 40 L 30 L 20 L 10 L 5 L 1	1 52.4 54.3 55.9 57.8 59.4 69.2 62.6 64.7 67.1 71.1 81.3 81.9 83.8 2 35.1 30.0 36.5 37.2 37.8 38.7 39.9 41.3 43.0 44.7 47.3 50.7 56.3	UN. 1, UZ:UU, END OF OVERJOAG. DATA SUMMARY FOR THE FLATOD BEGINNING ZIQU AND ENDING 3100 BASED ON 10	CHAML L 22 L 25 L 20 L 80 L 70 L 60 L 50 L 40 L 30 L 20 L 10 L 5 L 1	1 51:1 52:2 53:5 55:8 57:3 59:1 61:0 63:0 65:6 68:6 73:8 80:3 02:1 2 33:4 34:9 35:8 36:5 37:1 38:0 39:1 40.6 42.7 44.9 47.0 52.7	DATA SUMMARY FOR THE TIME PERIOD BEGINNING 3:00 AND ENDING 5:00 BASED ON 10	CHANL L 22 L 25 L 20 L 80 L 70 L 60 L 50 L 40 L 30 L 20 L 10 L 5 L 1	1 51.2 52.5 53.6 55.2 56.4 57.5 59.3 60.9 62.9 65.4 69.4 72.9 78.8 2 34.1 35.0 35.5 36.2 37.0 37.7 38.5 39.4 40.4 41.5 43.2 44.3 46.5	DATA SUMMARY FOR THE TIME PERIUD BEGINNING 4:00 AND ENDING 5:00 BASED ON 10	CHANL L 22 L 25 L 20 L 90 L 70 L 60 L 50 L 40 L 30 L 20 L 10 L 5 L 1	1 51.1 52.7 54.0 55.8 57.4 59.1 60.7 62.3 54.6 67.5 72.6 80.8 82.6 2 35.1 36.1 36.8 38.3 39.6 40.7 42.0 43.4 44.9 46.6 49.8 53.8 60.8	DATA SUMMARY FOR THE TIME PERIOD BEGINNING 5:00 AND ENDING 6:00 BASED ON 10	CHANL L 22 L 22 L 22 L 22 L 22 L 52 L 50 L 50	1 54.8 57.4 59.2 61.6 63.1 64.9 66.4 68.0 69.7 71.6 74.3 77.3 82.5 2 45.9 47.2 48.0 49.0 49.7 50.4 51.0 51.6 52.2 53.2 55.0 57.5 60.4

47

B HOURS OF NEGHTIME     B HOURS OF NEGHTIME     DATA SUMMARY FOR THE TIME PERIOD REGINNING 22:00 AND ENDING 6:00 BASED ON TOD. PERCENT USABLE DATA     UATA SUMMARY FOR THE TIME PERIOD REGINNING 22:00 AND ENDING 6:00 BASED ON TOD. PERCENT USABLE DATA     CHANL 1 99 1 95 1 90 1 80 1 10 1 50 1 50 1 40 1 30 1 20 1 10 1 5     1 51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 114.5 134.4 35.7 36.6 38.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 21.4 7.6 68.3 66.3 66.1 104.5 144.5 145.5 145.5 54.3 61.0 21.4 7.6 68.3 66.1 144.5 144.5 145.5 145.5 54.3 61.0 21.4 7.5 145.5 66.1 144.5 144.5 145.5 145.5 54.3 61.0 21.4 7.5 145.5 66.1 144.5 144.5 145.5 145.5 54.3 61.0 21.4 7.5 145.5 66.1 144.5 144.5 145.5 145.5 54.3 61.0 21.4 7.5 145.5 66.1 144.5 144.5 145.5 145.5 54.3 61.0 21.4 7.5 145.5 66.1 144.5 144.5 145.5 145.5 54.3 61.0 21.4 7.5 145.5 66.1 144.5 144.5 145.5 145.5 145.5 54.3 61.0 21.4 7.5 145.5 66.1 144.5 144.5 145.5 145.5 54.3 61.0 21.4 7.5 145.5 66.1 144.5 144.5 145.5 145.5 54.5 54.5 54.	8 HOURS OF NIGHTTIME DATA SUMMARY FOR THE TIME PERIUD BEGINNING 22:00 AND ENDING 6:00 BASED ON 100. PERCENT USABLE DATA UATA SUMMARY FOR THE TIME PERIUD BEGINNING 22:00 AND ENDING 6:00 BASED ON 100. PERCENT USABLE DATA CHAIL 192 1 95 1 90 1 00 1 10 1 60 1 50 1 40 1 30 1 20 1 10 1 5 1 1 160 1 1EPS 1515 MPL 1N1 1 51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 78.1 82.0 83.5 73.4 12.9 10.6 100.6 114. 2 34.4 35.7 36.6 38.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 49.0 21.4 7.6 68.3 66.	B HOURS OF NICHTTIME     B HOURS OF NICHTTIME     DATA SUMMARY FOR THE TIME PERIOD REGINNING 22:00 AND ENDING 6:00 BASED ON 100. PERCENT USABLE DATA     DATA SUMMARY FOR THE TIME PERIOD REGINNING 22:00 AND ENDING 6:00 BASED ON 100. PERCENT USABLE DATA     CHANL L 92 L 92 L 92 L 92 L 92 L 10 L 50 L 50 L 40 L 20 L 10 L 5. L 1 L 60 L EPS L 51.0 MPL     1   51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 114.1 2 34.4 35.7 36.6 38.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 49.0 21.4 7.6 68.3 66.3 66.1 00.100.5 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.6 114.1 2 0.0 100.0 100.6 114.1 2 0.0 100.0 100.6 114.1 2 0.0 100.0 100.6 114.1 2 0.0 100.0 100.6 114.1 2 0.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100	B HOURS OF NIGHTTIME     B HOURS OF NIGHTTIME     DATA SUMMARY FOR THE TIME PERIOD BEGINNING 22:00 AND ENDING 6:00 BASED ON 100. PERCENT USABLE DATA     UAHL 192 155 190 180 110 150 150 150 140 130 120 110 15 11 160 1EPS 1519 MPL     1   51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 11.     2   34.4 35.7 36.6 380.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 49.0 21.4 7.6 68.3 66.4 68.4 71.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 11.     2   34.4 35.7 36.6 380.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 79.0 21.4 7.6 68.3 60.4 68.4 71.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 11.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 11.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 11.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 11.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 11.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 11.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 11.0 70.1 81.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 7			5
8 HOURS OF NICHTTIME DATA SUMMARY FOR THE TIME PERIOD BEGINNING 22:00 AND ENDING 6:00 BASED ON 100. PERCENT USABLE DATA CHAML <u>L 92 L 95 L 99 L 89 L 89 L 10 L 50 L 50 L 40 L 30 L 20 L 10 L 5 L 1 LEQ. LEPS L516 MPL INL</u> 1 51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 114. 2 34.4 35.7 36.6 38.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 49.0 21.4 7.6 68.3 66.1	8 HOURS OF NIGHTIME DATA SUMMARY FOR THE TIME PERIOD BEGINNING 22:00 AND ENDING 6:00 BASED ON 100. PERCENT USABLE DATA CHAML 1 99 1 95 1 90 1 80 1 70 1 60 1 50 1 30 1 30 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B HOURS OF NICHTTIME     DATA SUMMARY FOR THE TIME PERIOD BEGINNING 22:00 AND ENDING 6:00 BASED UN 100. PERCENT USABLE DATA     DATA SUMMARY FOR THE TIME PERIOD BEGINNING 22:00 AND ENDING 6:00 BASED UN 100. PERCENT USABLE DATA     CHAML 1 99 L 95 L 90 L 00 L 70 L 60 L 50 L 40 L 30 L 20 L 10 L 5 L 1 LEO LEPS 1516 MPL 101     1   51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 114.     2   34.4 35.7 36.6 38.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 79.0 21.4 7.6 68.3 66.     CONCLUDES JUNE 10, 1976, 18:00	8 HOURS OF NIGHTTIME 0.474 SUMMARY FOR THE TIME PERIOD BEGINNING 22:00 AND ENDING 6:00 BASED ON 100. PERCENT USABLE DATA CHAIN 1 99 1 95 - 1 90 1 90 1.70 1.60 1.50 1.40 1.30 1.20 1.10 1.5 1.1 1.60 - LEPS 1.516 - MPL - 11 1 51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 11 2 34.4 35.7 36.6 38.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 49.0 21.4 7.6 68.3 66 CONCLUDES JUNE 10, 1976, 18:00		JUNE 10, 1976, 18:00 CONTINUED	730
DATA SUMMARY FOR THE TIME PERTUD BEGINNING 22:00 AND ENDING 6:00 BASED ON 100. PERCENT USABLE DATA Chan <u>L 99 L 95 L 90 L 80 L 70 L 60 L 50 L 50 L 30 L 20 L 10 L 5 L 1 LEQ LEPS LSIG MPL INL</u> 1 51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 78.1 82.0 83.5 73.4 12.9 10.6 100.6 114. 2 34.4 35.7 36.6 38.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 49.0 21.4 7.6 68.3 66.1	DATA SUMMARY FOR THE TIME PERIOD REGIMNING 22:00 AND ENDING 6:00 BASED ON 100. PERCENT USABLE DATA CHANL <u>L 92 L 95 L 90 L 80 L 70 L 50 L 50 L 40 L 30 L 20 L 10 L 5 L 1 LEQ LEPS LSIG MPL INT</u> 1 51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 78.1 82.0 83.5 73.4 12.9 10.6 100.6 114. 2 34.4 35.7 36.6 38.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 49.0 21.4 7.6 68.3 66.	Data Summary For the Time Period Reginning 22:00 and Ending 6:00 based on 100. Percent Usable Data     CHANL   L 22   L 22   L 22   L 20   L 30   L 30   L 30   L 30   L 10   L 10 <thl 10<="" th="">   L 10   L</thl>	UNTA SUMMARY FOR THE TIME PERIOD REGINNING 22:00 AND ENDING 6:00 BASED ON 100. PERCENT USABLE DATA CHAML L 92 L 92 L 90 L 00 L 10 L 50 L 50 L 30 L 30 L 20 L 10 L 5 L 1 LEPS L51G MPL _11 1 51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 78.1 82.0 83.5 73.4 12.9 10.6 100.6 11 2 34.4 35.7 36.6 38.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 49.0 21.4 7.6 68.3 66 CONCLUDES JUNE 10, 1976, 18:00	HOURS OF NIGHTTIME		
CHANL L 22 L 22 L 20 L 00 L 70 L 50 L 50 L 50 L 30 L 20 L 10 L 5 L 1 LEO LEPS L51G MPL INL 1 51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 78.1 82.0 83.5 73.4 12.9 10.6 100.6 114. 2 34.4 35.7 36.6 38.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 49.0 21.4 7.6 68.3 66.3	CHANL L 22 L 22 L 20 L 80 L 70 L 50 L 50 L 50 L 30 L 20 L 10 L 5 L 1 LE9 LEPS LS1G MPL IN 1 51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 78.1 82.0 83.5 73.4 12.9 10.6 100.6 114. 2 34.4 35.7 36.6 38.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 49.0 21.4 7.6 68.3 66.	CHANL L 22 L 22 L 20 L 80 L 70 L 50 L 50 L 50 L 30 L 20 L 10 L 5 L 1 L 160 LEPS L51G MPL INL 1 51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 78.1 82.0 83.5 73.4 12.9 10.6 100.6 114. 2 34.4 35.7 36.6 38.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 49.0 21.4 7.6 68.3 66.3 66. CONCLUDES JUNE 10, 1976, 18:00	CHAML L 92 L 92 L 92 L 90 L 90 L 70 L 50 L 50 L 50 L 30 L 20 L 10 L 5 L 1 LEO LEPS L516 MPL II 1 51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 78.1 82.0 83.5 73.4 12.9 10.6 100.6 11 2 34.4 35.7 36.6 38.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 49.0 21.4 7.6 68.3 60 CONCLUDES JUNE 10, 1976, 18:00	DATA SUMMARY FOF	Y FOR THE TIME PERIOD BEGINNING 22:00 AND ENDING 6:00 BASED ON 100. PERCENT USABLE DATA	
1 51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 114. 2 34.4 35.7 36.6 38.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 49.0 21.4 7.6 68.3 66.3	1 51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 114. 2 34.4 35.7 36.6 38.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 49.0 21.4 7.6 68.3 66.	1 51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 114. 2 34.4 35.7 36.6 30.0 39.2 40.5 41.8 43.5 45.6 40.2 51.5 54.3 61.0 49.0 21.4 7.6 68.3 66.3 CONCLUDES JUNE 10, 1976, 18:00	I 51.7 54.0 55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 70.1 82.0 83.5 73.4 12.9 10.6 100.6 11 2 34.4 35.7 36.6 30.0 39.2 40.5 41.0 43.5 45.6 48.2 51.5 54.3 61.0 49.0 21.4 7.6 68.3 66 CONCLUDES JUNE 10, 1976, 18:00	NANL 1 29 1 25 1 90	L 90 L 80 L 70 L 50 L 50 L 30 L 30 L 20 L 10 L 5 L 1 LEO LEVS L 510 -N	TN TN
		CONCLUDES JUNE 10, 1976, 18:00	CONCLUDES JUNE 10, 1976, 18:00	1 51.7 54.0 55.9 2 34.4 35.7 36.6	55.9 58.6 60.8 62.5 64.5 66.4 68.4 71.0 78.1 82.0 83.5 73.4 12.9 10.6 10 36.6 30.0 39.2 40.5 41.8 43.5 45.6 48.2 51.5 54.3 61.0 49.0 21.4 7.6 66	0.6 114 9.3 66

ţ
continued)
2
TABLE

JUNE 14, 1976, 12:43, 14:05, 15:10, 18:25

4 SHORT MEASUREMENTS

1         62.6         64.0         65.9         65.5         56.5         71.4         71.1         75.6         78.1         22.4         5.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         51.6         71.5         71.5         71.5         71.5         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.6         71.	1.12 7.12 2.110 29_J <u>HM13</u> 1.56.3 1.56.3	64.0       65.0       66.5       67.5       67.5       60.6       71.4       73.1       75.6       78.5         53.5       54.3       55.5       57.5       57.5       58.7       60.6       01.7       63.5       65.9       67.9         53.5       54.3       55.5       57.5       58.7       50.6       01.7       63.5       65.9       67.9         53.5       54.3       57.5       57.5       58.7       60.6       01.7       63.5       65.9       67.9         53.5       54.3       59.7       50.4       61.6       14.6       61.6       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9       61.9 <t< th=""><th>86.2 74. 71.9 62. 9 0N 100. Pt L 1. Lty 86.4 76.2</th><th>ности 115.7 8.6 КССИТ USA - LEPS 6.6</th><th>5.4 5.6 6HLE UAT</th><th>87.9 76.8</th><th></th></t<>	86.2 74. 71.9 62. 9 0N 100. Pt L 1. Lty 86.4 76.2	ности 115.7 8.6 КССИТ USA - LEPS 6.6	5.4 5.6 6HLE UAT	87.9 76.8	
UAIN SUMMARY FOR THE THAT THE FEATOD OF GIANAWE TAND ENDING TATES AND END	лтли 1101 - 112 1 66. 1 2.05	\ Summary Four THE TENE PERIOD AFGENHING 14:05 AND ENDING 14:35 BASE 	D UN 100. PE L. L LEV 86.4 76.2 70.2 61.0	HCENT USA LEPS 6.6 1.0	BLE UAL		77.5
СПАН 1 49 1 39 1 30 1 30 1 30 1 30 1 50 1 50 1 50 1 40 1 20 1 20 1 10 15 11 11 11 11 11 11 11 11 11 11 11 11	1 66.3 2.96 1 2.96 2		H. L. LEU 86.4 76.2 70.2 61.0	1.00 1.00 1.00 1.00	فلكل	V	
1       66.3       64.1       64.2       70.1       71.2       73.2       73.0       71.2       73.1       74.3       87.1       71.3       71.3       87.1       71.3       71.3       87.1       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.3       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4       71.4 <t< td=""><td>1 66.3 2 49.2</td><td>A. I. A. 2. 70. 1. 1. 12.5 13.2 14.0 14.9 16.2 18.1 41.4</td><td>86.4 76.2 70.2 61.0</td><td>0.7 0.1 2.0</td><td></td><td>- 171</td><td>141</td></t<>	1 66.3 2 49.2	A. I. A. 2. 70. 1. 1. 12.5 13.2 14.0 14.9 16.2 18.1 41.4	86.4 76.2 70.2 61.0	0.7 0.1 2.0		- 171	141
IDATA SUMMARY FOR THE TIME PERTUD REGIMINING IS:10 AND ENDING IS:39 BASED 0H 99. PERCENT USABLE DATA         CHAPL       L 92       L 95       L 90       L 10       L 0       L 20       L 30       L 40       L 10       L 10       L 10       L 111         CHAPL       L 92       L 95       L 90       L 10       L 0       L 20       L 30       L 30       L 40       L 10       L 20       L 10		51.0 51.9 53.1 54.2 55.2 56.4 57.9 29.8 62.2 64.9 67.0		SH INGJOA	4.Ĵ 6.6	1.18	11.3
CHAIL       L       92       L       92       L       92       L       92       L       92       L       92       L       94       L       94       L       94       L       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104       104	() A T	A SUMMARY FOR THE LIME PERIOD REGIMMING IS:10 AND ENDING 15:39 BAS	4 •66 NO 03		ABLE DAT	۱ ۷	
1       68.2       70.2       74.0       76.0       76.0       76.5       60.5       66.5       66.9       87.3       89.2       82.5       3.3       8.5       104.1       58.1         2       56.3       57.4       59.1       59.2       67.5       7.4       51.1       58.1       58.1         2       56.3       57.4       59.1       59.0       61.3       62.0       62.4       03.1       66.2       67.6       71.7       03.1       2.9       3.3       72.1       58.1         2       56.3       57.4       57.6       61.2       62.4       03.1       66.2       67.6       71.7       03.1       2.9       3.3       72.1       58.1         DATA SUMMARY FOR THE TIME PERIOD REGIMNING 18:25 AND ENDING 18:55       BASED ON 100. PERCENT USAHLE DATA         CHAM       L       29       L       29       L       29       L       20       104.1       104.1       104.1       104.1       104.1       104.1       104.1       104.1       104.1       104.1       104.1       104.1       104.1       104.1       104.1       104.1       104.1       104.1       104.1       104.1       104.1       104	CUAPL _L_99	<u>1 - 2 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 3</u>	1-1-	2444	<u>LS16</u>	Tam	-Int-
DATA SUMMARY FOR THE TIME PERIOD REGINNING 18:25 AND ENDING 18:55 BASED UN 100. PERCENT USAHLE DATA CHANL L 29 L 25 L 20 L 30 L 20 L 60 L 50 L 40 L 30 L 20 L 10 L 5 L 1 LEO LEPS LSTG APL -101 1 65.4 67.5 68.9 70.4 71.4 7272 72.7 73.5 74.1 75.0 76.7 78.4 82.9 74.5 4.0 3.1 82.3 69. 2 51.5 56.0 57.0 58.6 59.9 61.2 62.4 63.8 05.1 66.3 68.0 09.3 72.3 64.6 2.8 4.3 75.1 70.	1 6ñ.8	2 70.2 71.5 72.9 74.0 74.9 76.0 78.2 05.6 86.5 86.9 87.3 1 57.4 58.7 59.8 60.6 61.3 62.0 62.8 03.7 64.7 66.2 67.6	89.2 82. 71.7 63.	5 2.9	З•Я Э•З	104.3	103.0 58.7
CHANL L 22 L 22 L 22 L 22 L 22 L 22 L 52 L 52 L 52 L 22 L 12 L 5 L 1 L 160 L 52 L 51 L 1 L 5 L 1 L 5 L 5 L 5 L 5 L 5 L	DA	LTA SUMMARY FOR THE TIME PERIOD REGINNING 18:25 AND ENDING 18:55 BA	SED UN 100.	PERCENT U	SABLE D	4 I A	
1 65.4 67.5 68.9 70.4 71.4 72.2 72.7 73.5 74.1 75.0 76.7 78.4 82.9 74.5 4.0 3.1 82.3 69. 2 51.5 56.0 57.0 58.6 59.9 61.2 62.4 63.8 05.1 66.3 68.0 09.3 72.3 64.6 2.8 4.3 75.7 70.	CHANL _L_9	29 -L-25 -L-20 -L-80 -L-10 -L-60 -L-50 -L-40 -L-30 -L-20 -L-10 -L-5-	-L-L-	0 LEPS	L516	NPL	INI-
	1 65. 2 51.	4 61.5 68.9 70.4 71.4 72.2 72.7 73.5 74.1 75.0 76.7 78.4 5 56.0 57.0 50.6 59.9 61.2 62.4 63.8 05.1 66.3 68.0 09.3	82.9°74 72.3 64	.5 4.0 .6 2.8	1.6 4.3	82.3 75.7	69. 70.

.

49

.

\ SHORT HEADURARITS         \ SHORT HEADURARITS         0.113 SUMMARY FOR THE THE FERIOD BEGINNING 10:45 AND ENDING 10:56 BASED ON 100. PERCENT USABLE DATA         0.114       129       1.25       1.20       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50						00	TOBER 6	, 1977,	10:45,	12:25;	13:15;	iu:00						\$ <b>.</b>	/48
DATA SUMMARY FOR THE TIME PERIOD BEGINNING 10:155 AND ENDING 10:156 BASED ON 100: PERCENT USABLE DATA         EHML       L92       L92       L92       L90       L10       L11.0       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.1       15.	H SHC	IRT MEASU	UREMENTS	60															
CHARL       L-99       L-95       L-94       L-90       L-91       L-91       L-92       L-92       L-92       L-94       L-93       T-10       T-10 <tht-10< th="">       T-10       T-10</tht-10<>			DATA SI	UMMARY	FOR THE	TIME PE	R10D BE	9 I NN I NG	10:45	AND END	101 9NI	56 BAS	ED ON 1	00. PER	CENT US.	ABLE DA	IA		
1       69.1       71.4       75.0       75.1       73.7       79.3       79.4       91.1       91.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.0       21.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1       31.1 <t< td=""><td>CHANL</td><td>L_99</td><td>L_25</td><td>L_20</td><td>L_82</td><td>L_70</td><td>لاف ا</td><td>L_50</td><td>L-40</td><td>L_30</td><td>L_20</td><td>L_10</td><td>L5</td><td>-</td><td>LEO</td><td>LEPS</td><td>1516</td><td>NPL</td><td>INI</td></t<>	CHANL	L_99	L_25	L_20	L_82	L_70	لاف ا	L_50	L-40	L_30	L_20	L_10	L5	-	LEO	LEPS	1516	NPL	INI
DAIA SUMMARY FOR THE TIME PERIOD BEGINNING 12:25 AND ENDING 12:40 BASED ON 100. PERCENT USABLE DATA         CHARL       L-92       L-95       L-91       L-10       L-2       L-91       L	5	69.1 67.4	74.4	75.0	72.8	13.2	18.6	78.6	1.51	£.91	19.4	19.9 19.8	84.7	87.4 83.8	76.6	3•0 2•0	6.4 6.4	88.8 86.8	77.3
CHARK       L-92       L-93       T/1       G0.1       Click       Click <thcli< th="">       Click       Click</thcli<>			DATA S	UMMARY	FOR THE	TIME PE	RIOD BE	G INNING	12:25	AND ENC	121 9NI	40 BAS	ED ON 1	100. PEF	SCENT US	ABLE DA	1 T A	:	
1       69.0       72.2       73.9       74.9       75.4       76.7       78.1       78.5       60.1       63.3       95.4       65.4       69.1       63.3       1.9       65.1       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5       64.5 <td< td=""><td>CHANL</td><td>L-22</td><td>L_95</td><td>L_90</td><td>L_80</td><td>1.10</td><td>L_60</td><td>L_50</td><td>L_40</td><td>T-30</td><td>L.20</td><td>1 10</td><td>L.5</td><td>1</td><td>LEQ</td><td>LEPS</td><td>1516</td><td>NPL_</td><td>INI</td></td<>	CHANL	L-22	L_95	L_90	L_80	1.10	L_60	L_50	L_40	T-30	L.20	1 10	L.5	1	LEQ	LEPS	1516	NPL_	INI
Data Summary For the Time Period Beginning 13:15 and Ending 13:26 Based on 100. Percent Usable Data         Clidis       L_92       L_92       L_91       L_91       L_92       L_92       L_91       L_92       L_92       L_91       L_91 <th< td=""><td></td><td>69.0 53.4</td><td>72.2 55.8</td><td>73.9</td><td>74.9 58.0</td><td>75.4 59.7</td><td>76.7 60.6</td><td>78.1</td><td>78.5</td><td>19.2</td><td>01.0</td><td>83.3 66.4</td><td>85.4 67.4</td><td>88.9 69.1</td><td>- 80.1 63.3</td><td>4.2 1.9</td><td>4 C • 6</td><td>90.6 71.7</td><td>01.5 65.9</td></th<>		69.0 53.4	72.2 55.8	73.9	74.9 58.0	75.4 59.7	76.7 60.6	78.1	78.5	19.2	01.0	83.3 66.4	85.4 67.4	88.9 69.1	- 80.1 63.3	4.2 1.9	4 C • 6	90.6 71.7	01.5 65.9
Data Summary for the Time Period Beginning 13:15 and Ending 13:26 Based on 100. Percent Usable Data         CHANL       L_92       L_91       R_91.0       R_91.1       B3.1																			
CHANL       L_92       L_92       L_92       L_92       L_92       L_92       L_92       L_92       L_91       13.0       14.1       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       15.0       17.1       60.1       60.1       71.2       64.1       71.2       64.1       70.0       60.1       71.2       64.1       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0			DATA	SUMMARY	FOR THE	E TIME P	ERIOD B	IEGINNIN	6 13:15	AND EN	DING 13	:26 BA	SED ON	100. PE	RCENT U	SABLE D	A1A		
1       69.6       72.1       73.0       74.1       75.0       75.8       16.5       78.1       63.1       63.1       63.1       63.1       63.1       63.4       63.1       63.1       63.1       63.1       63.1       63.1       63.1       63.1       63.1       63.1       63.1       63.1       63.1       63.1       63.1       63.1       63.1       63.1       63.1       63.1       64.1       56.5       53.1       60.2       53.1       60.2       53.2       63.1       65.6       61.1       71.2       64.1       3.2       3.5       73.1       60         Data Summary FOR THE TIME PERIOD BEGINNING 14:00 AND ENDING 14:14       BASED ON       99. PERCENT USABLE DATA       10.1       11.2       12.2       11.2       12.2       11.2       12.2       11.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1       10.1 <td< td=""><td>CHAN</td><td>- L - 29</td><td>L_95</td><td>1 90</td><td>L_80</td><td>110</td><td>L_60</td><td>L_50</td><td>1<u>40</u></td><td>L_30</td><td>L_20</td><td>L_10</td><td>r-5</td><td>Ţ</td><td>LEQ</td><td>LEPS</td><td>LSIG</td><td>NPL</td><td>INI</td></td<>	CHAN	- L - 29	L_95	1 90	L_80	110	L_60	L_50	1 <u>40</u>	L_30	L_20	L_10	r-5	Ţ	LEQ	LEPS	LSIG	NPL	INI
Data Summary For the Time Period Beginning 14:00 and Ending 14:14 based on 99. Percent USABLE Data         CHAML       L_22       L_22       L_22       L_21       L_11       L_20       L_212       L_11       L_212       L_11       L_212       L_11       L_212       L_213       NPL       IN1         1       68.9       74.0       74.8       75.8       75.9       78.0       79.0       79.1       81.4       83.2       86.9       78.8       57.1       57.8       61.9       62.4       62.4       62.4       62.4       62.4       63.3       55.9       68.9       65.0       4.5       63.8       53.1       63.8       53.1       63.9       63.9       55.1       63.9       63.9       55.1       65.4       57.8       61.9       62.4       62.4       62.4       63.3       55.9       68.9       65.0       4.5       63.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8       53.8	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	69.6 56.8	72.1 58.3	73.0 59.2	74.1 60.2	75.0	75.8 61.8	16.5	11.6	78.7	79.6	81.7 67.0	63.7 68.1	87.9 71.2	10.9	3.2 3.2	4 • • • 9 • 5	89.4	11.
CHANL       L       29       L       90       L       90       L       90       L       90       10       L       10       L       10       L       20       L       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10			DATA S	UMMARY	FOR THE	TIME PE	R100 BE	<u>61 NN 1 NG</u>	14:00	AND ENC	141 OII0	14 BAS	100 ON	99. PEF	RCENT US	ABLE DA	A I A		
L 68-9 74-0 74-8 74-8 75-1 75-9 78-3 79-0 79-1 81- <u>4 83-2 86-9</u> 78-8 3-5 4-3 89-8 71- 2 54-8 55-7 56-4 57-1 57-8 61-9 62-4 62-4 62-4 62-4 63-3 65-9 68-9 62-0 4-5 -7 63-8 53-	CHANL	L - 22	L_95	L_90	L 80	1_10	<b>6</b> 0	L_50	L 40	L_30	L_20	11	L 5.	-	LEQ	LEPS	L516	NPL	INI
	5	68.9 54.8	74.0	74.8 56.4	74.8	15.1	15.8	15.9	78.3	19.0	19.1	81.4 63.3	83.2 65.9	86.9 68.9	78.8 62.0		6.4 7.	89.8 63.8	71.3 53.7

•

CONCLUDES OCT. 6, 1977, SHORT MEASUREMENTS

OCTOBER 6, 1977, 14:00

76.5 INI 88.3 68.5 - TAN DATA SUMMARY FOR THE TIME PERIOD BEGINNING 14:00 AND ENDING 14:15 BASED ON 100. PERCENT USABLE DATA L516 3.7 3.1 LEPS 2.2 3.0 78.8 60.5 LEQ 86.4 68.8 CHANL _L_22 _L_25 _L_20 _L_80 _L_10 _L_60 _L_50 _L_40 L_30 _L_20 _L_20 _L_1 70.4 72.4 73.7 75.1 75.8 76.5 77.1 77.8 78.7 79.9 81.9 83.5 54.1 55.6 56.4 57.2 57.9 58.5 59.1 59.7 60.4 61.4 63.0 64.5 - 2

CONCLUDES OCT. 6, 1977, 14:00

																		0
4 SHOF	VE MEASU	IRFMENTS																
		DATA SU	н тнанис	FOR THE	Пис РЕ	ALOD BE	0HINNI 93	14:22	AND ENL	11NG 14:	36 BAS	sen un	100. PEI	CENT US	AALE DA	ιία		
CHANL	L-99	<u>1-45</u>	L90	L. 40	<u>77</u>	L_60	L 50	1 49	L_30	L.20	1-19	<del>ار</del> _5	L-1-	LE0_	5737	1516	- IAN	INI
- ~	1.54 1.54	70.7 48.8	71.7	13.3	74.4 56.8	15.3 58.7	76.1 60.5	16.9	78.0	19.5	81.8 70.0	8J.9 72.2	87.6 76.5	18.6 66.0	7.U 7.B	4.5	90.1 85.2	82. 95.
															1			
		UATA 50	иммант н	FOR THE	TIME PE	-8100 Bt	9 NI NN E 9 E	14:46	AND ENL	11NG 15:	01 BAS	SED ON	100. PEI	CENT US	ABLE DA	ITA		
CHANL	L99	52-J	L_99	L_80	۲-1 <u>0</u>	L_60	L_50	L_40	L-30	L_20	1.10	<b>L</b> _5_	L_L_	LEQ	5737	512T	- 140	In I
- ~	69.2 43.1	12.1	1.64	74.6 51.8	75.7 53.9	76.4	17.4 51.9	78.4 60.3	19.6	81.1	83.3 69.5	85.7 72.6	89.8 78.8	HU.3 66.3	7.1 8.5	4.6 9.1	92.1 89.7	83. 101.
		DATA SU	иману т	FOR THE	TIME PE	-R10D_B	<u>9010015</u>	15:14	AND ENC	:51 9N10	29 BAS	5ED ON	100. PEI	RCENT US	AHLE DA	A L A		
CHANI.	<u>L 99</u>	L_95	L_20	1. <u>8</u> 0	ר זה	L_ <u>60</u>	L_50	1 40	L_30	L_20	L-10	<u> </u>		LEO	रतजा	1516	TAN	N
- ~	69.8 52.6	12.0	6.67 57.0	74.4	75.5 60.4	76.5 61.5	71.4	18.2	79.3	80.6 67.3	83.0 69.6	85.0 71.6	88.5 75.4	19.1	6.6 7.1	4 • 4 • 4	90.8 79.8	82. 11.
		DATA SU	иммаку т	FOR THE	Fime pr	H100 H	EG I NN I NG	15:40	AND F.M.	151 DNI0	55 BAS	SED ON	100. PEI	SCENT US	ABLE U/	AIA		
CHAIN	L_99	L_95	<u>190</u>	L_A <u>0</u>	٢- / ١	L. 60	L_50	L_40	L-30	L-20	L_12	1	L_1_	LEQ_	LEPS	1510	- TAN	10,
-~~	12.1 59.3	73.9 62.0	14.9 4.63	75.9 65.2	76.8 60.4	2.11.5	78.2 68.3	78.9	1.61	80.8	H2.4 73.6	84.2 75.9	88.2 77.1	79.9 10.2	6.1 6	3.3 4.2	88.3 80.9	74.

CONCLUDES AUG. 23, 1978, SHORT MEASUREMENTS

		DATA SI	лиман у	FOR THE	TIME PE	RIOB H	EGINNINC	11:05	AND EN	DING 11	19 BA	SED ON	100. PEI	RCENT US	SABLE D	AĮA		
CHANL	L_22	L_95	L_90	L_80	٢. 79	L-60	L_50	1 40	L-30	L_20	L_12	L_5_	L_1_	LEQ_	<b>LEPS</b>	5151	TAN	INT
- 0	67.9 59.8	71.1 62.4	12.4	13.7	74.5	15,3 66.99	16.2 67.8	76.9 68.8	78.0 69.9	79.3 71.5	0.5 74.0	83.6 76.3	86.4 79.1	70.5	6.4 6.8	4 • J 4 • B	88.9 82.8	74. 74.
		DATA SU	IMMARY F	TOR THE	TIME PE	R100 BE	9 N I NN I 9.	11:29	AND END	ING 11	44 BAS	SED ON 1	00. PE6	ICENT US	ABLE DA	v T A	1	
CHANL	L_92	L_25	L_90	L_80	L_79	L_60	L_50	L_40	L_30	L_20	L_10	L_5_	L_1_	LEQ_	LEPS	L516	- Tak	INI
- ~	10.3	71.9 59.9	73.1 60.6	14.3	75.1	75.9	76.6 64.3	11.4	78.3 66.1	19.4	81.4 64.6	0.60	85.8 73.6	78.4 66.4	6 <b>5</b> 7 3		87.9 77.1	76.
		DATA SI	<b>ЈММА</b> КТ	FOR THE	TIME PE	RIOD H	E G INNING	11:56	AND EN	21 9NIC	:10 BA	SED ON	100. PEI	RCENT US	ABLE DI	AIA		
CHANL	L_ 22	<u>1 25</u>	L_90	1_00	L_79	<u>ا ـ 60</u>	L-50	<u>1-40</u>	L_30	L-29	L_12	- <del>-</del> - <del>-</del> -	L_1_	LEQ_	5731	1516	NPL	NI
- 2	68.5 56.2	70.5 57.2	11.6	72.9	73.8 60.2	74.8	75.8 62.0	76.8 63.1	78.0 64.4	79.6	81.8 68.0	83.8 70.6	87.1 75.4	78.4	6.U 7.6	1.4	90.6	82. 68.
		DAIA SU	і тяаны	FOR THE	TIME PE	8100 BE	DN I NN 1 9	12:15	AND ENC	11 9 NIC	30 BAS	SED ON	100. PEH	RENT US	ABLE DI	AIA		
CHANL	L_99	1-95	1-90	L_80	L_70	1-69	L_50	L_40	L-30	L_20	1-10	<u>1 5 1</u>	L	LEQ	LEPS	1516	- TON	INI
1 2 INDE	67.6 56.6 FINITE V	70.0. 50.0 ALUE IN	71.5 58.8 LVALUE	73.2 59.6 NEAR L	74.3 60.3 INE 20	15.2	76.0	16.7 62.6	77.8 63.8	79.5	81.6 67.2	83.6 69.0	86.8	18.3	6.1	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	89.5 74.5	<b>Н</b> . 62.
						4												ł
CONCL	UDES AUG	24, I	978, Sh	WRT MEA	SHELM N	<i>v</i> =												

AUGUST 24, 1978, 11:05, 11:29, 11:56, 12:15

TABLE 2 (continued)

.

-

53

MAY 7, 1979, 15:00

**2 ONE-HOUR RUNS** 

		DATA SI	JMMARY	FOR THE	TIME PE	ER100 BE	<b>GINNING</b>	15:00	AND END	ING 161	00 BAS	ED ON 1	100. PEH	ICENT US	ABLE UA	A I		
CHANL	L_99	L_95	L_20	L00	11	1-60	L_50	140	L_30	L_20	01-1	L-5-		LEG	LEPS	1510	NPL	I'II
- 2	1.17	1.67	74.2 45.3	75.4 46.2	76.1 47.1	76.8 48.2	4°11 4°12	78.1	78.9	80.1 56.1	81.9 59.9	83.5 66.8	87.0 69.4	79.2 58.1	6.7 8.5	3 • 5 8 • 3	88.2 79.5	75.1
	Ch. 2	, 15:00	to 17:-	00, 5 dB	excess	; aircr	aft over	rhead, t	trash tı	ruck nea	ır mike,	, and tr	cain pas	sing.				
		DATA SL	JMMARY	FOR THE	TIME PE	ER100 BE	ON INNI 9	16:00	AND END	191 9NI	59 BAS	ED ON 1	100. PER	ICENT US	SABLE DA	TA		
CHANL	L_99	L_95	L_90	L_80	122	1 60	L_50	1 40	<u> 7</u> 7	L_20	<u>01</u> _1	<b>L</b> 5		LEQ	<b>SUB</b>	1516	NPL-	INI
- 2	72.0	73.5 43. j	74.5 43.7	75,6 44,6	76.3 45.2	76.9 45.8	77.4	78.0 47.0	78.8	19.1	81.4 52.9	83.0 56.5	86.3 64.0	78.8 51.9	6.0 9.6	3.1	86.8 64.8	72.2

CONCLUDES MAY 7, 1979 15:00

(p
inue
cont:
2 (
TABLE

MAY 7, 1979 18:00

.

12 ONE-HOUR RUNS

	INI_	70.4 66.2		INI	72.0 54.9		INI	73.3 68.3			INI	72.9 56.2		INI	71.5
	NPL_	84.4 73.7		NPL.	84.8 64.7		NPL_	84.9			NPL	84.7 67.6		NPL.	83.1
1 T A	<u>1516</u>	2.9 7.2	ATA	L516	3°2 4.4	ATA	L516	3.7 7.2		LT A	1516	3.6 6.6	LTA	1519	3.4 0.8
SABLE DI	LEPS	6.3 9.2	SABLE DI	5737	6.7 9.3	SABLE DI	LEPS	6.9 9.1		348LE 0/	LEPS	7.6 9.3	ABLE D/	5737	1.1 9.2
RCENT US	LEQ	77.1 55.3	RCENT US	LEQ	76.5 53.3	ICENT US	LEQ	75.6 53.0	t.	RCENT US	LEO	75.5 50.8	ICENT US	LEQ	74.5 49.7
100. PEF		84.9 69.5	100. PEF		85.1 66.0	100. PEF	Η	84.8 65.1	v ambien	100. PEF		84.5 63.0	100. PEF		84.4 60.4
ED ON 1	L-5-	81.2 60,9	SED ON 1	L 5	81.1 57.1	ED ON 1	2	80.8 58.5	rrude or	ED ON 1	L 5	80.3 56.8	ED 0N 1	2	78.9 57.3
00 BAS	1-10	79.4	00 BAS	1.10	78.9	.00 BAS	<b>71</b>	78.1 55.9	oter int	00 BAS	1_10	77.8 52.6	00 BAS	11	76.4 52.3
191 191	L_20	71.13	1NG 201	L_20	77.3	115 ONI	L_20	76.0	helicop	11NG 221	L_20	75.9 48.3	11NG 23:	L_20	7 * 7 * 7 * 7 * *
AND ENC	L_32	77.1	AND ENC	L_30	76.3	AND END	0E - 1	75.0	jet and	AND ENC	<u>1_30</u>	74.8 46.4	AND END	<u> 1</u>	73.9 45.1
18:00	0 <del>7</del> 1	76.3 48.3	19:00	1 40	75.5	20:00	1 40	74.2	train,	21:00	1 40	74.0	22100	140	1.64
GINNING	L_50	15.1	ONINNI 9	L_50	74 . B 48 . 6	9 I NN I NG	1 50	73.4	, dog,	<b>DNINNI9</b>	L_50	73.3 5.44	9 I NN I NG	L 50	72.1 42.0
RIOD BE	L_60	75.1	RIOD BE	L 60	1.11	R100 BE	L_60	72.7	ss; car	R100 BE	L_60	72.5 43.3	R100 BE	L_60	71.5 6.17
TIME PE	1_10	74.4	TIME PE	1_10	9.94 6.61	TIME PE	1.70	72.0	dB exce	TIME PE	120	71.8	TIME PE	1 19	70.4
OR THE	L_80	73.6 74.5	OR THE	L_80	72.4	OR THE	L_00	70.9	0, 2.5	OR THE	L_80	70.7	OR THE	L_80	69.4 40.6
IMMARY F	L_90	72.4	MMARY F	L_90	71.2	IMMARY F	L_20	1.14	to 21:0	IMMARY F	L_20	69.5 41.4	MMARY F	L_90	68.1 39.9
DATA SU	L_25	71.4	DATA SU	L_25	70.0	DATA SU	L_25	60.9 41.2	20:00	DATA SU	L 95	68.5 41.0	DATA SU	L_95	67.2
: - - 1	L_22	69.4 41.5		L_92	68.5 42.1		L_92	67.0 40.0	Ch. 2,		L 29	6.04 40.3		L 99	65•3 39•1
	CHANL	- ~		CHANL	5		CHANL	- ~		, ,	CHANL	5		CHANL	7

55

3744	TNI	76.3 61.0	INI	82.0 22.8		INI	84.8 26.1			-INI	4.7.4		INI	80.7 36.8
	NPL	84.7 72.0	NPL_	87.0 45.1		NPL	90.0 51.4			NPL_	9.99		NPL_	88.8 59.7
	LSIG	4.0 8.3 11A	1516	5.1 1.8	IA	1516	6.7 2.8		TA	L516 7 5	0.1	٩	5121	6.7 5.2
	LEPS	7.9 9.6 ABLE D/	LEPS	8.3 7.0	ABLE DA	LEPS	9.6 10.1		ABLE DA	LEPS	10.2	BLE DAT	LEPS	9.6 9.9
	LEQ.	74.3 50.8 ICENT US	LEQ	73.9 40.6	CENT US	LEQ	72.9		CENT US	LEQ_ 73_6	48.6	ENT USA	LEO	71.5 46.4
5 6 7 7 7	L.1.	85.0 64.4 00. PER		85.2 48.0	00. PEA		84.8 58.2		00. PER		63.9	<b>JO. PERC</b>	L_1_	83.5 61.1
		79.2 55.6 ED ON 1	L 5	79.4 43.5	ED ON 1	L 5	78.5 45.6		EU ON 1	78.3	52.5	D ON 10	L-5-1	17.0
	L.10	76.4 52.4 00 BAS	L_10	76.1 41.8	00 BAS	1_10	75.0	ing	00 BASI	14.0	46.8	O BASE	110	73.4 43.9
LED ED	L-20	74.5 48.5 48.5	L_20	73.8 40.8	ING 2:	L_20	71.6 39.9	ns pass	100 E	L_20	1.96	NG 4:0	L_20	70.1 38.9
CONTINU	L_30	73.3 44.3 AND END	0C - 1	72.1	AND END	<b>1</b>	69.4 39.2	nd trai	ANU ENU	L. 30	38.6	ND ENDI		67.7 38.0
18:00	1 40	72.2 42.8 100	L_42	70.8 39.9	1:00	1 40	67.8 38.9	alled a	0012	L 40	38.2	9:00 V	L 40	66.0 37.5
1979,	L 50	71.2 41.8 61NNING	L_50	69 <b>.</b> 5 39 <b>.</b> 5	91NN10	L_50	66.4 38.5	being c	SNINNIS	L.50	9.TE	9N   NN   9	L_50	64.8 37.3
MAY 7,	L 60	70.2 41.2 RIOD BE	L 60	68.2 39.2	R100 BE	L_60	65.2 38.2	s; dog	4100 BEC	L_60	37.6	100 HEG	<u>55</u> -1	63.8 37.0
	L_70	69.3 40.6 TIME PE	1 10	66.9 38.9	TIME PE	11	64.2 38.0	lB exces	I IME PE	L_19	97 <b>.</b> 3	I ME PER	۲.12	62.8 36.8
B H	L_80	68.0 40.1 Or the	<u>i - 80</u>	65.5 38.6	OR THE	L_80	63.0	0, 6.5 c	UN THE	L-82 62.1	37.1	R THE 1	L_00	61.9 36.5
led)	L_20	66.4 39.6 Mmary F	L_90	63.9 38.1	MMARY F	L_20	61.7 37.4	to 05:01	MMAHT F	L-20	36.6	НАНТ FC	L_20	61.0 36.3
ontinu DATA SU	L 95	65.3 39.2 D <u>A</u> TA SU	L_25	62.9 37.9	DATA SU	L_25	61•0 37.2	01:00		L-25 60.6	4 • 9E	DATA SUR	L_25	60.5 36.0
2 (cc	L 99	63.8 38.5	L_99	61.4 37.5	-	L_92	60•2 36•8	ch. 2,	•	60.1 60.1	35.9	<b>-</b>	L_22	60.0 35.6
TABLE	CHANL	- 0	CHANL	- 2		CHANL	2			CHANL 1	· 2		CHANL	- ~
				5	6									

MAY 7, 1979, 18:00 CONTINUED

	_	- 4		_	25
	IN	88 33		IN	92.
	NPL_	92.2 56.1		NPL	91.1 64.4
LA.	<u>9131</u>	1.2	ľΑ	1516	5.9 4.9
ABLE DA	LEPS	10.1	AULE DA	LEPS	6.0 8.7
CENT US	LLQ_	73.8 46.0	CENT US	LEQ	75.9 51.9
00. PER	L_J_	85.5 58.8	00. PER		86.5 64.1
ED ON 1	1 5	79.2 47.6	ED 0N 1	L 5	82.0 56.3
00 BAS	1-10	75.6	00 BAS	L_10	79.2 53.8
ING 5:	L-20	72.4 39.6	1NG 6:	L.20	76.0 51.6
AND END	L_30	1.01 38.9	AND END	L_30	74.4 50.2
4:00	L_40	68 <b>.1</b> 38 <b>.</b> 4	5:00	L_40	72.8 48.9
6 I NN I NG	L_50	66.4 38.0	9 I NN I NC	L_50	71.6 47.6
RIOD BE	L_60	65.1 37.7	810D BE	<b>L_60</b>	70.2 46.3
TIME PE	L_79	63.0 37.4	TIME PE	٢.1	68.7 44.7
OR THE	L_ <u>00</u>	62.1 37.2	OR THE	L_00	67.1 42.4
ММАКҮ F	1- <u>90</u>	61.5 36.7	мманү ғ	L_90	64.B 40.2
UATA SU	L-25	60.9 36.3	DATA SU	L_95	62.9 39.0
	1-99	60.2 35.9		L_99	60.6 37.8
	CLIANL	<mark>ا ا</mark>		CHANL	<del>-</del> ~

CONCLUDES MAY 7, 1979, 18:00

MAY 5, 1979, 07:00

2 ONE-HOUR RUNS

		DATA SI	UMMARY	FOR THE	TIME PI	ERIOD BE	GINNING	1:00	AND ENC	01NG 8:	00 BAS	SED ON	100. PEF	SCENT US	SABLE DA	VIA		
CHANL	L_99	L_25	L_90	L_90	L_70	<u>ل 60</u>	L_50	1-10	L_30	L_20	1_10	1-5-1		LEU	LEPS	1516	- JAH	INI
- 2	73.8	75.4	76.1	16.9 47.8	77.5 48.6	78.0 49.4	78.5 50.2	79.0 51.2	79.6 52.4	80.5 53.9	82.1 56.5	83.7 62.2	86.6 69.5	79.7 56.3	6.0 8.8	2.8 4.9	86.9 68.8	70.0 55.0
		DÀTA SI	JMMARY	FOR THE	TIME PE	ER100 BE	9NINNI9	8:00	AND END	:6 9NI	00 BAS	SED ON	100. PEF	SCENT US	SABLE DA	ITA		
CUANL	L_99	L_95	L_20	L_00	L_10	L_60	L_50	140	11	L_20	1,12	1.5		LEO	LEPS	L516	- Tan	INI
- 2	72.0	73.6	74•6 49•4	75.5 49.9	76.3	76.9 51.0	77.5	78.1 52.2	78.9 53.0	79.8 54.0	81.6 55.9	83.2 59.4	86.6 67.3	79.0	6.5 8.4	3°2 3•4	87.1 63.9	72.5 45.6

CONCLUDES MAY 8, 1979, 07:00

(continued)	
2	
TABLE	

MAY 8, 1979 10:00

DATA SUMMARY FOR THE TIME PERIOD BEGINNING 10:00 AND ENDING 11:00 BASED ON 100. PERCENT USABLE DATA

21 ONE HOUR RUNS (3 DELETED FROM 24 HRS.)

	CHANL	L 99	L_95	L_20	L-00	<u>7</u>	L_60	L 50	96-1	L. 30	L_20	1_10	1-5-	-1-1	LEQ	LEPS	<u>9121</u>	NPL-	INI
	- ~	69.8 44.3	71.6	72.5 45.8	73.8 46.5	1.17	75.5	76.4 48.5	17.2	78.1	79.6 52.4	82.1 55.9	84.0 60.0	87.4 69.4	78.8 55.1	1.6	4°5	90.3 70.1	80.9 56.3
	•		DATA SU	IMMARY I	FCR THE	TIME RE	R100 BE	61NN1NG	11:00	AND END	ING 12:	00 BAS	ED ON 1	00. PER	CENT US	ABLE DA	ΓA		
	CHANL	L_22	26 1	L_20	L_80	120	L_60	L_50	1 <u>40</u>	1_30	L_20	1-10	15		LE0	LEPS	1516	NPL	INI
	~ ~	69.6 44.4	71.6	72.6 45.5	73.9 46.2	74.8 46.8	15.7 47.4	76.5 48.1	77.4	78.4 50.0	79.8 51.5	82.1 53.8	83.8 56.9	87.2 65.2	78.8 53.0	6.9 4.6	ৰ গ্ৰ • • ৰ ক	90.0 64.5	80.5 48.8
59	•		DATA SU	ИМАРУ В	FOR THE	TIME PE	R100 BE	6 I NN I NG	12:00	AND END	EL DNI	00 BAS	ED ON 1	00. PER	CENT US	ABLE DAT	IA		
	CHANL	L_ 22	L_25	L_90	L-80	L_12	L_60	L_50	L_40	1-30	L_20	1_10	1.5		LEQ	LEPS	1516	<u>191</u>	INI
	1 2	68°8 44•0	71.1	72.2	73.5 45.9	74.5 46.5	15.4	76.1 47.8	76.9 48.6	78.0	79.4 50.8	81.8 53.8	83.5 58.6	86.5 69.1	78.4 54.4	6.6 9.4	4 Q 4 4 7 4	89.7 66.3	6.08 6.94
			DATA SL	JMMARY I	FOR THE	TIME PE	R100 BE	0 I NN I NG	00:61 (	AND EN	I 9NIC	00 BAS	ED ON 1	100. PEF	ICENT US	ABLE DA	IA		
	CHANL	L 99	L 25	L-90	L-80	L_10	L 60	L_50	L 40	ופין	L_20	110	15		LEQ	LEPS	1516	NPL	TNT
	7	68.7 46.2	71.0	72.3	73.8 48.4	1.64	75.5 49.8	76.3	77.1	78.2 53.0	79.7 55.4	82.0 58.6	83.8 61.6	87.4 66.2	78.8 55.4	7.2 8.0	4 • 4 • • 3	90.1 71.5	81.1 61.6
	:		DATA SI	<b>л</b> маяу I	FOR THE	TIME PE	CA 100 BE	6 I NN I NG	14:00	AND ENC	01NG 151	00 BAS	ED ON 1	100. PEF	ICENT US	ABLE DA	ΤA		
	CHANL	L_92	L_95	L 90	L_80	1 20	L_60	L_52	1 40	L_30	L_20	1.10	L_5_	-1-1	LEO	LEPS	1516	NPL	TNI
	- 2	70.2	71.9	72.7	74.0 48.2	74.9 48.8	75.7	76.5 50.1	77.4 50.8	78.4 51.9	79.9 53.0	82.1 58.1	83.8 61.7	86.6 67.4	78.8 55.4	7.0 8.5	4 • 9 6 • 3	90.0 71.4	80.3 60.0

374.7

<u>4</u> .9	TA LSLG NPLINL_	3.3 87.7 74.5 4.9 68.27 53.5	ſA	TNI THE INT	3.1 86.7 72. 4.6 66.6 50.1 TA	TAL NPL INI	3.6 84.8 73. 6.4 69.7 56.	TA	LSIG NPL INL	12.1 116.0 118. 13.4 94.3 93.	IA	LSIG NPL IUL	7.8 102.7 94. 4.9 70.1 46.
	ABLE DA	6.3 8.5	ABLE DA	LEPS	6.0 9.0 Able da	LEPS	7.3 8.9	ABLE DA	LEPS	8.3 8.2	ABLE DA	LEPS	9.1 9.4
	CENT US	79.1	CENT US	LEQ	78.7 55.0 ctronic CENT US	LEQ	75.6	ICENT US	LEQ	85.0 60.0	ICENT US	LEQ	82.8 57 <b>.</b> 4
	00. PER	86.2 68.1	00. PER		85.8 69.0 Lost ele 100. PEF	F	84.1 65.0	100. PEF		95.8	100. PEF		95.8 71.0
	L S.	83.5 61.5	ED ON 1	L.5.	83.0 59.2 sraft, m SED ON	L 5	80.4 58.8	SED ON	5	94.5 68.5	SED ON	L-5-	91.5 65.9
	00 BAS	81.9 56.9	00 BAS		81.4 55.4 airc 10 8A	1.12	78.2 56.0	100 BAS	סדיי	89.7 64.9	100 BA	1.10	82.5 52.0
	ING 161	80.2 53.9	111 9NI	L.20	79.8 52.8 țing, sc JING 21:	L_20	76.4	01NG 22	L_20	80.7 58.5	ES ONIC	1_20	16.2
CONTINO	AND END	7941 52.3	AND ENC	<u>1_30</u>	78.8 51.3 ent pegg AND ENG	1_30	75.2	AND EN	1_30	16.7	AND EN	<u>0</u> E_1	74.5
	15:00	78.3 51.4	16:00	1 40	78.1 50.3 termitte 3 20:00	L 40	74.4 48.6	3 21:00	1 40	75.2	3 22:00	140	13.4
	GINNING	77.6 50.6	9 I NN I NG	L_50	77.4 49.6 e of in GINNING	L.50	3.61 8.14	GINNING	L 50	74.2	GINNING	L 50	72.5
	RIOD BE L 60	76.9	R100 85	L_60	76.8 48.9 because FRIOD BE	1 60	12.9	R100 BE	1 60	73.3	RIOD BE	L_60	11.8
	11ME PE L_10	76.2	TIME PE	120	76.1 48.5 deleted TIME PE	1_10	72.1 46.8	TIME PE	L_70	72.5	TIME PE	1 70	70.8
	0R THE L. 80	75.4 48.8	OR THE	L.80	75.4 47.9 20:00 FOR THE	L' 80	71.1 46.3	OR THE	L-180	71.5	FOR THE	L- 80	69.7 44.4
	MMARY F	74.2 48.0	MMARY F	-L-20	74.3 47.1 7:00 to	L_20	69.7 45.8	IMMARY I	L_90	70.2	ИМАRY F	L-20	68.4 43.8
	0ATA SU L 95	2.13.3 6.14	DATA SU	L_95	73.5 46.5 8 2, 1 DATA SU	L 95	68.7 45.4	DATA SI	1.95	69.2 44.8	DATA SI	L_95	67.3
	L_92	71.6		L_99	72.2 45.5 Chs. 1	L_99	67.1 44.8	·	L_92	67.2		L 99	65.5 42.7
	CHANL	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		CHANL		CHANL	2		CHANL	- 2		CHANL	- 2

,

60

TABLE 2 (continued)

100       AND ENDING       1100       BASED ON       99. PERCENT USABLE DATA         111       L-30       L-20       L-10       L-5       L-1       LE9       L519       MPL         11       13.0       75.6       78.6       94.1       73.2       86.4       86.4         12       L-30       L-30       75.6       78.6       94.1       73.2       86.4         12       71.6       73.0       75.6       78.6       94.1       73.2       86.4         13.0       75.6       78.6       94.1       73.2       86.3       86.4         10       AND ENDING       2:00       BASED ON       99. PERCENT USABLE DATA       86.4         10       AND ENDING       2:00       BASED ON       99. PERCENT USABLE DATA       86.4         10       AND ENDING       2:00       BASED ON       99. PERCENT USABLE DATA       86.4         11       72.0       74.0       78.0       84.5       72.0       910.0         12       L-10       L-20       L-12       L-1       LE9       L50.7       52.7         12       12.0       74.0       78.7       91.5       27.6       91.0       27.7
70.2       71.6       73.0       75.6       78.5       48.1       73.2       8.3       5.2       86.         40.1       42.6       43.5       45.5       48.7       44.8       12.3       5.2       86.         M0       1:00       AND ENDING       2:00       BASED ON       99.       PERCENT USABLE       DATA         L-40       L-30       L-20       L-10       L-5       L-1       L-10       L5       L-1       L9       MPL         60.5       70.1       72.0       74.7       50.7       58.0       45.7       8.9       5.7       59.0         60.5       70.1       72.0       74.7       50.7       58.0       45.7       8.9       5.7       52.         60.5       70.1       72.0       74.7       50.7       58.0       45.7       8.9       52.7       52.         60.5       70.1       72.8       94.5       72.8       9.9       52.9       91.1         60.5       60.9       71.4       50.7       58.0       45.7       8.9       7.2       91.1         61.6       L-30       L-10       L5       L1       L60       12.8       9.1
MG       1:00       AND ENDING       2:00       BASED ON       99. PERCENT USABLE DATA         L-40       L-30       L-20       L-10       L-5       L-1       LE9       LE95       L51G       MPL-         68.5       70.1       72.0       74.8       78.2       84.5       72.7       8.9       6.0       80.0         68.5       70.1       72.0       74.8       78.2       84.5       72.7       8.9       6.0       80.0         68.5       70.1       72.0       74.7       50.7       58.0       45.7       8.9       6.0       80.0         61.6       A.2.2       43.0       44.7       50.0       84.5       72.8       91.0       52.7         61.0       A.10       8.0       99.0       69.9       71.4       74.7       70.1       64.4       40.7       5.0       72.8       91.1         61.0       68.9       71.4       73.1       46.4       40.7       72.8       91.1       45.1       45.1       45.1       45.1         61.0       68.9       71.4       73.2       46.4       40.7       72.8       91.1       45.1       45.1       45.1       45.1       45.1 </th
L       1       L       2       L       1       L       1       L       1       L       1       L       1       L       1       L       1       L       1       L       1       L       1       L       1       L       1       L       1       L       1       L       1       L       1       L       1       L       1       L       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<>
68.5       70.1       72.0       74.8       78.2       84.5       72.6       9.0       6.0       80.0         41.6       42.2       43.0       44.7       50.7       58.0       45.7       8.9       6.0       80.0         NG       2:00       AND ENDING       3:00       BASED ON       99.       PERCENT USABLE DATA       52.7       52.7         L 40       L 30       L 20       L 10       L 5       L 1       L 60       LEPS       L51G       MPL         67.0       68.9       71.4       74.7       70.1       84.7       72.8       9.9       7.2       91.1         67.0       68.9       71.4       74.7       70.1       84.7       72.8       9.9       7.2       91.1         67.0       68.9       71.4       74.7       70.1       84.4       72.8       91.1         67.0       68.9       71.6       45.4       40.7       5.0       2.7       91.1         67.0       68.9       71.6       45.4       40.7       72.8       91.1       1       1       1       91.1         1       1       1       1       1       1       1       1
NG       2:00       AND       ENDING       3:00       BASED       0N       99.       PERCENT       USABLE       DATA         L 40       L 30       L 20       L 10       L 5       L 1       L 60       LEPS       LS1G       MPL         67.0       68.9       71.4       74.7       70.1       84.7       72.8       9.9       7.2       91.1         67.0       68.9       71.6       42.4       73.2       46.4       40.7       6.0       2.0       2.0       45.7         67.0       68.9       71.6       42.4       73.2       46.4       40.7       6.0       2.0       2.0       45.7         40.4       41.0       41.6       42.4       78.1       84.7       72.8       91.1         46       3:00       AND       ENDING       4:00       DASED       0N       99.6       FENCENT       0SBLE       DATA         L 40       L 30       A.20       DASED       0N       99.6       72.2       91.1       10.8       66.3       60.1       70.7       40.5       40.6       72.2       90.6       66.6       66.3       60.1       70.7       41.6       70.5       50.3
L 40       L 30       L 20       L 10       L 5       L 1       L 60       L 6P5       L 516       MPL         67.0       68.9       71.4       74.7       70.1       84.7       72.8       9.9       7.2       91.1         67.0       68.9       71.6       42.4       43.2       46.4       40.7       5.0       7.2       91.1         40.4       41.6       42.4       43.2       46.4       40.7       5.0       2.0       45.7         VG       3:00       AND ENDING       4:00       BASED ON       99. PERCENT USABLE DATA       45.7       45.7         VG       3:00       AND ENDING       4:00       BASED ON       99. PERCENT USABLE DATA       45.7       45.7         VG       3:01       AND ENDING       4:00       BASED ON       99. PERCENT USABLE DATA       45.1       45.7         VG       3:01       AND       L<20
67.0       68.9       71.4       74.7       70.1       84.7       72.8       9.9       7.2       91.1         40.4       41.0       41.6       42.4       43.2       46.4       40.7       6.0       2.0       45.7         VG       3:00       AND ENDING       4:00       BASED ON       99. PERCENT USABLE DATA       45.1       45.7         L       40       L       20       BASED ON       99. PERCENT USABLE DATA         L       40       L       30       AND ENDING       4:00       BASED ON       99. PERCENT USABLE DATA         66.3       68.1       70.7       74.2       78.0       84.6       72.2       9.3       7.2       90.6         59.7       40.2       41.7       42.5       44.6       72.2       9.3       44.5       50.6
VG 3:00 AND ENDING 4:00 BASED ON 99. PERCENT USABLE DATA L 40 L 30 L 20 L 10 L 5 L 1 LEO LEPS LSIG NPL 66.3 68.1 70.7 74.2 78.0 84.6 72.2 9.3 7.2 90.6 39.7 40.2 40.7 41.7 42.5 44.6 39.8 4.4 1.8 44.5
L 40 L 30 L 20 L 10 L 5 L 1 LEO LEPS L519 MPL 66.3 68.1 70.7 74.2 78.0 84.6 72.2 9.3 7.2 90.6 39.7 40.2 40.2 40.7 41.7 42.5 44.6 39.8 4.4 1.8 44.5
66.3 68.1 70.7 74.2 78.0 84.6 72.2 9.3 7.2 90.6 39.7 40.2 40.7 41.7 42.5 44.6 39.8 4.4 1.8 44.5

MAY 8, 1979 10:00 CONTINUED

TABLE 2 (continued)

61

$\mathbf{\nabla}$
- Ő)
ă
5
• – –
+
5
X
ੇ ~
2
E 2 (c
LE 2 (c
BLE 2 (c
ABLE 2 (c

MAY 8, 1979 10:00 CONTINUED

												•						
•		DATA SI	UMMARY I	FOR THE	TIME PE	ERIOD BE	<b>GINNING</b>	4:00	AND ENC	01NG 5:	00 BAS	ED ON	99. PEF	RCENT US	ABLE DA	1 A		
CHANL	L_92	L_95	L_90	L_80	1_70	L_60	L_50	1 40	L_30	L.20	L_10	L 5	1	LEQ.	LEPS	1516	NPL	TŅT.
- 2	60.4 37.1	61.0	61.4 37.7	62.2 38.2	63.2 38.6	64.2 39.1	65.4 39.7	66.7 40.4	68.6 41.2	70.9	74.6 45.1	78.4 48.3	84.6 54.8	72.3	9.0 8.1	1.2	90.7 54.3	84.1 37.3
	1	DATA SU	JMMARY F	FOR THE	TIME PE	ER100 BE	9 N I N I 9	5:00	AND END	1NG 6:	00 BAS	ED ON	99. PER	ICENT US	ABLE DA	I A		
CHANL	L_92	L_95	L_20	L_00	L_70	1 60	L_50	1 40	L_30	L_20	1_10	L 5		LEQ.	LEPS	1516	NPL_	THI
7	62 <b>.0</b> 40.0	63.4 42.1	64.8 43.3	66.7 45.1	68.4 47.1	69.9 49.0	71.4 50.4	72.7 51.7	74.2 53.2	76.U 55.0	78.9 57.3	81.5 59.0	86.0 62.4	75.5 53.5	7.8	5.8 5.4	90.4 67.2	91.1 69.2
•		UATA SL	JMMARY F	FOR THE	TIME PE	ER100 BE	9 I NN I NG	6100	AND END	1 NG 71	00 BAS	ED ON	99. PER	ICENT US	ABLE DA	ΤA		
CHANL	L 99	<b>1</b> -25	L.20	L:-80	1_10	1 60	L_50	0÷ 1	1	L_20		2	F	LEQ	LEPS	1516	- T-IN	INI_
- ~	69.5 45.7	72.4	74.0	75.5 47.7	76,6 48.2	77.4 48.8	78.1 49.4	18.7 50.1	79.5	80.6 53.0	82.4 55.5	84.0 57.0	87.0 62.4	79.5 52.8	6.3 8.4	3.4 4.7	88.2 64.9	77.7 50.9
		DATA SL	UMMARY I	FOR THE	TIME P	ERIOÙ BE	GINNING	7:00	AND ENC	ING 81	00 BAS	ED 0N	99. PEF	RCENT US	ABLE DA	IA		
CHAUL	L-99	L 95	L_90	1-80	L_70	160	L_50	L 40	<u>1-30</u>	L_20	110	L 5.		LEQ	LEPS	1510	NPL	I'NI_
5 -	73.5 46.3	75.2 46.8	76.0 47.2	76.8 47.9	77.4 48.4	77.9 40.9	78.4 49.5	78.9 50.3	79.5 51.3	80.4 52.4	81.8 55.5	83.3 59.7	87.2 66.3	79.8 54.3	7.0 8.8	2.7	86.7 66.3	69.5 50.4
		DATA SU	UMMARY 1	FOR THE	TIME PI	ER100 BE	<u> 9</u> NIN193	8:00	AND ENC	146 94I	00 BAS	ED ON	99. PEI	SCENT US	SABLE DA	IA		
CHAN.	L_99	L_95	L_24	L 80	L_19	L_60	L_50	L 40	1E_1	L_20	112	1 5		LEQ	LEPS	1516	- 1dN	-IùI

62

75.6

88.7 70.5

3.5 5.9

6.3 8.9

79.7 55.4

87.3 69.4

84.2 61.3

82.6 57.0

80.8 52.7

79.6

78.7 50.4

78.1 49.5

77.4 48.8

76.8 48.2

76.0

14.9

72.4

- ~

1

,

$\sim$
$\overline{}$
<u> </u>
÷.
2
7
• –
نب
-
<u> </u>
0
C )
~ ~
$\mathcal{Z}$
J
2
2 (0
2 (0
E 2 (c
LE 2 (0
3LE 2 (c
BLE 2 (c
ABLE 2 (c
TABLE 2 (c

.

HAY 8, 1979 10:00 CONTINUED

		UATA SI	JMMARY	FOR THE	TIME PE	ERIOD BE	EG I NN I NG	00:6	AND ENC	11NG 10:	00 BAS	60 ON	99. PER	CENT US	ABLE DA	TA		
CHANL	L_29	L_95	L_90	L_80	L_70	L_60	L_50	L 40	L_30	L_20	110	<b>L</b> 5		LEQ	LEPS	<u>1519</u>	NPL	TŅI
- ~	70.7	72.4	73.5 45.5	74.6	75.4	76.1	76.8 47.8	77.5 48.6	18.4	79.7	82.0	83.7 59.1	86.7 67.8	78.8 54.3	6.4 9.2	4 . ] 5 . 8	89.3 69.1	77.6 54.3
	÷ .							•										

CONCLUDES MAY 8, 1979, 10:00

TABI	Е 2 (с	contin	ued)				нлү 9 <b>,</b>	, 1979 <b>,</b>	. 00:4T									3752
24 0	NE-HOUR	RUNS																
		DATA S	<b>UMMARY</b>	FOR THE	TIME F	ERIOD F	JEGINNIN	16 14:0	O AND E	NDING 1	3:00 B	ASED ON	100. P	ERCENT	USABLE	DATA		
CHAN	L 99	L_ 25	L_90	L + 89	1.70	L 60	L 50	1 40	1.30	L_20	110	1.5		LEQ	LEPS	151	NPL-	INI
1	69.6 45.4	71.3	72.3 46.8	1.61	74.5 47.8	75.3	76.1	76.9	77.9 50.0	79.4	81.6 55.7	63.3 60.1	86.2 68.3	78.2 54.6	6.4 9.0	4 U • • • •	68.6	52.
		DATA S	UMMARY	FOR THE	TIME F	5810D 6	JEGINNIV	16 15:0	0 AND EI	NDING 16	10 0019	ASED ON	100. P	ERCENT 1	USABLE	DATA		
CHAN	L 99	L_95	L_20	L.80	1_1	L_60	L 50	L 40	<u>130</u>	L_20	<b>1</b> 1	1 5		LEQ	LEPS	1510	NPL.	TNI
5	71.4	73.1	74.0 48.1	75.0 48.6	75.8	76.4 49.5	77.2	77.8	78.6	79.6 52.3	61.4	83.0 57.3	86.3 63.2	78.7 53.1	8°.5	<u>м</u> ш 	87.5	73.(
		DATA SI	UMMARY	FOR THE	TIME P	ERIOD B	EGINNIN	6 16:00	AND EN	DING 17	:00 BA	SED ON	100, FI	ERCENT U	ISABLE D	A T A		
CHANL	L_99	L_95	1_90	1.80	L_70	1 60	L_50	1 40	1_30	L_20	all	- 5		LEQ	LEPS	<b>L516</b>	NPL	INI
7 7	71.9	4.51	74.2	75.3 48.6	75.9 48,9	76.6 49.3	17.2	77.7	78.4 50,8	79.4 52.2	80.9 55.1	82.4 58.4	85.7 64.2	78.4 53.5	6.0 8.7	2.9 4.3	85.9 64.5	71.0
		DATA SL	JMMARY F	OR THE	TIME PE	R100 BE	9 N N N N P	17:00	AND END	1N6 18:0	00 BASE	ED ON 10	00. PER	CENT USA	BLE DAT	٩		
CHANL	L_99	L_25	L_20	L_80	L_19	L 60	L_50	L 40	1_30	L.20	110	L 5	-1-1	LEQ	LEPS	<b>151</b> 6	NPL	INI
5 T	70.7 47.1	72.6	73.4	74.5 48.4	75.2 48.8	75.7 49.2	76.2 49.6	76.8	77.5 50.6	70.4 51.8	79.9	81.5 57.8	84.7 66.6	77.5 53.8	6.0 8.9	2.9	84.8 64.0	69.5 45.0
		DATA SL	ИМАRY F	OR THE	TIME PE	R100 BE	9 N N N I N G	10:00	AND END	146 19:0	00 BASE	DI NO DI	00. PER	CENT USA	BLE DAT	A		
CHANL	L_92	L_95	1_20	L_60	L_70	L_60	L_50	L 40	L_30	L_20	110	L 5		LEO	LEPS	LS16	NPL_	TNI
- 2	69.8 46.6	71.5	72.4 41.6	1.84	74.5 48.5	75.2 48.9	75.8 49.3	76.4 49.8	77.2 50.3	78.2 51.0	79.9 52.1	81.5 53.5	84.7 61.4	11.3 51.8	6°2	3.2	85.4 57.5	72.2 35.7

_
continued)
$\mathbb{C}$
2
ГЦ
1
Β
$\triangleleft$
E

MAY 9, 1979, 14:00 CONTINUED

	<b>INI</b>	71.0		[NI	12.9		INI	1.13		TNI	75.0			TNI	73.6	
	EL_	1.5		- H	1.9		- H	5 ° 3		NPL	84.6 60.6			NPL	83.9 60.0	
	N 913	3.5 6 3.5 6		N DI	3.5 B		N 913	1.2 8	T A	1519	3.8 3.6		1 A	1510	3.9 4.8	
DATA	5		DATA	<u>ت</u> س		DATA	5		LE DA	EPS -	7.7 0.1		LE DA	EPS	7.8	
SABLE	LEP	96	SABLE	TEP	0.0	SABLE	LEPS	9.0 9.0	USAB		8.4		USAB	<b>د</b> ۔ ۱	08	
CENT U	LEQ	76.3 52.4	CENT U	LEQ	11.1	CENT U	LEO	75.0	ERCENT	LEQ	14.		ERCENT	LEQ	. 41	
00. PER		84 • 6 64 • 4	)0. PER		87.2 61.1	00. PER		83.6 66.9	100. P	4	84 . 7 64 . 7		100. P	F	84.4 56.3	
0 0N 10	2	80.7 56.9	D 00 10	2 -	80.9 55.4	DI NO 0	2	79.7 58.7	SED ON	LS	79.9 53.5		SED ON	2	79.0	
0 BASE	đ	78.7 53.0	D BAŠE	97	78.3 53.2	D BASE	10	77.3 56.5	00 BAS	al l	77.1		00 BA	פור	76.1 51.1	
10:02 91	20 1	0.6	6 21:00	-20	1.0	6 22101	20 1	3.6	165 9N	L_20	15.0	•	ING :	L_20	74. j 47.6	
C ENDIN	1 06-	2 0 2	) ENDIN	-30 L	2.2.2	) ENDIN	-1 0E	1.7 7	ND END	96	9.91	orcycle	ND END	1.30	72.9	
O ANC	•	× 4	0 ANC	ات ا	2.4	0 ANC		5.4	00 AI	9	00	l mote	100 VI	đ	0.0	
1910	140	75.3 49.0	20:02		74.5 48.8	21:0	1 40	73.9	19 221	]	73. 64	in and	46 23	]	71.	
0 I NN I NG	L_50	74.6 48.5	9 I NN I NG	L 50	73.7	9 I NN I NG	L_50	13.1	EGINNIN	L 50	72.2	y; trai	EGINNIN	1.50	71.1	
ALOD BE	L_60	74.0 48.0	3100 BE	L_60	73.0	38 OO BE	<u>ل ف</u> ل	72.4 46.5	RIOD BI	1 60	7.44	gularit	R100 B	L_60	1.01	
IME PEI	1_70	73.2	I ME PEI	1_12	72.2 46.8	LIME PEI	11	71.746.0	TIME PE	120	79.4	nt irre	I IME PI	1_10	1.69	
R THE 1	L_80	72.4	R THE 1	L.80	71.2	R THE 1	L_80	70.8 45.6	OR THE	1.80	69.2 43.5	), slig}	OR THE	L: 80	68.1 43.2	
IMARY FC	L_90	71.2	IMARY FC	L_90	70.0	IMARY FC	L_90	69.6 44.9	MMARY F	L_20	61.8 42.9	:0 23:00	MMARY F	1-90	66.9 42.7	
ATA SUP	L_25	70.4 46.2	ATA SUP	L_95	69.0 45.0	ATA SUP	L_95	68.7 44.5	DATA SU	L_25	66•8 42•5	22:00 t	DATA SU	L 95	66.0 42.2	
-	L_99	68.9 45.4	U	L_99	67.4 44.4		L_99	61.2 43.9	-	1 99	65.6 41.6	ch. 2,	1	L 99	64.5 41.5	
	CHANL	1		CHANL	N		CHANL	- ~	المحاجبين وراد	CHANL	- 2		:	CHANL	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	;

	979, 14:00 CONTINUED	
(þa	MAY 9, 19	
TABLE 2 (continue		

		DATA SI	UMMARY	FOR THE	TIME PI	ER100 BE	ONINN19	001	AND ENC	I BNI	00 BAS	ED. ON J	00. PER	CENT US	ABLE DA	TA		
CHANL	L 99	L_95	L_90	L.80	1 72	160	1.59	140	L: 30	L_20	11	<b>L</b> 5	Ţ	LEQ	LEPS	<b>L519</b>	NPL	TRI
2	62.0 40.1	63.9 40.8	65.1 41.3	66.5 42.0	67.8 42.1	69•2 43•3	70.5	72.2	74.4	76.7	84.7	87.5 62.6	93.7 68.0	80.5 54.8	0°6	11.1	109.0 81.7	113.6 76.9
:	Chs.	162,(	00:00 to	05:00,	interm	uittent J	pegging	caused	by elec	ctronic	problem	, v	:					
	Ļ	DATA SI	UMHARY	FOR THE	TIME PI	ERIOD BE	<b>ONINNIO</b>	1:00	AND ENC	11NG 2:	00 BAS	ED ON 1	00. PER	ICENT US	ABLE DA	TA		
CHANL	L_22	L_95	1_90	L.80	12	L. 60	L. 50	L. 40	1.30	L.20	1_10	- 5		LEQ	LEPS	<u>1516</u>	NPL-	INI
- 2	61.0 39.5	62+5 40-2	63.8 40.8	65.6 41.6	67.6	704] 44.3	73.3 45.7	75.8 50.6	80.0 54.6	85.1 60.6	87.5 63.2	89.1	94.8 70.5	83.4 59.2	8.2	11:1	111.0 94.2	128.9
		DATA SI	UMMARY	FOR THE	TIME PI	ERIOD BE	ON INN I NG	2:00	AND ENC	11NG 31	00 <u>8</u> 45	ED ON 1	00. PER	ICENT US	 IABLE DA	TA		
CHANL	1.99	L_95	L_90	Ĺ180	120	L-60	L 50	1-40		L_20	al l	15		LEQ	LEPS	1516	NPL	INI
, - , - , - , - , - , - , - , - , - , -	65.6 40.8	69.1 41.0	70.4 4.07	76.4 50.4	11.2 52.3	82.5 51.7	84.7 60.3	86.0 62.2	87.9 64.6	90.4 68.6	93.5 69.9	7.46	95.5	88.3 7.49	6.7 6.6	6.9	106.1 83.8	132.9 116.5
· · · •		DATA SI	UMMARY	FOR THE	TIME PI	ER100 BE	<u> 9N I NN I 9</u> 3	3:00	AND ENC	1 NG 41	00 BAS	ED ON 1	.00. PER	ICENT US	ABLE DA	TA		
ĊĤĂŇL	L_22	L_25	L_ 20	<u>i : 00</u>	۵۲ - L	1.60	L 50	1-40	1.30	1_20	1:10	2 -		LEQ	LEPS	1510	NPL	INI_
- 0	60.09 37.4	60.8 38.1	61.1	62.1 39.1	63.0 39.6	64 . 70 . 2	65.5 40.9	67.2 41.8	69.3 43.2	73.6	83.1 58.3	90.4 67.8	94.8 70.3	81.8 58.0	9.1 9.1	13.8 13.6	117.0 92.7	119.0 87.6
į	- 	DATA SI	UMMARY	FOR THE	TIME RE	ERIOD BE	ONINN19:	4:00	AND END	19 0NI	00 BAS	ED ON 1	00. PER	CENT US	ABLE DA	T A		
CHANL	L-92	1.95	L_90	L-80	1_70	L_60	1 <u>5</u> 1	0 <b>4</b> - 1	L-30	L_20	110	15	1	LEQ	LEPS	1516	NPL	INI
- ~	60.2 38.1	61.0 38.5	61.5 38.9	62 5 39 55	4°E9	64 • 5 40 • 8	65.7 41.4	67.2	68.9 43.1	71.2	74.4 46.0	19.1	85•3 49•8	72.7	9.8	6.8 3.6	90.2 52.4	63.2 5.16

,

· · ·		DATA S	UMMARY	FOR THE	TIME PI	ER 100 BI	9 N I NN I Ø 3	5100	AND ENC	19 911	00 BAS	ED ON	100. PEF	scent us	SABLE DA	1TA		
CHANL	1 99	L 95	L 90	L*80	L_70	160	L. 50	1 10	1_30	L_20	110	15		LEQ	LEPS	1516	NPL-	INI
- 2	6.04 40.9	63.7 42.6	64.9 44.0	66.6 45.5	68.1 46.5	4.14	71.1	72.4	73.9	75.7	78.4	81.1 54.0	85.3 60.8	75.1	7.9	5.7 3.3	89.6 59.6	88.8 47.6
		DATA SI	- UMMARY (	FOR THE	TIME PI	ER100 BI	0 I NN I NG	6100	AND' ENE	12 9NI	00 BAS	ED ON	100. PEF	ICENT US	SABLE DA	ITA		
CHANL	99 ـ	L_95	L_20	L-80	L_20	1 60	L. 50	1 40	<u>וב ו</u>	L_20	2	2 7	Ţ	LEQ	LEPS	1516	NPL	INI
- ~	69.8 45.9	1.1.9	1.67	74.7	15.1	16.4	1.17.1	77.8	78.6 51.0	79.6 51.9	81.5 53.9	83.2	86.2 60.5	78.6 52.1	6.4 8.3	3.5 2.5	67.4 60.3	76.6 42.5
*		DATA SI	UMMARY I	FOR THE	TIME PI	Eriod Bi	0 I NN I NG	1:00	AND ENC	18 91	00 BAS	ED ON	100. PEF	RCENT US	ABLE DA	ITA		
CHANL	L 99	L_95	L_90	L.80	L_10	L_60	L_50	1 40	1_30	L_20	ין	5	F	LEQ	LEPS	1516	NBL	ТИТ
- Q	72.8	14.1	75.5 49.3	76.4 49.7	77.1 50.2	77.6 50.5	78.1 50.9	78.6	79.1	60.0 52.8	61.3	82.7	85.9	79.1 52.0	5•9 6•9	2.6 7.6	85.6 58.3	68.8 38.4
		DATA SI	UMMARY I	FOR THE	TIME PI	ER100 BI	9 I NN I NG	8100	AND ENC	16 9NI	00 BAS	ED ON	100. PEF	ICENT US	Able da	1TA		
CHANL	L 99	L 95	1 90	L180	L_ 70	L_60	L_50	1 40	L_30	L.20		<b>L</b> 5		LEQ	LEPS	1510	NPL	IŃI
1	72.3	9.67 9.74	74.8 48.4	75.7 49.0	76.3 49.5	77.0	77.6 50.4	78.2 50.9	78.9 51.6	79.9 52.7	81.8 54.4	83.4 56.8	86.4 62.0	19.0	6.3 7.7	9.2 8	87.4 60.7	12.7
	Ch. 2	, 08:00 Data Si	to 10:0	00, 7 dB	excess TIME PI	; not n E <b>R100 B</b>	oted. GINNING	0016	AND ENC	101 9N1	00 BAS	ED ON	100. PEF	ICENT US	ABLE DA	ITA.		
CHANL	L_99	L 95	L_90	L_80	L_70	L_60	L_50	1 40	0E - 1	L_20		L. 5		LEQ	LEPS	1519	-171	TNI
- 2	70.8	72.4	73.3 48.1	74.5	75.3	75.9 50.1	76.6	17.4	78.2 53.8	79.5 56.3	01.6 61.2	83.5 66.9	87.1 69.2	78.7 58.4	6.9 8.3	3.9 7.9	88.7 78.6	76.5 70.5

MAY 9, 1979, 14:00 CONTINUED

-

TABLE 2 (continued)

67

																	<u></u>	C
	•	DATA SI	UMMARY	FOR THE	TIME P	ER100 BL	EGINNING	10100	AND END	ILE ONI	00 BAS	ED ON 1	100. PEF	ICENT US	ABLE DA	ITA		
CHANL	. L_22	L_25	L_90	L. 80	L_70	160	L_50	1-10	1.30	1_20		L: 5	1	LEQ	LEPS	1519	NPL	INI
7.2	69.7 45.4	71.8	72.8	74.0	1.84 1.84	75.6 48.5	76.3 19.0	17.3	78.3	19.12	61.7 53.2	83.6 55.9	86.7 61.5	78.7 51.5	7.0 8.0	9 9 9	89.4 60.1	78.
	ch.	2, 10:00	to 14:	:00, 7 dl	B exces.	s; lawn	mower a	nd aircı	raft.									
		DATA S	UMMARY	FOR THE	TIME R	ER100 81	EO INNING	11:00	AND ENC	11NG 121	00 BAS	ED ON 1	100. PEF	ICENT US	ABLE DA	LTA		
CHAN	1 99	L 95	L_90	L. B.0	1 10	1.60	L 50	1.40	1.30	L_20		- 2 -	Ļ	LE9_	LEPS	<u>1519</u>	NPL.	INI
- 2	45.2	11.1	72.2	73.7 47.3	74.6	75.4	76.1 48.9	77.0	78.1 50.1	79.7	82.0 52.9	83.7 55.6	86.9 66.0	78.6 53.1	7.0	4.6 1.E	90.3 61.0	81.6
- :	Auro a company a c	DATA SI	UMMARY	FOR THE	TIME P	ER100 Bt	<b>BUINNINE</b>	12100	AND END	IEJ ONI	00 BAS	ED ON 1	100. PEF	ICENT US	IABLE DA	TA		
CHANL	L 99	L 25	1 20	i	1.79	1 60	L.50	1.40	L.30	L_20	1.10	L. 5		LEQ	LEPS	<u>9121</u>	NPL_	INI
- N	69.0 44.6	11.1	72.3	73.5	74.4	75.2	76.0 48.6	76.8	77.8	19.2	81.6 57.6	83.4	86.6 69.2	78.4 57.1	7.1 8.9	4.4	89.6	19.
		DATA SI	UMMARY	FOR THE	TIME P	ERIOD BI	EGINNING	13100	AND END	ING IAT	SAS 00	ED ON 1	100. PER	ICENT US	ABLE DA	TA		
CHANL	L. 99	L 95	L_20	i	L_70	1 60	L_50	1 40	1.30	L_20	110	L 5		LEQ	LEPS	L516	NPL	INI
- 2	69-8 46-8	11.6.	12.1	73.9	14.7	75.5	76.2	11.1	78.1	19.6	81.9	83.6 69.2	86.9 69.2	78.6	7.1	4 • 4 8 • 6	0.09	19.1

CONCLUDES MAY 9, 1979, 14:00

(***** 

,

MAY 10, 1979, 15:00

2 ONE-HOUR RUNS

•

DATA SUMMARY FOR THE TIME PERIOD BEGINNING 15:00 AND ENDING 16:00 BASED ON 99. PERCENT USABLE DATA

CHANL	L_99	L_95	L_90	L. 80	L_19	L_60	L 50	L 40	<u>06-1</u>	L_20	L_12	L-5-	<b>L_1</b> _	LEG	LEPS	1516		I NI
- 2	73.6 48.8	75.6 49.9	76.5 50.5	77.8 51.4	78.8 52.1	79.6 52.9	80.6 54.1	81.8 55.7	83.1 58.3	86.6 64.0	92.8 68.2	95.1 70.2	95.6 70.8	86.9 62.5	7.5 7.4	9.5 11.0	111.3 50.7	111.7 91.5
	Ch. 2,	15:00	to 16:0	00, exce	ess dB;	15:15 -	- 15:25	electro	onic pr	oblem i	Ato	D conve	rtor.					
		DATA SL	IMMARY F	FOR THE	TIME PE	RIOD BE	9 I NN I NG	16:00	and énc	11 9NI	00 BAS	ED ON 1	00. PER	CENT US	ABLE DA	IA		
CHANL	L_99	L_95	L_90	L_80	21_1	L_60	1 50	L 40	L_30	L. 20	L_10	L 5	L_1_	LEO	LEPS	L516	NPL_	TNI

74.5

88.9 77.4

3.2

6.2

80.6 59.2

88.2 69.2

84.9 67.1

83.3 62.6

01.5 59.0

80.5 56.6

19:1

79.2 53**.**5

78.6 52.4

78.0 51.5

77.4 50.7

75.4 · 76.2 49.2 49.8

73.9

~ ~

CONCLUDES MAY 10, 1979, 15:00

3758	IÚ1. 71.4 58.5	INL. 69.7	INI. 68.7 80.7	1.07 1.07	IHL 72.7 72.2
	NPL- 85.0 68.4	NPL 83.5 68.1	NPL 82.0 77.1	NPL_ 82.7 76.8	0.97 84.2
	11A 1516 3.1	11A 1516 2.9 5.7	1A L516 3.0 8.4	1A LSLG 3.0	1A 1510 3.5 10.1
	ABLE D/ LEPS 6.2 9.0	ABLE DA LEPS 6.6	ABLE DA LEPS 7.3 8.5	ABLE DA LEPS 6.9 9.5	ABLE DA LEPS 7.8 9.7
	CENT US LEQ 77.0	CENT US LEQ 76.1 53.4	CENT US. LEQ. 75.2 55.6	CENT US. LEQ. 75.0 52.7	26NT US. LEQ. 75.2 53.0
	00. PER L. L. 84.5 66.1	00. PER L.J. 84.2 65.1	00. PERG L. L. 84.2 68.1	00. PER(  -1- 83.6 65.2	00. PER( 1.1. 85.1 66.2
	ED ON 1 81.4 81.4	ED ON 1 <b>L 5</b> 80.4 57.9	D 0N 10	ED ON 11	0 0N 10
	00 BAS L_10 79.6 56.0	00 BASI L_10 78.3 55.8	00 BASE L.10 77.1 59.5	00 BASI L_10 77.2 55.5	00 BASE L.10 77.3 55.6
	ING 19: L_20 78.0 53.6	ING 20: L 20 76.8 52.4	L 21:0	ING 22: L_20 75.7 49.4	ING 2310 L 20 75.4 49.2
. 00	AND END L_30 77.0 51.7	AND END L-30 76.0 50.5	NND END L_30 51.9	AND END 1.30 14.8	140 END 1.30 74.4 45.4
679, 18	18:00 1.40 76.3 50.1	19:00 L 40 75.3	20:00 / 1 40 74.0 50.1	21:00 / L 40 74.3	22:00 / 1 40 73.5 43.5
, 10, 1	61NNING L 50 75.7 48.8	51NN1NG L 50 74.6 48.5	51NN1NG L 50 73.3 48.7	1 NNING 1 50 1 3.4	11NN1NG L_50 72.8 42.6
AL A	R100 BE 1 69 75.0 47.6	100 BE6 L 60 73.9	1100 BEC L-60 72.7 47.5	1100 BEC L 60 72.6	1100 BEG L 60 72.0 41.8
	11HE PEI 1. 79 14.8	ГІНЕ ВЕК L_70 73.2 47.1	146 REF 1_10 12.0 46.0	1ME PER L _ 10 71.8 42.3	IME PEA L 71.1 41.2
	оя тне 1.280 73.4	DR THE 1 L.BQ 72.4	R THE T 180 71.1	N THE T L 80 70.8 41.8	R THE T L.B.0 70.2 40.6
CDar	MARY FI L_90 72.4	4MARY FG L20 71.2 45.7	MARY FC <b>L_20</b> 69.9 42.4	IMARY FC L_20 69.6 41.2	MARY FO L_20 68.8 40.0
	DATA SUI L 25 71 • 5	DATA SUI L <u>95</u> 70.3 45.2	0.414 SUA L_95 68.9 41.7	ATA SUM L 95 68.6 40.9	ATA SUH L 95 67.6 39.6
	L 22	L 99 68.5 7.44	67.4 61.1	L 99 67.1 40.3	1 99 1 99 1 99 318.8
	ĊĦĂŀIJL 2 2	CHANL 1 2	CLAAL 1 2	ĊĦĂŬI. 1 2	CHANL. 2

•

	L 99	L. 95																
L.			L_90	1.80	170	L 60	L 50	1 40	1.30	L 20	11	<b>L</b>		LEQ	LEPS	1516	NPL	INI
L. Z	<b>64 4</b> 38 4 Ch. 2,	65.9 39.0 23:00	<b>66.9</b> <b>39.3</b> to 04:0	68.2 39.8 0, L ₁₀	69.1 40.2 crosses	70.2 40.5 below	71.1 40.9	12.1	13.1	74 • 3 42 • 8	76.6 44.6	80.0 49.9	85.7	74.7 46.8	8.1	6.9 5	85.7 54.1	75.9 30.4
N		DATA SI	UMMARY F	OR THE	TIME RE	R100 BE	SN I NN I 93	100	AND END	I SNI	00 BAS	ED ON	00. PEF	ICENT US	SABLE DI	VTA		
	L 99	L_ 25	L 90	L.80	120	L.60	L: 50	1 40	<u>06 1</u>	L_20	1.10	2		LEQ	LEPS	L516	NPL	INL
	61.8 37.1	63.4 37.8	64•5 38•2	66.1 38.9	67.2	68.2 39.8	69.3 40.3	70.5	71.7	13.2	75.7 45.1	78.7	84.2 56.2	13.2	8.3 11.8	3°0 3°8	86.1 56.0	79.3 35.8
		DATA SI	JMMARY F	OR THE	TIME PE	R100 BE	9N I NN I 93	1:00	AND END	12 DNI	00 BAS	ED ON 1	100. PEF	ICENT US	SABLE DI	LTA		
AN	1 99	L 95	L_90	L-80	1_10	L 60	1 50	1.40	1.30	L_20	<b>01</b> .1	5	1	LEQ	LEPS	1510	NPL	IÚI
	7.0 <b>6</b> .7 36.5	61.6	62.5 37.5	63.9 38.0	65.0 38.5	66.1 38.9	67.3 39.4	68.7 40.0	10.5	72.5	75.4 42.9	78.9 44.4	84.4 48.8	72.9	8.7 12.7	6.3 2.1	89.1 50.9	83.9 28.9
		DATA SL	JMMARY F	OR THE	TIME RE	A100 BE	ON INN I D	2100	AND END	ING 31	00 BAS	ED ON 1	00. PER	CENT US	ABLE DA	LTA		
Ņ,	L 99	L. 25	L_20	L180	120	160	1-50	1.40	0E - 1	L_20	1 10	15	1	LEG	LEPS	1510	NPL	INI
	60.4 35.8	61.3 36.4	61.9 36.9	62.9 31.6	63 <b>.</b> 9 38 <b>.</b> 4	64 • 9 39 • 0	65 <b>.</b> 9 39.8	67.2 40.6	68.9 41.7	70.9	E•94	17.4	83.2 57.5	71.6	9.0 8.7	6.6 5.1	88.5 58.5	81.7 44.5
		DATA SI	UMMARY F	FOR THE	TIME PE	R100 BE	56 J NN I NG	3100	AND ENC	14 9NI	100 BAS	ED ON	100. PEF	ICENT US	SABLE DI	4 T A		
ANL	L 99	L 95	1 90	L_80	L 79	L_60	L_50	1 40	120	1-20	110	15		LEQ	LEPS	1519	NPL-	INI
	60.1	61.0 36.2	61.6 36.5	62•6 36•9	63.4 8.76	64.3 7.1E	65.3 38.2	66.6 38.8	68.3 39.5	70.7	74.241.8	78.0	84.2 45.6	72.1 39.6	9.3	6°9 2,9	89.8 46.9	81.9

MAY 10, 1979, 18:00 CONTINUED

TABLE 2 (continued)

71

MAY 10, 1979, 18:00 CONTINUED

	-TNI	86.5 29.3		-INI	88.4 53.4	
	NPL	91.1 46.4		NLL	89.3 56.6	
TA	1516	7.4 2.6	TA	1516	5.7 3.4	
ABLE DA	LEPS	8.9 7.1	ABLE DA	LEPS	7.6 6.8	
CENT US	LEQ	72.5 39.8	ICENT US	LEQ	74.9 47.8	
100. PER		04.1 45.6	99. PEF	-1-1	85.0 56.3	
ED ON 1	15	78.8 43.2	SED ON	1.5	81.1 52.5	
00 BAS	1.10	75.2	00 DAS	יו	78.2	
1NG 5:	L_20	71.3 40.9	19 9NI	1.20	15.4	
AND END	1.30	69.0 40.0	AND END	1_30	1.84	
4:00	140	67.2 39.4	5:00	140	12.4	
0 I NN I NG	L_50	65.7 38.8	DNINNID	L_50	71.0	
R100 BE	L_60	64.5 38.2	R100 BE	L-60	69.6 45.2	
TIME PE	120	63.6 31.6	TIME PE	1_70	68.2 43.8	
OR THE	L_00	62.6 37.0	OR THE	L: 80	66.6 42.1	
MMARY F	1_90	61.4 36.4	IMMARY F	1 90		
DATA SL	L_95	60•9 36•0	DATA SU	L_95	63.2 38.6	
	1 92	60.0 35.4	•	L 99	1.16 37.1	
	CHANL	- 0		CHANL	- ~	

CONCLUDES MAY 10, 1979 18:00

MAY 11, 1979, 07:00

2 ONE-HOUR RUNS

		DATA SI	иммару	FOR THE	TIME PE	ER100 BE	0 I NN I NG	7:00	AND ENC	ING 8	:00 BAS	SED ON 1	100. PER	ICENT US	ABLE DA	TA		
CHANL	L_99	L_95	L_90	L_82	1_10	L_60	L_50	L 40	<u>1</u>	L_20	L_10	L 5		LEQ	LEPS	1516	NPL	INI
- ~	73.4	74.9	75.7	76.6 49.9	77.3 50.4	77.8 50.8	78.3 51.3	78.8	79.4 52.2	80.2 52.8	81.8 54.2	83.2 56.9	86.7 64.2	79.5 53.7	6.5 8.5	2.3	86.5 59.6	69.8 38.8
		DATA SI	<b>ИМА</b> ВҮ	FOR THE	TIME PE	ERIOD BE	9NINN19	8:00	AND END	56 9NI	00 BAS	SED ON 1	.00. PER	CENT US	ABLE DA	IA		
CHANL	L_99	L_25	L_20	L_80	120	L_60	L 50	L 40	L_30	L_20	L_10	1.5		LEQ	LEPS	L516	NPL	-INI
- 24	72.3	73.9 48.9	74.8	75.9 50.1	76.5	77.2	77.8	78.4 52.7	79.1 53.8	80.2	82.1 57.0	83 <b>.</b> 9 59 <b>.</b> 9	87.0 69.6	79.4 56.2	6.5 8.6	4°0	88.0 66.5	1.41 1.45

CONCLUDES MAY 11, 1979, 07:00

MAY 21, 1979, 15:00

2 OHE-HOUR RUNS

	-INI	74.4		THI	19.0 54.6
	- HAN	88.2 70.3		NPL	61.7 68.2
IA	<b>151</b> 6	3.3 5.9	TA.	L516	3.1
ABLE CA	LEPS	6.3 9.3	ABLE DA	SAIT	7.5
ICENT US	LFQ_	79.9 55.3	RCENT US	<b>LEQ</b>	79.7
00. PEH		87.2 69.4	99. PEF		87.5 66.9
ED ON 1	L 5	84.0 60.4	SED ON	5	83.6 58.4
00 BAS	1_10	82.5 55.3	55 BAS	1-10	82.1 55.0
1NG 16:	L_20	80.9 51.2	191 9NI	L.20	80.5 51.1
AND END	L-30	79.8 49.5	AND ENU	L_30	79.5 49.3
15:00	<u>1 - 1</u>	79.0 48.5	16:00	L_40	78.8
6 I NN I NG	L_50	78.3	0 I NNI NO	L-50	78.1 41.7
R10D BE	L_60	77.7 47.3	R100 BE	<u>1 60</u>	1.14
TIME PE	1_70	1.17.1	TIME PE	٢7	76.6 46.5
OR THE	L_AU	76.3 46.4	OR THE	1	75.5
иману ғ	L_20	75.2 45.9	IMMARY I	1-90	73.1 45.1
DATA SL	L_25	74.5 45.5	DATA SU	L. 25	68.4 44.6
	L_99	73.0 45.0		L_99	62.5 43.8
	CHANL	1 2		CHANL	1

CONCLUDES MAY 21, 1979, 15:00

		DATA S	UMMARY	FOR THE	TIME PE	RIOD BE	9 I NN I NG	18:00	AND END	101 19:	00 BAS	ED ON 1	100. PEA	CENT US	ABLE UA	TA .		
CHANL	<b>1</b> -29	<b>1</b> 25	L_90	L80	L_10	L_60	1-50	L 40	L_30	L_20	L_10	2		LEQ	LEPS	1510	- han	INI
- ~	69,9 52,8	71.8 53.9	72.7 54.4	73.8 55.1	74.8 55.6	75.6 56.1	76.2 56.6	76.9 57.1	77.6 57.6	78.6 58.5	80.4 59.9	82.5 62.1	86.1 65.9	77.9 58.0	6.5 6.2	3.2 2.6	86.1 64.7	73.5 56.5
	Ch. 2	, 18:00 Data s	to 21: UMMARY	00, 6 dl FOR THE	B excess IIME PE	s; cause [ <b>RIOD BE</b>	not no GINNING	ted, bu	t occur: AND END	s durinį ING 20:	g post ( 00 BAS	supper a	activity 1 <b>00. PER</b>	r increa	ISE. ABLE DA	T A		
CHANL	L-99	L_25	L_20	L_01	1_10	1 60	L 50	92-1	L_30	L_20	110	<b>L</b> .5	L_1_	LEQ	LEPS	1516	NPL.	INI
- ~	68.1 50.9	70.0	71.1	72.5	73.5 55.2	74.3 55.9	75.1	75.8 59.6	76.7 63.8	77.6 68.7	79.3 69.4	81.6 69.4	85,5 69,4	76.9 64.1	7.2 6.6	3°3	85.4 88.7	74.0 67.5
		DATA S	ИМАRY	FOR THE	TIME PE	ER10D BE	9 I NN I NG	20:00	AND END	11 S 911	00 BAS	ED ON 1	100. PER	ICENT US	ABLE DA	11 4		
CHANL	<b>L</b> _92	L25	1_90	L_80	L_70	١ 60	L_50	1 40	1_30	L_20	L_10	L-5-		LEQ	LEPS	1516	NPL-	INI
7	66.7 50.3	68.4 51.3	69.5 52.0	71.2 52.7	72.4 53.3	73.3 53.9	74.5	75.0 55.2	75.9	76.9 57.3	78.9	81.4 61.1	86.1 66.8	76.5 56.8	7.7	3.6 3.8	85.9 66.5	51.4
		ATA S	V EA MMII	EOR THF	TIME P	ERIOD RF	1 NI NI 9	21100	AND EN	1106 22	00 645	SED ON	100. PE!	SCENT US	SABLE UA	114		
	. 0						50	0 4 1	06 1	00	01 1	ۍ 	-	t FO	I FPS	1516	IdN	INI
	66.3 49.9	68.5 50.9	69.7 51.5	71.2	72.3	73.2	74.0	74.8	75.5 55.2	76.4	78.0 58.0	80.5	85.2 69.4	75.9 57.6	1.5	э. I Э. I	84.0 65.6	12.9
		DATA S	UMMARY	FOR THE	TIME P	ER100 BL	10 I NN I NG	3 22:00	AND EN	162 9NI0	100 BAS	SED ON	100. PEF	CENT US	SABLE DI	a t a		
CHANL	<b>.</b> L_22	L_95	L_20	L_80	1_10	L_60	L_50	L 40	۲-30	L_20	110	L.5.	-1-1	LEQ	LEPS	1516	- TAN	INI
1	59.9 47.6	63.4 49.1	66.8 49.9	6A.8 50.8	70.3	71.3 52.5	72.3	73.3 54.3	74.4 55.2	75.7 56.8	70.0 59.0	81.1 62.1	86.6 69.4	76.0 57.5	8.8 8.2	4 4 • • 4 4	6.1.3 68.7	81.6
																		3

MAY 21, 1979, 18:00

TABLE 2 (continued)

	NPL- INL	65.3 33. 60.3 46.		1	INI TNI	60 <b>.9</b> 3 <b>3.</b> 61.3 52.		NPL. INI	35.4 158. 69.3 67.		NPL_ INI	23.8 247. 67.1 65.		NPL_ INI	44.5 43. 62.0 58.	
¥	1516	4. 9.1	A	ſ	1516	4• 6•E	V	1516	19.6 6.0	A	1516	13.5 1 5.8	IA	1519	4 • 0 4 • 6	
ABLE DAT	LEPS	16.0 7.9	ARLE DAT		LEPS	8.7 6.4	ABLE DAT	LEPS	8.0 7.8	ABLE DAT	LEPS	6.5 7.1	ABLE DA	LEPS	6.9 6.6	
CENT US	LEQ	64.4 52.4	CENT US		LEG	59.9 51.3	ICENT US	LEQ	A5.2 54.0	CENT US	LE0	89.1 52.8	SCENT US	LEQ	34.3 50.9	
••••		60.6 58.6				60.6 58.3	00. PER		94.2	00. PER		94.3 63.8	100. PEF	L_1_	43.1 58.1	
ED ON 1	L.5.	60.6 56.3			<u> </u>	60.6 55.9	5ED ON 1	L-5-	94.0 60.6	ED ON 1	1.5	94.2 58.7	SED ON	15	42.6 56.2	
CAU UO	L_10	60.5 54.9		CM0 00.	1.10	60.5 54.4	00 BAS	110	92 <b>. 1</b> 56 <b>.</b> 9	00 BAS	110	94.2 55.8	:00 BA	L_12	41.9 54.6	
: 9NI	L_20	60.4 53.4	nike.	1 9810	L_20	60.4 52.8	11NG 2:	L_20	80.2 53.9	1 NG 3:	L_20	93.2 53.6	DING 4	L_20	40.3 52.6	
AND ENU	L_30	60.3 52.4	ed out n	VND CN	7E1	60.3 51.6	AND EN	L-30	73.2 52.1	AND END	<u>05-1</u>	90.7 52.0	AND EN	1.30	30.6 51.1	
23:00	L_40	60.2 51.6	shorte	00:	1 40	60.2 50.4	1:00	L 40	69.8 50.8	2:00	1 40	88.7 50.1	00:E (	<u>1</u>	37.8 49.9	
	L_50	60.1 51.0	moistur€	6 I NN I NG	L_50	60.1 49.4	9NINNI 9	L_50	67.0	6 I NN 1 NG	L 50	76.9 48.4	01 NN 1 93	L_50	36.8 48.7	
R100 BE	L_60	60.0 50.4	ailed; 1	RI00 86	L_60	60.0 48.6	58100 BE	L_60	64.7 41.9	R100 BE	L_60	40.6 46.9	ER100 BI	L 60	35.7	
IIME PE	12	59.8 49.7	mike f	TIME PE	L_10	59.9	TIME PE	٢_1	62.9 46.6	TIME PE	12	37.9 45.5	TIME PI	120	34.5 46.0	
OR THE	L00	59.7 48.9	0, near	OR THE	1.90	59 <b>.</b> 8 46.5	OR THE	L_80	60.9 45.4	OR THE	L_80	35.8 44.2	FOR THE	L_80	33.1 44.8	
IMMARY F	L_90	59.5 47.9	to 07:0	<b>ИМАРТ</b>	1-90	59.7 45.0	і тялыц	L_20	60.1 43.5	IMMARY F	1 90	33.2	UMMARY I	L_90	31.4 43.3	
DATA SL	L_25	59.3 47.0	23:00	DATA SI	L25	59.5 43.8	DATA SU	L_25	59.8 41.8	DATA SI	L_25	31.4	DATA SI	L_95	30.4 42.5	
	L_99	59.2 44.7	ch. 1,		122	59.2		L_99	59.4 38.8		L_99	29.6 40.5		L_22	29.5	
	CHANL	- ~			CHANL	- ~		CHANL	- ~		CHANL	- ~		CHANL	- 2	

3764

TABLE 2 (continued)

continued)
2
TABLE

MAY 21, 1979, 18:00 CONTINUED

DATA SUMMARY FOR THE TIME PERIOD BEGINNING 4:00 AND ENDING 4:52 BASED ON 100. PERCENT USABLE DATA

INI	43.2 56.6
NPL_	44.4 61.9
<u>L516</u>	4 • 0 5 • 4
LEPS	6.9 6.6
LEG	34.2 51.2
L_1_	43.1 58.9
<u>L 5 </u>	42.6 55.9
L_12	41.8 54.6
L_20	40.1 52.8
L_30	38.5 51.4
L 40	37.7 50.2
L_50	36.7
L_60	35.7 48.1
L_1	34.5 46.8
L_80	33.1 45.5
L_90	9.64 9.64
<b>L</b> _25	30.4 42.4
L-99	29.5 40.6
CHANL	- ~

CONCLUDES MAY 21, 1979, 18:00

77

MAY 22, 1979, 07:30

**2 ONE-HOUR RUNS** 

89.3 66.6 NPL 1516 2.9 3.6 DATA SUMMARY FOR THE TIME PERIOD BEGINNING 7:30 AND ENDING 8:00 BASED ON 100. PERCENT USABLE DATA 6.2 7.8 LEPS 82.0 LEQ 89.4 69.4 86.1 61.6 5 84.3 58.8 1_10 82.5 56.8 L_20 1-30 81.8 55.6 81.2 54.8 1 40 80.6 54.1 L_50 80.1 53.6 L_60 79.5 53.2 L_70 78.9 52.7 L_00 78.0 52.1 L_90 77.3 L_25 75.6 51.1 L_99 . CHANL - ~

13.2

INL-

76.9 INI. 90.5 68.3 NEL. L516 3.4 4.1 DATA SUMMARY FOR THE TIME PERIOD BEGINNING 8:00 AND ENDING 9:00 BASED ON 100. PERCENT USABLE DATA 6.2 1.8 LEPS 81.8 57.8 LEQ. 89.2 69.5 Ch. 1, starting 07:30, using a model 4133 mike to replace the damaged model 4149 mike. 86.3 1-5-1 84.6 59.6 110 L_20 82.7 1.30 81.6 56.1 140 80.8 55.2 L.50 L. 60 1.12 L-180 L_20 L.25 L. 29 CHANL

80.2

79.6 53.6

79.0 52.8

78.2 52.1

51.3

76.2

74.3 8.94

- ~

0.7:30CONCLUDES MAY 22, 1979,

															t			
		CAIN	UMMAHT	FUK THE	I IME	EKIUD B	EGINNIN	6 10:00	AND EN	II ONIC	:00 BAS	EU UN	100. PEN	CENI US	AHLE UA	A		
CHAIL	L_29	L_25	L_90	L_69	L_70	L_60	L.50	L 40	1_30	L_20	1.10	L 5-		1,60_	LEPS	1516	NPL	INI
- ~	71.7	74.1	75.1	76.3 45.9	77.2	78.0 47.1	78.7 47.8	79.6	80.6 49.8	81.9 51.9	84.2 55.0	86.3	89.4 62.8	81.1 52.1	6.8 8.4	4 . 3 5 . 6	92.1 66.5	81.7 54.5
		Data s	UMMARY	FOR THE	TIME	ERIOD B	EGINNING	6 11:00	AND ENC	01N6 12	:00 BAS	ED UN	100. PEH	ICENT US	ABLE UA	ľA		
CHANL	L_22	L_25	L_90	1	L_70	L_60	L_50	L 40	1.30	L_20	1_10	L 5		LEQ	<b>LEPS</b>	1516	NPL	INI
- ~ 7 9	71.5	74.0	75.0	76.3	77.2	77.9	78.7 47.6	79.6 48.3	80.6 49.4	81.9 51.0	84.2 55.2	86.1 59.1	89.1 65.9	81.0 53.5	6.7 9.1	4°3	91.9 68.7	82.0 54.7
		DATA S	ИММАRY	FOR THE	TIME P	ERIOD B	EGINNING	3 12:00	AND ENE	130 I 91	00 BAS	ED ON	100 · PEF	ICENT US	ABLE DA	IA		
CUANL	L-99	L_95	L_90	L_ <u>80</u>	1_70	L-69	L_50	L 40	۲30	L_20	1_10	<b>L</b> 5		LEQ	LEPS	1516	NPL_	INI
	70.8	73.2 42.5	74.4	76.0 43.7	76.9 44.3	77.8	78.7 45.5	79.6 46.1	80.6 47.0	82.0 48.8	84.4 52.9	86.4 56.6	89.6 62.5	81.1 51.1	6.8 9.6	4.5 5.8	92.5 66.1	84.3 52.5
					t i													
		DATA S	υμμαιγ	FOR THE	TIME P	ER100 B	E G I NN I NG	00:61 5	ANU ENC	14:51 J4:	:00 BAS	ED ON 1	100. PEF	ICENT US	ABLE DA	I A		
CHANL	L_99	L_25	L_90	L_ <u>A</u> 0	L_10	1-69	L-50	L_40	L-30	L_20	L_10	L 5	L_1_	LEQ_	LEPS	1516	NPL_	INI
- (	0.17	4.67	74 • 5 44 • 8	75.9	76.9	77.8	78.5	19.3	80.4 48.5	81.8 49.5	84.0 52.3	85.8 55.0	89.1 60.0	80.8 50.6	6.8 9.4	4 • 4 4 • 0	91.9 60.7	82.6 44.8
l					•		<b>k</b> • •		•	<b>3</b>	1		<b>F</b> 1 1	:	1		•	•
		DATA S	UMMARY	FOR THE	TIME P	ERIOD B	E G I NN I NG	3 14:00	AND EN	11NG 153	OO HAS	ED ON 1	100. PEF	ICENT US	ABLE DA	ΙA		
CHANL	L-22	L_95	L_20	L99	L_19	L_60	L-50	L-40	<b>L_3</b> 0	L_20	1-10	L 5	11	LEO	1.625	L516	- Tan	-INI
- ~	7.17	73.7	74.0	76.1 47.0	17.2	78.0 49.4	78.9 50.5	79.8 51.8	A0.8 52.8	82.1 54.2	84.4 57.8	86.2 61.7	89.5 68.6	81.1 55.8	6.7 8.6	6.4 5.7	92.1 70.5	83.2 65.3

MAY 22, 1979, 10:00

TABLE 2 (continued)

			DATA S	UMMARY	FUR THE	TIME P	ERIOD BE	EGINNING	15:00	AND END	:91 9NI(	00 BAS	SED ON J	100. PER	icent na	AULE DA	11.4		
	CHANL	L_22	L-25	L-90	L_80	L_10	L .60	L_50	L_4.0	1-30	L_20	1,10	L.5.	L_1_	LEQ	LEPS	L516	- <b>T</b> UN	INI
	- ~	73.2 45.5	75.2	76.2 47.8	77.4 49.2	78.3	19.1	79.7	80.4 53.6	81.3 54.4	82•4 55•4	84.3 56.9	86.0 58.7	89.2 66.6	81.5 55.2	6.5 8.2	3.6 3.4	90.6 63.9	78.7
			DATA S	иммакү	FOR THE	TIME P	ERIOD BI	EGINNING	16:00	AND END	:11 9NIC	00 BAS	SED ON 1	100. PER	ICENT US	AULE DA	VIA		
	CHANL	L_92	L_95	L_20	L_ <u>8</u> 4	L79	L_60	L_54	L_40	0E1	L_20	1_10	L 5		LEQ	LEPS	1516	NPL_	INI
\$	- 2	73.8	75.8 45.8	76.6 41.7	77.8 50.2	78.5	53.5	79.8	80.5 55.9	A1.3 57.4	82.3 59.5	83.9	85.6 64.0	. 88.6 69.4	81.2 58.5	0.0	3.2	89.6 72.8	76.0 73.3
80			DATA S	UMMARY	FOR THE	TIME P	ERIOD BI	EG I NN I NG	17:00	AND END	ING 18:	00 BAS	SED ON	99. PER	ICENT US	AULE DA	VIA		
	CHANL	L_99	L_25	L_90	L_80	L1	L_60	L_50	L 40	1J0	L_20	110	L.5.	<b></b> - <b>-</b>	LEO	LEPS	1516	Tall	INI
	- ~	73.6 44.7	75.3 45.7	76.2 46.5	77.3 47.6	78.0 48.4	78.6 49.4	79.2 50.3	79.8 51.3	80.4 52.5	81.3	82.8 56.4	84.6 59.0	88.0 66.1	80.5 54.4	6.1 8.6	2•8 4•8	81.7 66.6	12.5 56.0

CONCLUDES MAY 22, 1979, 10:00

MAY 22, 1979, 10:00 CONTINUED

TABLE 2 (continued)

15	ÒNE-HOU	R RUNS																
		DATA SI	UMMARY I	FOR THE	TINE P	ER100 BI	EGINNING	19:00	AND END	1NG 20:	00 BAS	ED ON 1	00. PEA	ICENT US	ABLE DA	TA		
CUANL	L_99	L_95	L_20	L_00	120	1 60	L_50	L_40	1_30	L_20	L_19	L.S.		LEQ	LEPS	1519	HPL_	INI.
- 2	67.9 41.9	11.1	72.3	73.7	74.6	15.3	76.0	76.6 48.0	50.2	78.2 53.4	80.1	62.7	87.7 68.5	18.1	7.5 8.8	3.2 9.4	86.3	73.4 14.6
	Ch. 1	, 19:00 <b>0ata s</b> i	instal JMMARY	led rait FOR THE	IIME PI	on mode ERIOD BI	EGINNING	mike. 20:00	AND END	ING 211	00 BAS	ED ON	99. PER	ICENT US	ABLE DA	IA		
CHANL	L-29	L_25	L_20	L_80	L_70	L 60	L_50	L 40	1_30	L_20	110	15	L L	LEQ	LEPS	1516	NPL_	INI
5	67.1 41.6	69.4 42.2	10.1	72.2 43.4	73.1	6.64 6.64	74.6 45.9	15.3	76.2 49.9	77.2 54.0	79.0 58.9	81.1 62.9	85.9 69.2	76.7	7.7 8.8	3.4 10.1	85.5 81.8	73.9
,		DATA SI	JMMARY 1	FOR THE	TIME PI	ER 100 BI	EG I NN I NG	21:00	AND END	1NG 22:	00 BAS	ED ON	99 . PER	ceni ns	ABLE DA	I A		
CHANL	L. 22	L_95	L_90	L_80	1 70	L_60	L 50	1 40	L_30	L_20	L_10	5		LEQ	LEP5	1516	NPL-	INI
I 2	66.9 41.3	69.0 41.9	10.2	71.7	12.1	73.5	74.3 45.1	15.1	76.0	77.1 53.8	78.9	81.2	85,9 67.3	76.5	7.4 8.6	3.6	85.7 84.3	75.0 81.2
		DATA SU	MMARY F	OR THE	TIME PI	ER100 AF	9N1NN193	22:00	AND END	1NG 23:	00 BAS	ED ON	99. PER	CENT US	ABLE DA	IA		
CHANL	L_99	L_25	L_20	L_80	L_70	L_60	L_50	L 40	L_30	L.20	L_10	1.5	Ľ	LEQ	LEPS	1519	NDT-	LN1_
1	65•7 39•5	67.7 40.2	68.9 40.6	70.6	71.9	72.8	13.1	74.5 44.3	75.4 46.4	76.5	78.2	80.5 62.1	86.0 66.2	76.1 53.8	8 0 8 8	3.5 10.9	85.1 81.6	76.8 76.8
		DATA SI	JMMARY I	FOR THE	TIME P	ER100 BI	EGINNING	00:62	AND END	: 9NI	00 BAS	ED ON	99. PEF	CENT US	ABLE DA	TA		
CHANL	L_99	L.95	L_90	L_80	L_79	L 50	L 50	L 40	L_30	L_20	1_10	L 5.	L 1	LEQ	LEPS	1516	THN	TŅT
- 2	64.4 38.7	66.2 39.2	67.3 39.5	68.8 39.9	70.240.4	71.3 40.8	72.3	73.3	1°64	15.7	77.5 49.2	19.8	85.7 69.4	75.3 53.3	8.2 10.3	4.0 6.1	85•6 69 <b>•0</b>	78.2 48.4
																		371

MAY 22, 1979, 19:00

TABLE 2 (continued)

81

							11AI 22,	га, е, е, е, т	9:00	ONTINUE	C							τ.	Ê
			DATA S	UMMARY	FOR THE	TIME	ERIOD BE	ON I NN I 9	100	AND END	1:1 9N1	DO BAS	ED ON	99. PER	CENT US	ABLE DA	ΙA		
	CHANL	L_92	L_25	1_90	L. 20	1_10	L_60	L_50	L_40	1_30	L-20	L_10	L_5_	-1-1	LEO	LEPS	1516	NPL.	-INI
	- 2	62.7 39.4	64•2 39•9	65.4 40.2	66.9 40.6	68.1 41.1	69.3 41.5	70.5	71.742.8	73.2	74.8 45.8	1.1.1	79.9	85.9 57.0	74.9	8.7 10.1	5.2	88.2 58.3	82.4 40.2
			DATA S	UMMARY	FOR THE	TIME PI	ERIOD BE	9 I NN I NC	1:00	AND END	ING 21	00 BAS	ED ON	99. PER	CENT US	ABLE DA	I A		
	CHANL	L_99	L_25	L_20	L_00	1_10	L_60	ופיו	<b>1</b> 40	1.30	L_21	1.10	L.5.		LEQ	LEPS	1516	- TAN	INI
ε	- 2	61_0 38_8	62.0 39.3	62•8 39•9	64.3 40.5	65.6 40.9	66.8 41.3	68.0 41.7	69.4 42.2	71.2	73.3 43.3	76.2	1.61	85.9 49.8	13.9	8.8	6.4 2.1	1.64 1.64	86.5 21.9
32		Heavy	pata s	гот 01: ИНМАРУ	00 to 0 FOR THE	5:00 TIME P	ER100 BE	ONINNI 9	2:00	AND END	1NG 3:	00 BAS	ED ON	99. PER	CENT US	ABLE DA	IA		
	CHANL	L_99	L_95	L_20	L_90	119	L_60	L_50	L 40	1.30	L_20	119	15-1	LL	LEQ	LEPS	1519	- TAN	INI
	7	60.4 39.4	61.2 42.6	61.7 45.4	62.7 46.3	63.9 47.4	65.4 48.1	67.0 49.4	68.6 51.2	70.9 69.3	73.6 69.3	76.9 69.3	81.5 69.4	86.7 69.4	74.B 64.9	9.2 6.6	1.8	94.7 104.7	92.8 111.3
		Ch. 2	, 02:30 DATA S	to 03:5 UMMARY	20, beci FOR THE	TIME_P	FRIOD BE	e calibr GINNING	ator su	/itched	shorted ING 4:	. Swit 00 8AS	ch was ED ON	removed 99. PER	ČENT US	ABLE DA	LA.		
	CHANL	L - 99	L_25	L 20	L_80	1 79	L_60	L 50	1 40	L_30	L_20	L_10	L 5	L_1_	LEQ	LEPS	L516	- TAN	INI
	- 2	60.6 39.9	61.2	1.64 1.64	62.6 44.7	63.7 45.6	64.9 47.3	66.5 49.3	67.9 52.5	69.8 69.3	72.5 69.4	75.7	78.7 69.4	85.3 69.4	73.2	9.2 6.5	1.2	91.6 105.3	87.6 118.2
		·	S VI VO	A d A HUIL	EOU THE	TIME P		UNINN 19:	4:00	AND END	1NG 51	. 00 BAS	ED ON	99. PER	CENT US	SABLE DA	ITA		
	CHANL	L 99	, A1A ,	L 20	L_80	1 70	L_60	L 50	L 40	L_30	L_20	L_10	1-5-1		LEQ	LEPS	1516	- JAN	_INI
	5	60.5 37.3	61.0 37.9	61.5 38.4	62.5 39.1	63.8 39.7	65.0 40.3	66.5 40.8	68.2 41.7	10.5	73.2 45.6	76.5 47.8	19.1	85.6 53.4	73.6 45.4	8.8 10.4	7.8	93.5 59.4	91.5

•

1979 MAY 22

TABLE 2 (continued)

$\sim$	•
-77	
9	
<u>ل</u> ے:	ļ
_ C	•
1.	
+-	'
5	
6	
~	
U U	
$\sim$	
_	
$\sim$	
e.:	1
$\alpha$	)
-	
7	
<u> </u>	1

MAY 22, 1979, 19:00 CONTINUED

		6 B		-			<b>ا</b> ۔	e n		-			L	. 1	
	IN	69		NT	76		IN	69. 74.		IN	76 56		N	78 63	
	ההר	92.4 63.4		- ארוע	88.9 61.1		-77N	87.5 78.4		NPL-	90.1 69.4		NPL	90.2 71.3	
1 A	1510	5.9 5.1	1 A	1516	3.0 4.4	IA	513 <b>1</b>	2.5 9.1	I A	L516	3.6 6.5	ΙA	1516	3.8 7.3	
ABLE DA	LEPS	0°6 0°6	ABLE DA	LEPS	6.9	ABLE DA	LEPS	6.0 9.0	ABLE DA	LEPS	6.6 9.9	ABLE DA	LEPS	6.4 8.8	
CENT US	LEQ	17.4 50.4	CENT US	LEO	61.2 49.8	CENT US	LEQ_	81.2 55.2	CENT US	LEQ	81.0 52.8	CENT US	LEO	80.5 52.7	
98. PER		87.4 61.7	98. PER	L_1_	88.6 61.4	00. PER	L. L.	87.6 68.8	00. PER		89.0 67.1	00. PER		88.3 63.9	
ED ON	15	83.6 54.5	ED ON	L-5-	85.3	ED ON 1	L-5-	84°8 61•9	ED ON 1	L 5	85.7 56.8	ED ON 1	<b>L</b> 5	85.2 59.1	
00 BAS	1_10	80.9 52.3	00 BAS	1_10	83.6	00 BASI	1_10	83.3 57.5	00 BAS	110	83.8 52.8	00 BAS	L_12	83.6 55.9	
1NG 6:	L_20	77.9 50.2	1 9NI	L_20	81.8 48.7	ING B1	<u> </u>	82.0 52.9	1NG 9:	L.20	81.7 48.9	101 JN1	L_20	81.4 51.2	
AND END	L_30	76.1 48.6	AND END	L.130	81.0 47.4	AND END	L_30	81.2 49.8	AND END	L_30	80.6 46.9	AND END	L_30	80.2 48.7	
5:00	1 40	74.6	6:00	L 40	80.4 46.3	7100	L_40	80.6 47.3	00:0	1 40	79.9 45.5	00:6	1.40	79.4 47.4	
6 I NN I NG	L_50	13.4 45.8	9 I NN I NG	L_50	79.7	9 I NN I NG	L_50	80.1 45.9	9 I NN I NG	120	79.3 44.5	9 I NN I NC	L_50	78.7 46.6	
HIUD BE	L_60	72.2	R100 BE	<u>ل 60</u>	19.1 44.6	R100 BE	L_60	79.7	RIOD BE	L-60	78.6 43.7	R100 BE	L_60	78.1 45.8	
TIME PE	L_70	70.4 41.6	TIME PE	L_72	78.4 43.8	TIME PE	L_10	79.2 43.5	TIME PE	L_79	78.1 43.0	TIME PE	L_79	77.3 45.1	
OR THE	L_00	68.5 40.6	OR THE	L_80	77.6 43.0	43.0 JR THE T	L_80	78.6 42.7	OR THE	L- 80	77.4 42.4	OR THE	L .80	76.5 44.3	
IMMARY F	L_90	66.6 39.8	JMMARY F	L-20	76.0	MMARY F	L_90	17.8 41.9	ММАRY F	L_20	76.4 41.7	ИМАRY F	L_90	75.2 43.2	
DATA SU	L_25	65.2 39.3	DATA SU	L_25	74.5 41.8	DATA SU	L. 25	11.1	DATA SU	L_95	75.5 41.3	DATA SU	261	74.1 42.6	
	L_99	62.6 38.7		L_92	1.17		L 29	75.6 40.3		L_99	73.5 40.4		L_29	72.2	
	CHANL	- ~		CHANL	- 2		CHANL	5		CHANL	- ~		CHANL	- 2	

83

CONCLUDES MAY 22, 1979, 19:00

MAY 23, 1979, 11:00

2 ONE-HOUR RUNS

		INI	63.69 50 2			INI_	83.4 68.34
		-778	92.1			NPL-	92.3 64.5
I A	:	L516	4°0	n • n	TA .	1516	2.9
ARIF DA		LEPS	1.1		ABLE DA	LEPS	6.8 6.7
CENT US		LEQ_	80.3	6.86	CENT US	LE9	80.7 57.1
IAA PER			69.0	<b>C.</b> 60	100. PE		89.2 65.5
SED ON 1		L-5-	05.7	4.20	SED ON	L-5-	86.1 61.0
9 V B V V		11_1	83.6	9.94	00 BAS	<b>١-1</b>	84.0 59.2
. CT 3NT	- 71 OVI	L_20	81.2	58.0	11NG 13:	L.20	81.6 57.7
UND CHU		1_30	1.91	51.0	AND ENC	L_30	00.1 56.8
00.11	77.11	7-40	78.5	56.2	12:00	L_40	79.1 56.1
	ONTAINTO	L_50	11.6	55.5	O I NN I NG	L_50	78.2 55.5
	KIUD BC	L_60	76.8	55.0	RIOÙ BE	L_60	77.4 54.9
	I ME LE	L_70	76.0	54.4	TIME PE	L_12	76.6
	UK THE	L40	75.0	53.7	OR THE	1-62	75.5 53.7
	инаку н	L_90	13.6	52.9	MMAR' F	L 29	74.2
	DATA SU	L_95	72.4	52.3	DATA SU	L_25	73.0
		L_99	69.8	51.3		1-99	70.9 51.2
		CHANL		2		CHANL	~ ~

CONCLUDES MAY 23, 1979, 11:00
tinued)	
(con	
2	
Ē	
AB1	
$\mathbb{T}^{f}$	

MAY 23, 1979, 14:00

12 ONE-HOUR RUNS

	TNI	82.2 51.3		THT.	76.6 52.5		101	73.6 58.5		-INI	70.8 55.9		-InI	72.6 61.1	
	<u>191</u>	90.6 67.4		NPL_	6.9.9 0.63		NPL_	87.9 72.7		NPL	86.5 70.5		NPL_	87.1 74.0	
1 A	L516	4 • 1 3 • 5	IA	L516	3.4 3.9	A I A	L516	3.0 5.0	AIA	1516	2.7	TA	1516	3.0	
ABLE DA	5737	6.5	ABLE DA	LEPS	6.1 7.0	AALE DA	LEPS	6.5 7.0	SABLE DI	LEPS	6.3 7.0	ABLE DA	LEPS	6.8 7.3	
CENT US	LEQ_	80.1 58.3	RCENT US	LEO	80.6 59.1	SCENT US	LEQ	80 <b>.</b> 3 59.8	RCENT U	LEQ	79.7 59.4	RCENT US	LEQ.	79.3 59.5	
100. PEF	L_1_	88.1 68.9	100. PEH	L-1-	88.0 69.4	100. PE	L_1_	07.6 69.4	100. PE			100. PEF	1-	87.2 69.4	
SED ON	L_5_	85.1 63.3	SED ON 1	L_5_	85.1 64.5	SED ON	L.5_	84.3 65.6	SED ON	L 5	83.6 65.2	SED ON 1	L_5_	83.4 66.7	
:00 BAS	1_10	83.4 60.4	:00 HAS	1_10	83.5 61.6	100 BAS	L_10	82.7 63.1	100 BA	1_10	81.8 62.2	00 BAS	L_10	81.7 62.8	
11NG 15	L_29	81.3 58.1	01 0NIC	L_20	81.7 58.9	11 9NIC	L_20	81.1	DING 18	L_20	80.3 59.6	:61 9NI0	L-29	80.1 58.7	
AND EN	L_30	00.0 57.1	AND ENI	L30	80.6 57.8	AND EN	L_30	80.2 58.2	AND EN	L_30	79.6 58.3	AND ENC	L_30	79.2	
14:00	L. 40	78.9	15:00	L 40	79.8 57.1	3 16:00	L_40	79.5	9 17:00	L 40	79.0 57.3	18:00	L_40	78.5 56.3	
CINNING	L_50	78.1 55.9	61NNINC	L_50	79.1 56.6	6 I NN I NG	L_50	78.9	EGINNIN	L_50	78.4 56.6	9N1NN19	L_50	77.8 55.6	
ER100 RE	L_62	77.3 55.3	CR100 06	L_60	78.5	ER100 BH	L_60	78.3 56.2	ER100 B	L_60	77.9	RI0D BE	L_60	77.2	
TIME PI	۲1	76.4	TIME PI	L79	77.8	TIME PI	L_19	77.6 55.7	TIME PI	L_79	77.3 55.4	TIME PE	٣- ٢٥	76.6 54.6	
OH THE	L_ <u>00</u>	75.3 54.2	OR THE	L_80	17.0 55.2	FOR THE	1. <u>. 8</u> 9	76.9 55.2	FOR THE	L_80	76.6 54.9	OR THE	L_80	75.8 54.0	
и тилит	L_90	73.8 53.4	MMARY I	120	75.8 54.6	и тими	L_90	75.8 54.7	<b>ј</b> ммару I	L_20	75.5 54.3	ММАНҮ F	L_92	1.11	
DATA SI	L_95	72.5 52.7	NATA SU	56- <b>1</b>	74.6 54.1	DATA SU	<b>1</b> _95	74 • B 54 • 2	DATA SI	<b>L</b> _25	74.6 53.8	DATA SU	L_95	73.9 52.9	
	<b>L</b> _92	70.7		L_92	72.4 53.3		<u>L</u> _29	73.1 53.2		<u>L_99</u>	72.9 53.0		L_99	72.2 52.1	
	<b>CUAPL</b>	- ~		CHANL	- ~		CHANL	~~~		CHANL	۲ ۲		CHANL	<u>– N</u>	

85

~
1
5
- d)
÷
• – •
11
-
-
0
$\cup$
- C 1
0
J
J
5 5 5
2 (0
2 (0
2 (0
E 2 (c
LE 2 (c
3LE 2 (c
BLE 2 (c
ABLE 2 (c
TABLE 2 (c

MAY 23, 1979, 14:00 CONTINUED

	DATA S	UMMARY	FOR THE	TIME PI	ERIOD BE	9 I NN I NG	19:00	AND ENC	1NG 20:	00 BAS	ED ON	100° PE	SCENT US	ABLE DA	IA		
L 99	L_95	L_20	L_00	L_70	L 60	L_50	L 40	<u> 76</u> -1	L_20	1_10	L 5		LEQ	LEPS	1516	NPL	INI_
69.8 51.8	71.9 52.6	72.9 53.1	74.3 53.8	75.8 54.5	75.9 55.2	76.6 55.8	77.3	78.1	79.0 58.8	80.8 62.7	83.0 66.5	87.4	78.4 59.6	6.7	5 9 5	86.7 73.5	74.2
	DATA SI	ИМАНҮ	FOR THE	TIME PE	ERIOD BE	9 I NN I NG	20100	AND END	116 21:	SA8 00	ED ON 1	00. PEA	ICENT US	ABLE DA	IA		
L_99	L_25	L_90	L_80	1 70	L_60	L_50	1 40	L_30	L_20	1_10	L 5-	L.L	LEQ	LEPS	1519	NPL_	INI
67.5 51.0	69.9 52.4	71.0	72.4	13.5	74.3	75.2	76.0 56.8	76.9 58.0	78.0	79.8	82.4 65.6	86.9 69.4	17.5	7.2	3.6 5.4	86.8 73.5	76.1 62.9
	DATA SI	UMMARY	FOR THE	TIME PE	ERIOD BE	6 I NN I NG	21:00	AND END	1NG 22:	00 BAS	ED ON 1	00. PEF	ICENT US	ABLE DA	TA		
L_99	L_25	L_20	L_80	1_18	L 60	L_50	L_40	L_30	L_20	110	5		LEQ	LEPS	1516	NPL-	INI
69.1 51.1	71.8 52.5	73.3 53.3	74.9 54.9	75.9 55.8	77.0 57.0	77.8 58.3	78.6 60.0	79.5	80.4 64.4	82.0 68.5	83.6 69.4	87.3 69,5	79.4	6.8 6.7	3.2	87.7 83.1	78.1 84.1
ch.	1, 21:00 Data Si	ummaky	ike brou FOR THE	IIME PE	because	of rain GINNING	n. 22100	AND END	106 231	00 BAS	ED ON 1	00. PEF	icent us	IABLE DA	I A		
1_99	L_25	L_90	L-80	L_70	L_60	L_50	L 40	L_30	L_20	פר	2		LEQ	LEPS	5121	NPL	-INI
68.9 51.7	72.2 52.8	73.4 53.5	74.9	76.1	77.0 55.6	77.8 56.2	78.6 57.0	19.4	80.5 58.9	82.9 60.6	87.1 63.9	94.9 69.4	82.2		4 • 0 4 • 6	92.4 67.8	61.5 52.0
	UAIA	унимну	F UR THE	TIME	ER100 BI	EGINNIN	6 23:00	AND EN	DING	:00 BA	SED ON	100. PE	RCENT U	SABLE DI	ATA		
L_95	1 L_25	L_20	L_80	L_70	L_60	L_50	L_40	L_30	L_20	L_10	1-5-1		LEQ	LEPS	1516	NPL_	INI
59°5	60.4 50.7	60.4	60.6 52.7	60.7 53.6	60.8	60.9 55.0	61.1	61.2	72.5	79.5	63.5	89.8	11.1	9.9	14.5 5.0	114.3	106.9

	`
τ	3
1	)
~	4
_	•
Ω	2
• –	ł
+	ر
ç	1
C	)
C	۱
~	•
2	,
) (	1
р о (,	1
1.F 2 (1	
RIF 2 (1	
ARLF 9 (1	
ARLF 2 (	

. , MAY 23, 1979, 14:00 CONTINUED

	INI	66.2 46.3		INI	66.2 4 <b>8.</b> 5	
	<u>. 191</u>	95.8 62.5		-YON	96.2 62.4	
11.0	1516	.0 3.1	V I	L516	.0 3.2	
SABLE DI	LEPS	3.8 8.2	ABLE DA	LEPS	1.2 8.9	
RCENT US	LEO	95.8 54.6	ICENT US	LEQ	96.2 54.1	
100. PEF		96.2 65.0	98. PER	L_1_	96.2 66.6	
SED ON 1	L 5	96.2	ED ON	L 5	96.2 56.7	
00 BAS	1-10	96.2 56.1	26 BAS	1_10	96.2	
1 9NI0	L_20	96.2 54.8	1 9NI	L-29	96.2 54.0	
AND EN	L-30	96.2 53.9	AND END	L_30	96.2 53.0	
00:	L 40	96.2 52.9	1:00	L_40	96.2 52.2	
ONINNI9:	L 50	96.2 52.2	9 N N N N P	L_50	96.2 51.2	
.R10D BE	L_60	96.2	R,10D BE	L_60	96.2 50.1	
TIME PE	L_19	96.2 50.9	TIME PE	L_70	96.2 49.2	
OR THE	L_00	96.2	OR THE	L_ <u>80</u>	96.2 48.4	
ИМАРҮ Б	1 <u>-9</u> 0	96.2 49.4	ММАRY F	L_90	96.2 47.6	
DATA SL	L_25	60.9 48.7	<b>DATA</b> SU	L_25	96.2 47.1	
	L_99	60.4 47.8		<b>L</b> _22	96.2 45.2	
	CHANL	1 2		CHANL	- 2	

CONCLUDES MAY 23, 1979 14:00

						Σ	IAY 24,	1979, (	<b>)2:30</b>	•								1776
12 ONE	-HOUR RI	SNU																
		DATA SL	MMARY F	FOR THE	TIME PE	ERIOD BE	0 I NN I O	2130	AND ENC	11NG 3:	00 BAS	ED ON 1	100. PER	ICENT US	ABLE DA	TA		
CHANL	L_99	L_95	L_20	L'100	L_70	L 60	L_50	140		L_20	1 10	L 5		LEQ.	LEPS	1516	NPL_	In.
- 2	60.5 41.4 Ch. 1	<b>61.2</b> <b>43.8</b> 02:30	<b>61.8</b> <b>45.4</b> mike re	62.8 46.5 install	<b>63.8</b> <b>47.8</b> ed.	64.8 48.6	66.1 49.7	67.5 50.8	69.2 51.9	71.9 53.1	75.6	79.3	85.1	72.9 52.5	8.6 8.8	7.4 3.8	91.9 62.3	87.0 52.1
		DATA SU	IMMARY F	FOR THE	TIME RE	CRIOD BE	<b>GINNING</b>	3100	AND END	1 NG 41	00 BAS	ED ON 1	00. PER	CENT US	ABLE DA	1 A		
CHANL	L_99	L_25	L_90	1-180	- 10	i 60	1 50	1 40	L_30	L_20	1.10	L 5		LEQ	LEPS	1516	NPL-	INI.
- 2	60.1 40.9	60.7 42.1	61.1 43.0	62.] 44.]	63.2 45.4	64.2	65.4	66•9 48.8	68.9 50.1	71.5	74.9 53.6	11.1	84.9 57.8	72.7	9.7	7.4 4.6	91.8 61.6	86 <b>.1</b> 55.4
		DATA SU	ИНАЯТ Е	FOR THE	TIME RE	ER100 BE	0 I NN I NC	4:00	AND END	1NG 51	00 BAS	ED ON 1	00. PER	ICENT US	ABLE DA	IA		
CHANL	L_92	L_95	L_20	L-290	1.18	1 60	L_50	140	0E - 1	L_20	<b>01 - 1</b>	<b>L</b> 5		LEQ	LEPS	1516	NPL.	INI.
5	60.3 40.6	61.2 43.6	62.0 44.9	63.5	64.9 49.0	66.1 50.6	67.3 51.9	69.0 52.9	1.65	73.8 54.8	76.8	80.6 57.4	86.8 60.4	74.7 53.3	9.3 7.3	7.5 3.3	93.8 61.9	91.4 60.0
		DATA SU	<b>ј</b> МНАРУ F	FOR THE	TIME PE	ER100 BE	9 I NN I 9	5100	AND END	19 9NI	00 BAS	ED ON 1	.00. PER	ICENT US	ABLE DA	IA		
CHANL	L_99	L_95	1.90	L_00	1_10	1 60	1_1	1 40	1.30	L_20	1_10	1.5		LEQ	LEPS	1516	NPL.	INI_
- 2	62•3 46•2	64.7 41.5	66.3 48.8	68.5 51.3	70.4	54.4	73.4 55.3	74.8	76.0 56.8	11.6 57.7	80.2 58.8	83.0	87.3 68.2	17.0 57.1	7.8 7.5	5°3	90.5 64.2	91.9 58.8
		DATA SI	иммаку	FOR THE	TIME P	ER100 81	EGINNING	3 6100	AND EN	1 9NIO	100 BAS	SED ON	100. PEI	RCENT US	SABLE DA	ITA		
CHANL	L_99	1.95	L_20	L=80	L- 78	1-60	L_50	140	L_30	L_20	פון	-1		LEQ	LEPS	1516	NPL_	INI.
- 2	71.6	73.7 55.5	74.9	76.3	11.2	57.3	78.5	79.1	19.1	80.6 59.0	62°3 59•9	84.0 62.0	87.4 67.8	79.9 58.9	6.8 6.4	3.0 1.8	87.6 63.5	74.6 42.0
						:				,								

(continued)	
2	
TABLE	

MAY 24, 1979, 02:30 CONTINUED

59.2 59.9 61.1 64.2 67.8 69.4 61.3 5.7 4.3 72.3 56.6   16 8100 AND ENDING 9100 BASED ON 100. PERCENT USABLE DATA 101.1 12.3 56.6   140 L-30 L-20 L10 L5 L.1 L60 LE0 LE5 L31 814.5 57.3 56.6   79.4 80.0 82.7 84.6 80.2 80.3 6.9 4.5 72.2 57.1   79.4 80.0 82.7 84.6 80.2 60.3 6.9 4.5 72.2 57.1   79.4 80.0 63.9 67.3 69.4 60.18 6.5 3.1 80.2 73.6   79.4 80.0 63.9 69.4 60.18 6.9 4.5 72.2 57.1   79.4 80.0 63.9 69.4 60.18 6.9 4.5 72.2 57.1   16 91.0 80.1 60.2 80.3 60.1 60.8 59.1 60.6 60.3 60.9 60.3
L40 L30 L20 L10 L5 L1 L60 180.2 180.2 180.2 131.6   79.4 80.0 80.9 82.7 84.6 80.2 80.3 6.9 3.1 80.2 51.3   58.5 59.1 60.0 63.8 67.3 69.4 60.0 6.9 4.5 73.4   16 9:00 AND ENDING 10:00 BASED ON 100. PERCENI USABLE DATA 101.   16 9:00 AND ENDING 10:00 BASED ON 100. PERCENI USABLE DATA 101.   178.9 79.8 81.0 69.3 80.1 6.6 3.0 89.9 73.6   18.9 79.8 59.4 59.1 6.6 3.0 89.9 76.0 46.5   78.9 79.6 63.3 68.7 59.1 6.6 2.7 66.0 46.5   78.9 59.4 59.1 6.6 89.3 80.1 6.6 2.7 66.0 46.5   78.9 59.4 59.1 6.6 2.7 66.0 46.5 46.5
79.4 80.0 80.9 82.7 84.6 80.2 80.3 6.9 4.5 73.2 57.1   58.5 59.1 60.0 63.8 67.3 69.4 60.8 6.5 3.1 80.2 57.1   16 9:00 AND ENDING 10:00 BASED ON 100. PERCENI USABLE DATA 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1
16 9:00 AND ENDING 10:00 BASED 0N 100. PERCENI USABLE DATA   L 40 L 30 L 20 L 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10<
L 40 L 30 L 20 L 10 L 5 L 1 L 60 L 615 L 51G NPL IML   78.9 79.8 81.0 83.0 84.9 88.3 80.1 6.6 3.0 89.9 78.3   57.8 59.4 59.2 60.8 63.3 68.7 59.1 6.6 3.0 89.9 78.3   6 10:00 AND ENDING 11:00 BASED ON 100. PERCENT USABLE DATA 6.0 46.9   L 40 L 30 L 30 L 41 L 5 L 1 L 62 L 51G MPL 1N1   78.7 79.7 81.0 83.4 85.5 88.7 80.2 6.8 4.4 91.4 01.8   78.7 59.1 59.5 7.2 3.5 60.5 51.4
78.9 79.8 81.0 83.0 84.9 88.3 80.1 6.6 3.0 89.9 78.3   57.8 58.4 59.2 60.8 63.3 68.7 59.1 6.6 2.7 66.0 46.9   6 10:00 AND ENDING 11:00 BASED ON 100. PERCENT USABLE DATA 1 1 1   L 40 L 20 L 2 L 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6 10:00 AND ENDING 11:00 BASED ON 100. PERCENT USABLE DATA   L +0 L -30 L -20 L -10 L -5 L -1 L -0 L -16 NPL IN1   78.7 79.7 01.0 03.4 05.5 08.7 00.2 6.8 4.4 91.4 01.0   57.3 58.1 59.0 61.3 64.9 69.4 59.5 7.2 3.5 60.5 51.4
L 40 L 30 L 20 L 10 L 5 L 1 L 60 L 6 2 L 5 L 1 INI 18.7 79.7 81.0 83.4 85.5 88.7 80.2 6.8 4.4 91.4 01.8 57.3 58.1 59.0 61.3 64.9 69.4 59.5 7.2 3.5 60.5 51.4
78.7 79.7 81.0 83.4 85.5 88.7 80.2 6.8 4.4 91.4 01.8 57.3 58.1 59.0 61.3 64.9 69.4 59.5 7.2 3.5 60.5 51.4
L-40 L-30 L-20 L-10 L-5 L-1 LEQ LEPS LSIG NPL INI

TABLE 2 (continued)

HAY 24, 1979, 02:30 CONTINUED

		DATA SL	имаят	FOR THE	TIME PI	ERIOD BE	9 I NN I NG	12:00	AND ENC	EL DNIO	00 BAS	SED ON 1	100. PEA	ICENT US	ABLE DA	LTA		
CHANL	L_22	L_25	L_20	1.+90	L_79	L_60	L 50	L 40	L_30	L_20	1_10	L.5.	L_1_	LEQ	2431	1516	-141	THI
-	6.9	72.1	13.2	74.8	75.8	76.6	17.4	18.3	19.2	80.6	0.69	84.9	8.8.6	19.8	7.0	<b>6.</b> 4	6.06	82.1
N	52.0	53.4	54.0	54.9	55.6	56.1	56.7	51.2	58.0	20.1	61.8	65°5	69.4	59.5	1.1	4.0	69.60	2•44
		DATA SI	унаар	F0R 111E	TIME PI	ERIOD BE	9 NN NN 1 9	00:E1 (	AND END	14: 9NI	00 BAS	5ED ON 1	100. PEF	ICENT US	ABLE DA	A L		
THVIDS	L_99	L_95	L_20	L_60	L_19	L_60	L.50	1 49	<u>1_30</u>	L_20	110	- 5	L. J.	LEQ	LEPS	1519	NPL-	TNT
- ~	70.8 52.6	72.8 53.8	73.9	75 <b>.</b> 3 55 <b>.</b> 2	76.2 55.8	17.0	17.7	78.5	79.5	80.8 59.1	83.1 60.7	84.9 62.4	88.1 66.3	79.9 58.4	6.7 6.2	4 • 2 9 • 0	90.6	00.6 49.6

CONCLUDES MAY 24, 1979, 02:30

TABLE 2 (continued)

MAY 24, 1979, 15:00

2 ONE-HOUR RUNS

ľ

L 50 L 40 L 30 L 20 L 10 L 2 L 1 LEU LEE LEE LEE LEE LEE LEE LEE LEE LEE	DATA SUMMARY	DATA SUMMARY	UMMARY		FOR THE	I IME PI	5R100 BE	0 I NN I NG	15:00	AND ENU	191 911	00 DAS	ED ON 1	00. PER	CENT US	ABLE DA	17A 1 5 1 5	Idn	1 11
78.4 79.0 79.7 80.7 82.3 83.7 86.8 79.7 6.1 3.1 87.6 58.3 58.7 59.1 59.7 61.2 63.1 69.2 59.6 6.3 2.3 65.4 51NNING 16:00 AND ENDING 16:59 BASED ON 100. PERCENT USAULE DATA L 50 L 40 L 30 L 20 L 10 L 5. L 1 LEQ LEPS L51G MFL	L 22 L 25 L 20 L 20 L 10 L 50	L 25 L 20 L 20 L 10 L 60	L_20 L_80 L_10 L_60	L.00 L.10 L.60	L_10 L_60	L 60		L_50	L 40	1-30	L_20	1_1	- E		LEO	וברא	5121	N L	ı
58.3 58.7 59.1 59.7 59.7 51.2 53.1 59.2 53.9 59.2 59.9 59.5 59.1 59.7 59.1 59.7 59.1 59.7 59.1 59.1 50.1 50.1 50.1 50.1 50.1 50.1 50.1 50	12.9 14.5 15.3 16.4 11.1 11.8	74.5 75.3 76.4 77.1 77.8	75.3 76.4 77.1 77.8	76.4 77.1 77.8	11.1 77.8	17.8		78.4	19.0	19.7	80.7	82.3	63.7	86.8	1.61	6.1 2	н. С. С.	87.6	
SINNING 16:00 AND ENDING 16:59 BASED ON 100. PERCENT USAULE DATA L 50 L 40 L 30 L 20 L 10 L 5. L 1 LEQ LEPS LSIG NPL.	55.6 56.2 56.6 57.1 57.5 57.9	56.2 56.6 57.1 57.5 57.9	56.6 57.1 57.5 57.9	57.1 57.5 57.9	57.5 57.9	51.9		58.3	58.7	59.1	1.65	2.10	1.60	7.60	0.40	•••			
L-50 L-40 L-30 L-20 L-10 L-5. L-1. LE9. LEPS L516 NPL.	DATA SUMMARY FOR THE TIME PERIOD BE	DATA SUMMARY FOR THE TIME PERIOD BE	UMMARY FOR THE TIME PERIOD BE	FOR THE TIME PERIOD BE	TIME PERIOD BE	ERTOD BE	1.1	6 I NN I NG	16:00	AND ENC	191 9NI	59 BAS	ED ON	100. PER	CENT US	ABLE DA	114		
	1-29 L-25 L-20 L-30 L-70 L-60	L-25 L-20 L-20 L-70 L-60	L_20 L_80 L_70 L_60	L'80 L_10 L_60	L_10 L_60	L_60		L_50	L 40	0E_1	L_20	1-10	1-5-1		LEO	LEPS	1516	NPL	

69.1 57.9

85.8 72.6

2.3 4.5

5.4

79.9

86.1 69.4

83.2 67.7

82.0 64.3

80.9 61.1

80.2 59.9

79.6 59.2

79.0 58.6

78.5

78.0 57.5

77.3 57.0

76.3

75.5 56.0

73.6 55.2

- ~

91

CONCLUDES MAY 24, 1979, 15:00

		TNT	71.4 62.2		INI	13.1			<b>TNI</b>	75.8 58.8		INI.	73.0 59.5			TNI	72.6 62.6
		uPL_	86.2 73.0		TaN	85.7 72.1			-171	86.9 70.8		NPL_	85.0 70.9			- T-IN	84.8 73.5
	ΓA	1516	2.8	A	5 <b>1</b> 57	3.0		l A	L516	3.8 4.8	I A	1516	6.0°		IA	1516	3.0 5.5
	ABLE DA	LEPS	6.2	AULE UA	LEPS	6.6 7.0		ABLE DAT	LEPS	7.1 7.5	ABLE DA	LEPS	7.1 7.4		ABLE DA	LEPS	6.8 7.4
	CENT US	LEQ	79.2 61.0	CENI USI	LEQ.	78.0 60.2		CENT US	LEQ	77.3 58.5	CENT US	LEQ	76.6		CENT US	LEQ	17.1
;	00. PER		86.5 69.4	00. PEK		86.2 69.4		00. PERC		86.9 69.4	00. PER	-1-1	85.9 69.4		00. PER	<b>L.1</b>	85.6 69.4
	ED ON I	L 5	83.0 67.3		15	82.3 66.4		t NO DE	1-5-1	82.4 64.2	ED ON 1	L-5-	1.18		ED ON 1	LS	81.4 65.0
	00 BASI	1_10	81.4 64.2		1_10	80.3 63.1		DO BASE	L_10	79.8 61.2	00 BAS	110	78.7		00 BAS	1.10	79.3 62.5
	191 191	L.20	80.1 61.6	1NG 201	L_20	78.8 60.3		ING 21:0	L_20	77.7 58.3	1NG 22:	L.20	77.1		ING 23:	L_20	77.8 59.7
	AND END	L_30	79.2 60.3	AND END	1.30	77.9 58.8		AND END	1-30	76.7 56.9	AND END	L 30	76.1	-	AND END	L_30	76.9 57.7
	18:00	L_40	78.5 59.3	10:41	1 40	77.2 57.9		20:00	L_40	75.8 55.8	21:00	L 40	75.3		22:00	L 40	16.2
	3 I NN I NG	L 50	77.9 58.3	ONTINUTS	h_50	76.5 57.1		9 I NN I NC	L_50	75.0 55.0	0 I NN I NC	L 50	74.5 54.6		9 I NN I NG	L_50	75.5 55.5
	R10D BE	<u>162</u>	57.3		1 60	75.9 56.4		38 0018	L_60	74.3 54.2	R100 BE	L_60	73.8 53.7		R100 BE	L 60	74.7 54.7
	TIME PEI	L_79	16.1 56.5		1_10	75.1	:	I IME PE	1-10	73.5 53.5	TIME PE	1_10	72.9		TIME PE	110	73.9 54.1
	UR THE	L.' <u>8</u> 0	76.0 55.8		L_100	74.1 55.1		OH THE	L_80	72.5	OR THE	L80	72.0 52.2		OR THE	L_00	72.9 53.4
	MMARY F	L_20	74.8 54.9	MMANT F	<b>L_90</b>	72.8 54.3		HARY FO	L_90	71.1	MMARY F	L_20	70.6		MMARY F	L_20	71.6 52.5
SNU	DATA SU	L_95	73.8 54.3		L_25	71.6 53.8		DATA SUI	L_25	69.9 51.3	DATASU	L_25	69.6 51.0		DATA SU	L_95	70.5 51.9
-HOUR R		L_29	72.1 53.5		L_22	66°.7			L_92	67.8 50.2		L_92	67.4 50.2			L_92	68.0 50.3
II ONE		CHANL	- ~i		CHANL	1			CHANL	- 2		CHANL	- 2			CHAN.	7

MAY 24, 1979, 18:00

TABLE 2 (continued)

92

continued)
~
14
B
A
E

MAY 24, 1979, 18:00 CONTINUED

	a	ATA SI	<b>ИМА</b> РУ	FOR THE	TIME PE	ERIOD BE	GINNING	23:00	AND END	11NG :	00 BAS	ED ON 1	00. PER	CENT US	ABLE DA	TA		
L-29 L-25 L-20	L_25 L_20	L_20		L_80	L_10	L_60	L_50	L 40	L_30	L_20	1_10	L 5	-1-1	LEQ	LEPS	1516	NPL_	-INI
67.2 69.0 70.3 50.1 51.1 51.6	69.0 70.3 51.1 51.6	70.3 51.6		71.8 52.6	72.9 53.2	74.0 53.8	74.9 54.5	75.7 55.3	76.6 56.6	77.5 58.0	79.1 60.4	81.3 62.5	86.2 69.4	76.8	7.6	3°3	85.3 69.9	75.4 56.9
DATA SUMMARY F	DATA SUMMARY F	JMMARY F	, ŭ	OR THE	TIME PE	R100 BE	9 I NN I NG	:00	AND END	1 9NI0	00 BAS	ED ON 1	00. PER	ICENT US	ABLE DA	IA		
L_22 L_25 L_20	L_95 L_90	L_20		L_00	L_70	L_60	L_50	L 40	L_30	L-20	פור	L.5.	L.	LEO	LEPS	1516	NPL_	INI
62.7 65.4 66.8 45.9 47.6 48.3	65.4 66.8 47.6 48.3	66.8 48.3		68.7 49.3	70.0	71.4	72.6	73.9 52.3	75.1 53.2	76.4	78.7 55.9	81.6	86.6 64.2	76.1 54.2	8.1 8.4	4.7 3.5	88.1 63.1	84.1 48.0
DATA SUMMARY F	DATA SUMMARY F	<b>ј</b> ммару F	<u> </u>	3H1 H0.	TIME PE	R100 BE	9 N N N N O	1:00	AND END	11NG 2:	00 BAS	ED ON 1	00. PER	ICENT US	ABLE DA	L A		
L-22 L-25 L-20	L_25 L_20	L_20		L.89	L_10	1 <u>-60</u>	L_50	L 40	1_30	L_20	1_10	L-5		LEO	LEPS	1516	NPL_	<b>INI</b>
60.5 61.6 62.6 41.3 43.5 44.6	61.6 62.6 43.5 44.6	62.6 44.6		64.3 46.0	65.8 46.8	66.9 47.7	68.2 48.6	69.6 49.5	71.4 50.5	73.2 52.0	75.9	78.8 56.0	84,5 59,4	13.1	8°5 8*2	6°0 4	80.5 61.5	85.6 51.0
DATA SUMMARY F	DATA SUMMARY F	JMMARY F	L.	OR THE	TIME PE	RIOD BEI	9 I NN I NG	2:00	AND END	ING 31	00 BAS	ED ON 1	00 <u>.</u> PER	CENT US	ABLE DA	IA		
L-22 L-25 L-20	L_25 L_20	L_20		1 80	1 79	L_60	L_50	1 40	L_30	L_20	1_10	L-5-		LEG	LEPS	5131	-1911	INI
60.1 61.2 61.9 40.2 41.4 42.1	61.2 61.9 41.4 42.1	61.9 42.1		63.1 43.4	64°3 44°3	65.5 45.2	66. 7 46.4	68.2 41.9	70.3	72.5	75.6	79.1	85.7 58.7	73.4	8.9 8.3	7.0	91.3 64.1	06.8 57.5
DATA SUMMARY F	DATA SUMMARY F	ИМАКҮ F	1.	OR THE	TIME PE	RIOD BE	9 I NN I NG	3:00	AND END	1NG 4:	00 (JAS	ED ON 1	00. PER	CENT US	ABLE DA	ΙA		
L_22 L_25 L_20	L_95 L_90	L_90		L_40	L_10	L_60	L_50	L_40	0E_1	L_20	1-10	L 5		LEQ	LEPS	1516	NPL-	INI
59.7 60.4 61.1 38.2 39.8 41.1	60.4 61.1 39.8 41.1	61.1 41.1		62.3 42.6	63.5 43.9	64.7 45.2	65.9 46.4	67.3 47.8	69.3 49.1	71.6	75.0	78.5	84.6 57.7	72.6	0°0	7.2	91.0 62.3	86.9 58.4

MAY 24, 1979, 18:00 CONTINUED

90.7 61.1 NPL_ 1.2 1516 DATA SUMMARY FOR THE TIME PERIOD BEGINNING 4:00 AND ENDING 4:43 BASED ON 100. PERCENT USABLE DATA 8.7 6.9 LEPS 72.1 50.2 LEQ 83.8 L_L 77.9 55.0 15 75.1 53.6 L_20 72.0 L_30 69.7 50.1 <u>1 40</u> 67.7 49.1 L_50 65.9 48.1 L_60 64.5 47.0 1_12 63.2 46.2 L.80 62.0 45.3 L_90 61.0 43.5 L_25 60.4 42.2 L_22 59.7 40.3 CHANL - 2

87.6 53.6

INI.

CONCLUDES MAY 24, 1979, 18:00

continued)
2
<b>TABLE</b>

MAY 31, 1979, 12:30, 13:00, 13:30, 14:15

4 SHORT MEASUREMENTS

	INI	82.1 65.4		-IN	9.9 4.E		-TNT	79.0 49.3		INI	83.2 14.5	
	<u>191</u> _	91.6		10r-1	1.1 7		NPL	90.7 67.0		NPL	92.1 86.9	
ΛTΑ	L516	4.2 3.0	A	1 913	2.4.1	K	1510	3.7	٩	L516	4•5 3•0	
SABLE D	LEPS	6.8 6.5	BLE DATA	LEPS	6.4 5.1	ALE DAT	LEPS	6.1 7.4	BLE DAT	LEPS	6 . B 5 . 6	
CENT UP	LEQ	81.0 69.4	ENT USA	LEG	80.7 64.5	CENT USA	LEQ	81.3 62.0	ENT USA	LEQ	80.5 79.1	
100. PEI	L_1_	0.01 11.0	B. PERC		88.6	00. PERC		88.5 66.4	00. PERC	T T	87.9 85.5	
SED ON	L_5_	85.9 73.4	6 NO 0	L-5-	85.9 67.6	ED ON 10	L_5_	86.1 64.6	01 NO 0	L.5.	85.6 83.2	
:45 BAS	١-1	84.0 71.9	5 BASE	1-10	83.9 66.A	45 BASI	1.10	84.3 63.6	30 BASE	L_10	83.9 81.9	
1100 123	L-20	02.2 70.4	NG 13:1	L_20	81.7	ING 13:	L_20	82.4 62.7	ING 1413	L_20	01.8 80.4	
AND EN	L10	80.7 69.4	ND ENDI	L_30	80.4 65.0	AND END	L_30	81.3 62.0	AND END	1_30	80.2 79.5	
12:30	L_40	79.6 68.7	13:00 A	1 40	79.4	13:30	L_40	80.3 61.5	14:15	L 40	79.0 78.8	
0 I NN I NG	L. 50	18.1	9 I NN I NG	L-50	78.6 63.7	6 I NN I NG	L_50	79.5	9 I NN I NG	L_50	78.1 78.1	
R100 HE	L_60	611.9 61.3	310D BE(	L_60	78.0 63.2	R100 BE	L_60	78.8	R100 BE	L_60	17.4 17.4	
TIME PE	L_79	77.0	I I ME PEF	L_70	77.3 62.6	TIME PE	119	78.2 60.0	TIME PE	L_70	76.4 76.6	
OR THE	L0.0	76.2 65.4	OR THE .	L_00	76.4 62.0	OR THE	L_00	6.77 59.3	OR THE	L_80	75.5	
ММАРУ F	L_90	74.7 64.1	MMARY FI	L_20	75.4 61.3	ИМАРҮ F	L_90	75.8 58.4	ММАНҮ F	L_20	74.2 74.4	
DATA SU	L_25	73.3 63.3	DATA SUI	L_25	74.2 60.9	DATA SU	L_25	74.6 57.8	DATA SU	L_25	73.2 73.5	
-	L_29	71.0		L_92	72.2		L_22	72.9 56.6		L_92	71.0	
	CHANL	- ~		CHANL	1		CHANL	5		CHANL	- 5	

CONCLUDES MAY 31, 1979, SHORT MEASUREMENTS

3783

																		8
						SEPTE	MBER 17	, 1979,	15:00;	15:45;	16:15							i,
							-											
3 S	нокт меа	ASUREMEN	IT'S															
		DATA SI	иммаяу і	FOR THE	TIME PI	ER100 BI	EGÍNNING	15100	AND END	11NG 15:	15 BAS	ED ON 1	00. PER	CENT US	ABLE DA	IA		
CHANL	L_22	L25	L_90	L_00	L_12	L_60	L_50	L 40	L_30	1.29	1_10	1.5	<b>L_1</b>	LEQ	LEPS	L519	- JAN	TNI
۲ 2	70.4 58.9	72.4 60.4	73.3 61.2	74.4 62.3	75.3 63.2	76.2 63.9	77.0	77.8 65.7	78.6 66.6	79.8 67.7	81.6 69.6	83.0 71.8	85.3 74.7	78.5 66.8	6.0 6.4	3.6 3.8	87.7 76.5	76.5 64.7
		DATA S	UNMARY	F OR THE	E TIME P	ERIOD B	N I NN I 93	6 15:45	AND EN	01NG 16	:00 BA	SED ON	100. PE	ACENT US	SABLE DI	ATA		
CUANL	L_22	L_95	L_20	L_80	L_12	r 60	L_50	L 40	0E-1	L_20	1-10	L 5.	1	LEQ	LEPS	9121	NPL_	TNT
- 2	71.6 56.8	14.0 57.9	75.1	76.3 59.6	77.1	17.1 60.8	78.2 61.3	78.8 61.8	79.5 62.3	80.6 63.1	82.3 64.5	83.7 65.5	86.6 67.7	79.5 62.2	0°0	2°5 5°2	87.1 66.6	73.9 51.8
		DATA SU	IMMARY F	OR THE	TIME PE	R10D BE	61 NN 1 NG	16115	AND END	191 9NI	26 BASI	NO ON	98. PER	CENT US	ABLE DAT	A		
CHANL	L_22	L_ 25	L_90	L_80	110	L 60	L 50	L 40	L_30	L_20	110	L 5		LEQ.	LEPS	1510	NPL.	INI
5	72.4 55.5	74.1 56.6	74.9	76.0	76.9 58.2	77.5 58.5	78.1 58.9	78.7	79.4 59.9	80.4 60.5	81.7 61.4	82.9 62.6	85.7 64.9	79.2 59.6	5.1	2.9 1.9	86.5 64.5	72.2

CONCLUDES SEPTEMBER 17, 1979, SHORT MEASUREMENTS

•

•

TABLE 2 (continued)

		DATA S	ИММАРУ	FOR THE	TIME PE	RIOD BE	9 I NN I NG	10:45	AND END	11 9NI	O BASE	ED ON 1	00. PER	CENT US	ABLE UA	ΤA		
CHAN	L L_22	L_25	L_20	L_84	110	L_69	L_50	L 40	L_30	L_20	1-10	5		LEQ	LEPS	1516	NPL-	-INI
~~~~	70.0	71.3	72.4 59.9	73.9 61.0	75.0 62.0	75.A 62.8	76.7 63.6	77.5 64.5	78.5 65.5	79.9 66.9	82.3 69.0	84.1 71.4	87.2 74.8	78.9 65.9	6.1 6.6	4 • 5 7 • 5	90.1 76.8	61.9 66.3
		DATA S	UMMARY	FOR THE	I IME PE	.H100 BE	9 I NN I NG	11:15	AND END	ING 111	30 BASI	ED ON	99. PEA	ICENT US	SABLE DA	IA		
CHAN	L L 29	L 95	L_20	L_60	1 10	٢-60	L 50	1 40	L30	L-20	1_10	1-5-1	L_1_	LEQ	LEPS	1516	NPL-	IIII
12	68.2 54.4	70.8 56.0	72.3	73.8 57.6	74.8 58.6	75.7 59.4	76.5 60.3	77.3 61.3	78.2 62.5	19.5 63.9	81.5 65.9	83.1 67.9	85.4 72.1	18.2 62.9	6.2 7.0	0°0 6°4	88.2 74.0	79. 0 63.4
		DATA	SUMMARY	FOR THE	E 11ME P	ERJOD B	EGINNIN	6 12:04	AND EN	DING 12	16 BAS	SED ON	100. PE	RCENT L	ISABLE D	A1 A		
CHAI	NL L_25	2 L_25	L_20	L_80	114	L-60	L_50	L 40	L_30	L_20	111	L 5		LEG	LEPS	1516	- Tali	161
2	69• 54•1	1 71.8 0 55.0	55.7	73.9 56.7	75.0 57.6	75.8 50.3	76.6 59.2	77.4 60.3	78.4 61.9	79.7 63.7	81.8 66.6	83.6 68.8	87.1 74.5	78.7 63.2	6.6 7.5	4.1 5.8	1.60	78. 69.
		DATA	SUMMARY	C FOR TH	E TIME	PER100 (DEGINNI	46 12:35	S AND EN	IDING 12	:50 BA	SED ON	99 . Pl	ERCENT	USABLE I	A I A		
CHA	NL L_2	2 L_95	L_90	1 L_ <u>8</u> 0	L_10	L_60	L_50	L 40	<u> 1. 30</u>	L_20	110	L_5_		LEQ	LEPS	1516	- TAN	INI
- ~	69. 51.	9 71.5 4 52.5	53.4	54.3	74.6	75.6 55.7	76.5 56.5	17.4 57.4	78.6	80.0 61.5	82.1 65.3	83.5 67.3	86.7 72.3	78.7 61.4	6.5 7.9	4.3 6.9	89.8 19.1	80. 71.
-	CONCLUDES	s septemi	3ER 18,	1979, S	нокт ме	ASURURI	IT'S											
																	J	2

SEPTEMBER 18, 1979, 10:45; 11:15; 12:04; 12:35

.

TABLE 2 (continued)

,

REFERENCES

 Haviland, J. K., and D. F. Noble, "Working Plan: Effectiveness of Predictive Computer Programs in the Design of Noise Barriers — A Before and After Approach", Virginia Highway and Transportation Research Council, Charlottesville, Virginia, <u>Report No. VHTRC 75-WP20</u>, March 1975.

- Noble, D. F., and J. K. Haviland, "Working Plan: Evaluation of ARMCO Sound Barriers on Two Bridges on I-495", Virginia Highway and Transportation Research Council, Charlottesville, Virginia, <u>Report No. VHTRC 76-WP33</u>, March 1976.
- Haviland, J. K., and D. F. Noble, "Effectiveness of Predictive Computer Programs in the Design of Noise Barriers – A Before and After Approach – Part I. The Data Acquisition System", Virginia Highway and Transportation Research Council, Charlottesville, Virginia, <u>Report No. VHTRC 78-R32</u>, February 1978.