

# ENVIRONMENTAL NOISE MEASUREMENTS ON INTERSTATE 57 DURING AND AFTER TRUCK STRIKE

**JUNE 1974** 

OFFICE OF NOISE ABATEMENT AND CONTROL

Washington, D.C. 20460

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P. D. Schomer B. L. Homans

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Report Prepared under Agreement between Environmental Protection Agency, Office of Noise Abatement and Control and Construction Engineering Research Laboratory of the U.S. Department of the Army

#### **FOREWORD**

The nationwide independent truck drivers' strike of February 1974, afforded a unique opportunity to ascertain the noise impact of trucks on highway noise. For an approximate one-week period beginning February 1, truck traffic—a major contributant to highway noise—was curtailed as between 100,000 and 200,000 independent truckers went on strike.

In response to the impending strike, EPA's Office of Noise Abatement and Control sought the collection of data during and after the strike in order to quantify the impact of truck traffic to overall highway noise. EPA assigned the task to the Construction Engineering Research Laboratory (CERL) of the U. S. Army Corps of Engineers. Acting under interagency agreement with EPA, CERL measured highway noise along Interstate 57 between Champaign and Rantoul, Illinois. Data collection, which began February 1, lasted two weeks thus including approximately equal periods of strike and poststrike (i.e. normal) conditions.

To permit the calculation of day, night, and day-night equivalent energy sound levels, noise data, classified according to level, were collected daily at 7 am and 10 pm. With the assistance of the State of Illinois Highway Office, traffic count data were simultaneously collected.

#### **FINDINGS**

Although data were limited, a very definite increase in equivalent sound level and traffic flow were observed for the period of February 9 to 11 (the post-strike period). The increase, which was 4dB for the day-night level, is

believed to be caused by the truck contribution to the noise environmental for the following reasons:

- 1. The increase in night level was greater than that for daytime level.

  Trucks constitute a higher percentage of nightime traffic than daytime traffic.
- 2. The statistical distributions show a larger increase for higher energy levels after strike settlement than do the middle or lower levels. This contribution would come primarily from trucks.

While it is realized that more quantitative results would have required a well planned comprehensive monitoring program, this rather small program has illustrated that trucks significantly impact on highway noise. Because of its importance, EPA is pleased to make the following CERL report available to the public.

Alvin F. Meyer, Jr.
Deputy Assistant Administrator
for Noise Control Programs

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# ENVIRONMENTAL NOISE MEASUREMENTS ON INTERSTATE 57 DURING AND AFTER TRUCK STRIKE

#### BACKGROUND

Environmental noise has been shown to be an adverse factor in the health and welfare of our society. Vehicle noise, and notably truck noise, is considered a major source of environmental noise. The recent truck strike of February 1974 with its corresponding decrease in truck traffic on interstate highways offered a unique opportunity for correlating truck traffic with environmental noise.

#### **PURPOSE**

The purpose of these measurements was to measure the "environment noise" near Interstate 57 in Illinois both during and after the truck strike in order to, if possible, correlate the decreased truck traffic with the decreased level of environmental noise.

#### SCOPE

Measurements were made of the acoustical distribution of the A-weighted noise level at a rural location along Interstate 57 between Champaign and Rantoul, Illinois, for a continuous period of 14 days. Simultaneous measurements were made of the traffic flow on the two sides of the freeway.

#### **PROCEDURE**

Two B&K Model 166 Environmental Noise Classifiers were used. One was set for the range 45 to 75 dBA, and the other was set for the range 70 to 100 dBA. A single microphone with wind screen on a tripod at an elevation of 1.2 meters above the ground surface (B&K Model 4117) simultaneously fed the

two classifiers. Electric power was brought to the classifiers over a 230-meter extension cord which was run from the nearest structure. The traffic measurement units were the standard unit used by the State of Illinois, Department of Transportation. Both the traffic counters and the classifiers were checked and read at 7:00 a.m. and 10:00 p.m. of each day, including weekends. Calibration was performed on the classifiers during each checking period, using a suitable single frequency calibrator.

#### SITE

The general location of the site is shown in Figure 1. It is approximately midway between Champaign and Rantoul, Illinois on the east side of Interstate 57. The northernmost corner of the State of Illinois truck and snow plow compound was used to house the equipment in a secure area. Figure 2 is a more detailed rendering of the actual site. It should be noted that the area in which the equipment and microphone was placed was a park-like setting and that the closest highway equipment was more than 110 meters from the measurement microphone. The microphone itself was located 20 meters from the center of the nearest line of traffic. Figure 2 also shows the general distances for the interstate highway.

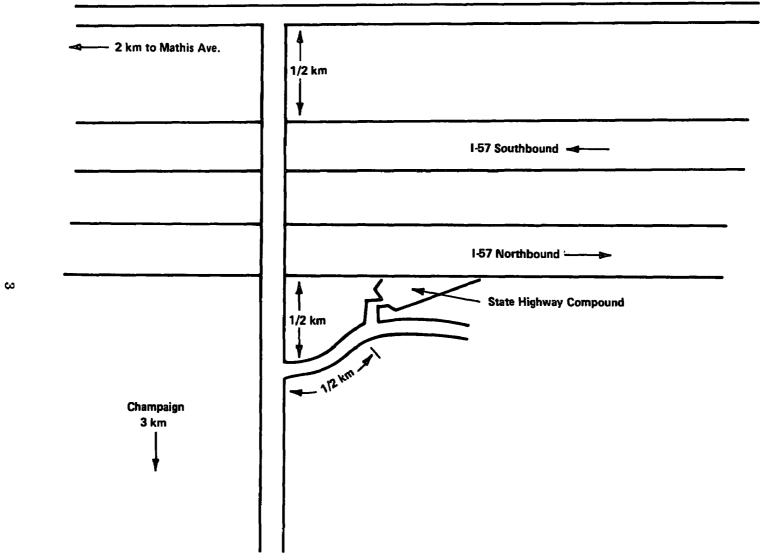


Figure 1. General Site Plan

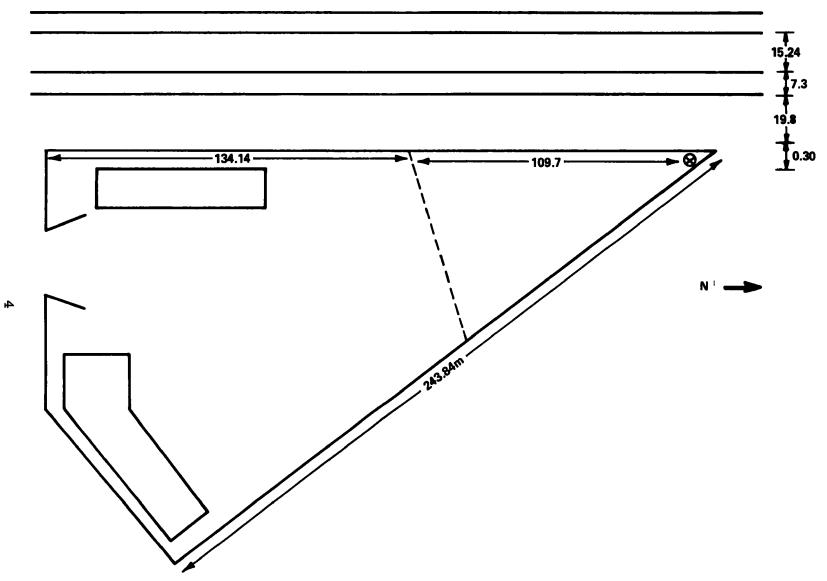


Figure 2. Detailed Site Plan

#### DATA

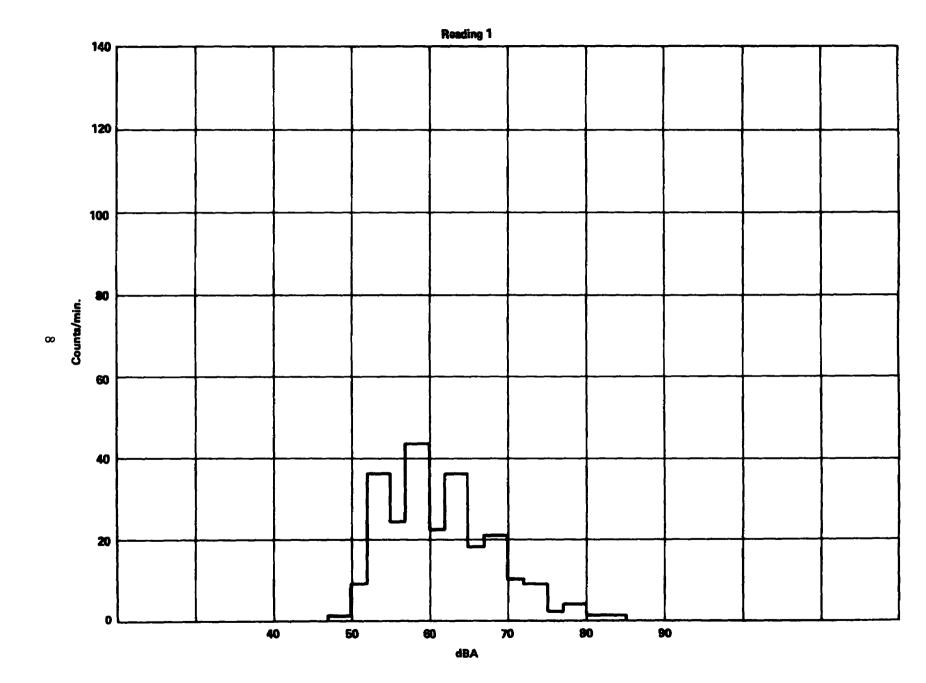
The following is a compilation by days of the raw and reduced date. For each day, the raw data during the daytime period (7 a.m. to 10 p.m.) and the raw data during the nightime period (10 p.m. to 7 a.m.) is given. The traffic count during the day and night and the calculated Leq during the day and night are shown along with Ldn for that day. Following this information for each day and night is a graph of the levels recorded on the statistical distribution analyzers. Due to the weather, traffic counts could not be made during the entire period. Light snow and its associated snow plowing precluded the use of rubber tube sensors across the highway surface during plowing. Thus, traffic count data is available only for a few days shortly after the beginning of the measurement period (as soon as we were able to obtain equipment from the state) and during the end of the measurement period (it snowed during the middle of the measurement period).

# Data Window Legend

#### LEVERETT BOAD VEHICLE MEASUREMENTS

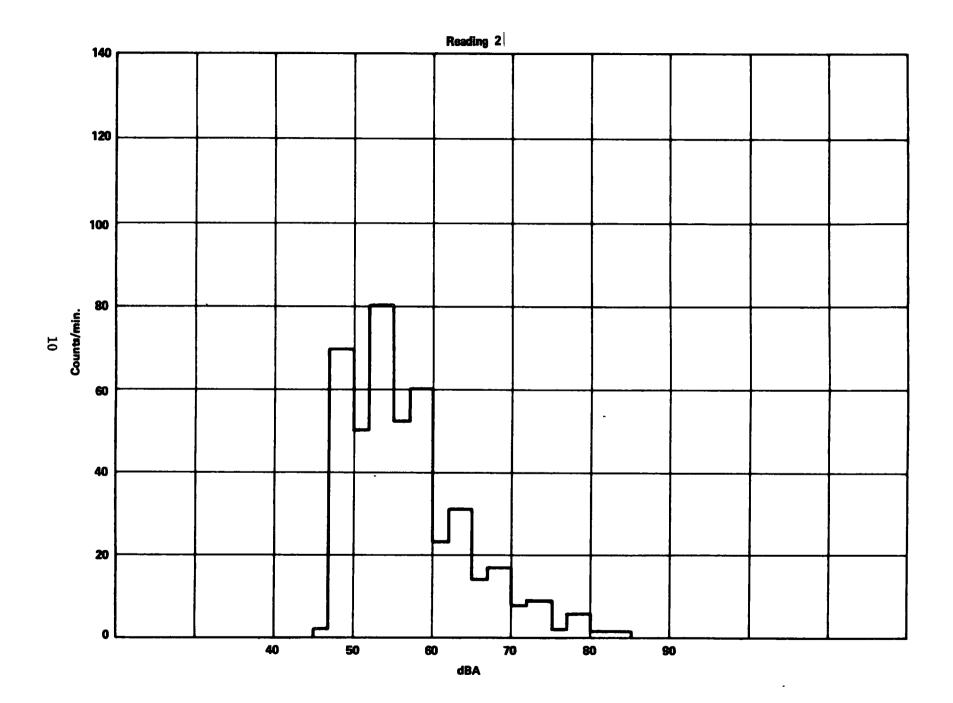
		Test No	Date	T	lm*		
41-							
45-	47- 50	50- 52	52- 55	70- 72	72-	75-	77-
55° 57	57- 60	60-	63.	80 - 82	82- 85	85- 87	81- 90
65- 67	67- 70	70 - 72	72 - 674 8104	90 - 92	92- 95	95- 97	97, and above
45 dBA			mission	TO dBA			minutes
	Wind Di Wind Sp			Raw Vehicle Raw Vehicle			
	Temper	ature		Les			
	Weather	r Condition		L			

		. 1	rest No	•	ate <u>  Fe</u>	<u>▶74</u> ті	me <u>22</u>	<u>05</u>	
0	.0								
0	۵	1.8	8.4	36.0		10.2	8.6	20	4.1
2	4.1	429	22.2	36.13		1.4	1.2	0.3	0.1
r	1,2	21.5	8.7	15.3		0.0	0.0	0.0	0.0
45	dBA	23	2.8	minutes		TO dBA	23	2.8	minutes
		Wind Dir		NE NE		aw Vehicle aw Vehicle		bound	
		Tempen		32		eq			<u>68.60</u>
-		Weather	Conditions	Clear	. x	dn			



# Test No. 2 Date 2 Feb74 Time 0656

	Tempers Weather	iture Conditions		_	eq fn			<u>66.15</u>
	Wind Spe	ed		R	w Yebicle	Count Sou	thbound	11 16
	Wind Dia	rection		R	w Vehicle	Count Nor	thbound	
45 dBA	52	6.3	minutes		70 dbA	52	6.3	minutes
14.2	16.9		19.2	i	0.0	0.1		0.1
52.0	8.03	234	31.6		2.1	1.7	0.2	0.1
2,3	<i>G</i> 3	50.0	80.0		8.4	8.8	2.3	5.6
97.6					<del></del>	<u>.</u>		



Test No. 3 Date 2 Feb 74 Time 2157

12.9			
18.8	77.2	76.0	126.9
81.3	139.5	66.2	111.7
57.7	669	239	37.4
45 dBA	90	1.4	minutes

29.2	21.2	4.2	90
3.2	3.6	0.7	0.3
0.1	0.1	0.0	0.0
70 dBA	90	1.4	minutes

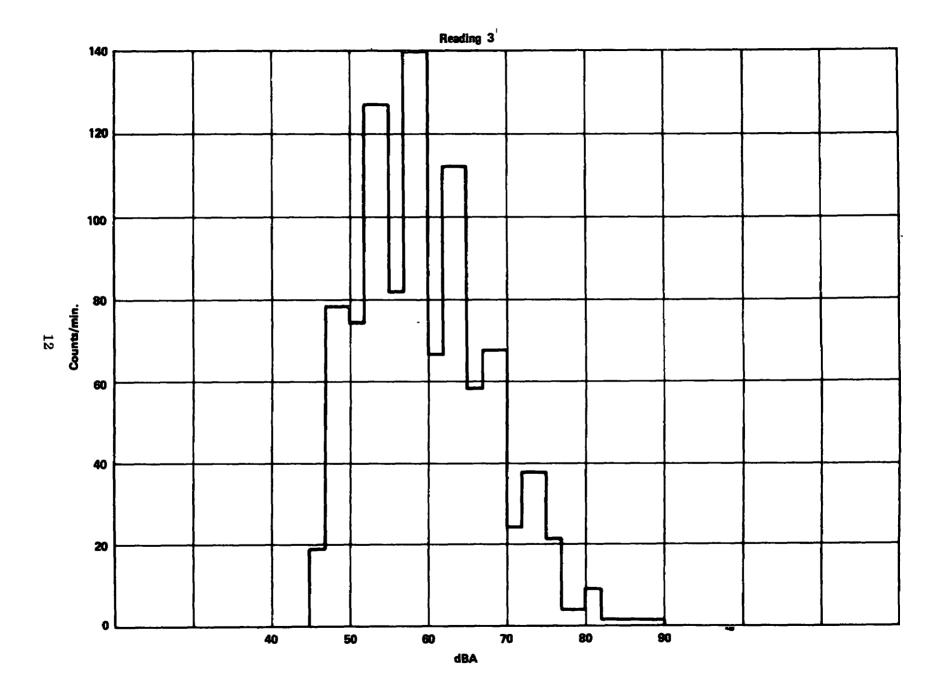
Wind Direction	NE
Wind Speed	3.5
Temperature	31
- Weather Conditions	<u>Clear</u>

Raw Vehicle Count Northbound

Raw Vehicle Count Southbound

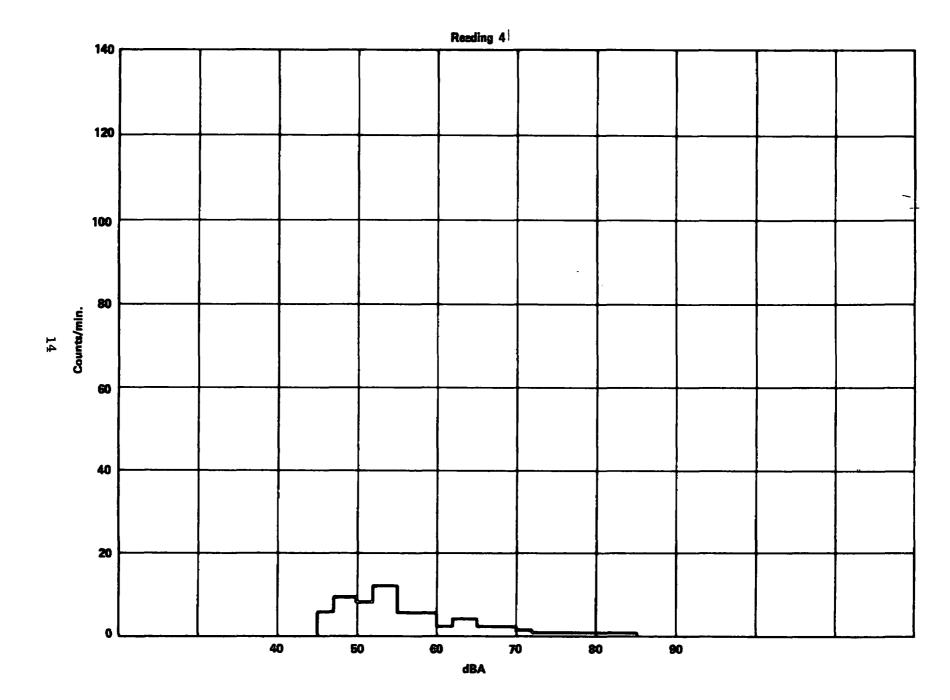
Leq

Lda



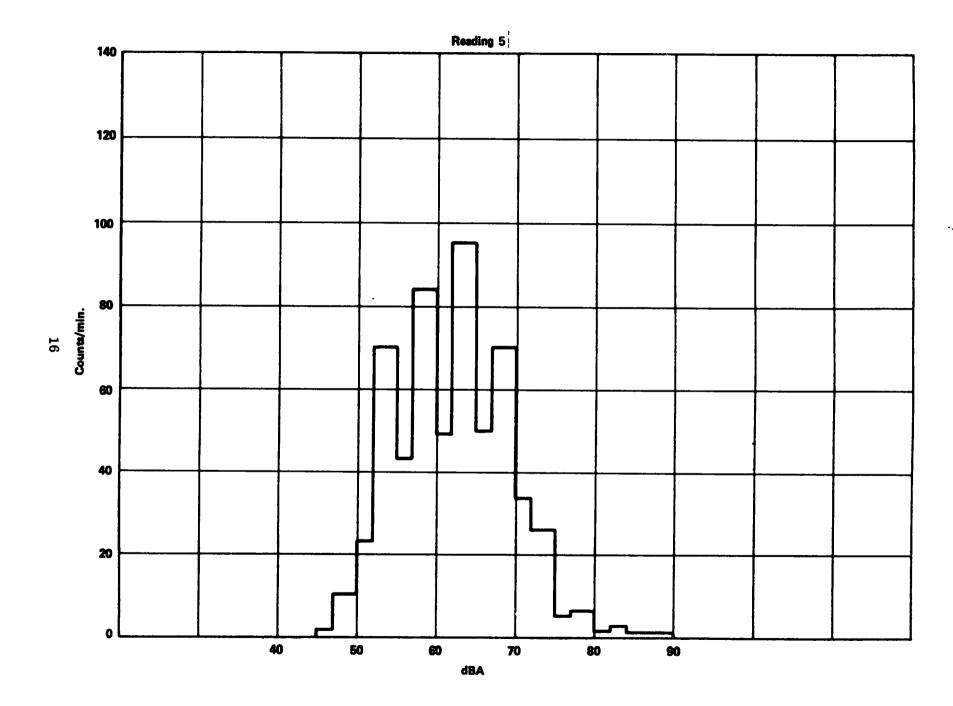
# Test No. 4 Date 3 Feb74 Time 0700

<b></b>	, 1	rest No	<b>I</b> D:	10 <u>3 F</u>	Ti	ime <u>O ((</u>	<u> </u>	
0.6								
5.8	9.0	8.0	11.9		1.0	0.8	0.3	0.7
4.6	5.1	2.3	3.8		0.2	02	0-1	0.0
2.0	2.3	1.1	1.9		0.0	٥٥	0.0	0.0
45 dBA	51	8.8	minutes	•	70 dBA	59	8.8	coloutes .
	Wind Di	• • • • • • • • • • • • • • • • • • • •				: Count Nor		<del></del>
	Temper	•			ed ed			Υ
	Weather	Conditions	·		eu.			



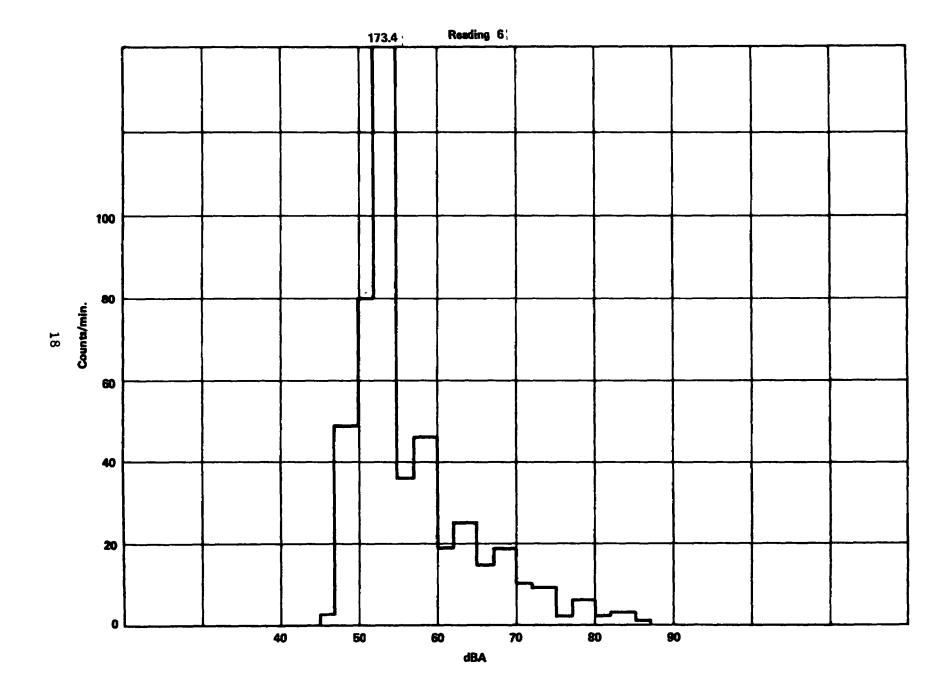
# Test No. 5 Date 3 Fe b 74 Time 2154

	. 1	rest No. 🗻	<u> </u>	11.3 Fe	974 TI	me <u>21.</u>	27	
0.0								
1.8	10.6	23.0	<b>6</b> 9.5		34.3	26.4	4.9	7.3
43.1	84.3	49.2	95.6		1.9	23	0.6	0.3
50.1	69.4	29.5	39.5		0.0	0.0	0, 1	0.0
45 dBA	56	5.3	minutes	•	ABb OT	56	5.3	minutes
	Wind Dis		8-10 NNW		rw Vehicle rw Vehicle	••••		
	Temper	ature Conditions	<u> </u>		rq. dn			<u>68.85</u> 74.42



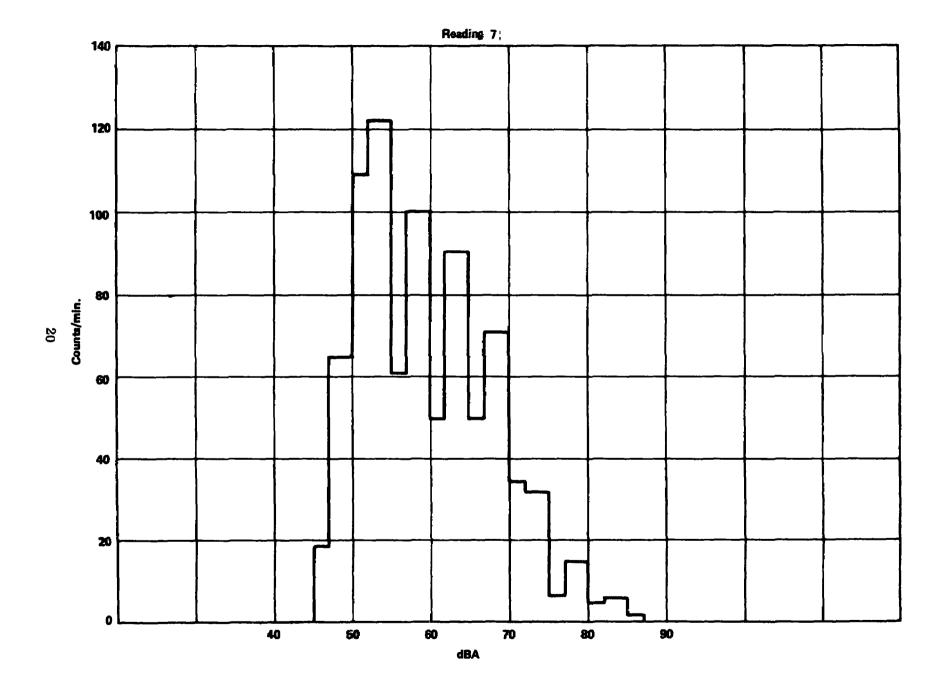
Test No. 6 Bate 4 Feb 74 Time 0656

,	. 1	iest No	Date	<u>4H</u>	5/4 T	Ime <u>06</u>	26	
0.0								
3.3	48.6	820	1734		10.1	9.7	2.5	5.5
36.2	46.7	19.0	35.3		2.5	3.1	1.0	0.5
14.7	19.2	10.0	23.8		aı	0.0	0.0	0.1
46 dBA	511	. 4	minutes		70 dBA	51	1.4	minutes
	Wind Dis Wind Spe Tempera Weather	æd	14 8-11 14 Clear	R	aw Vehicle aw Vehicle eq			67.85 74.4



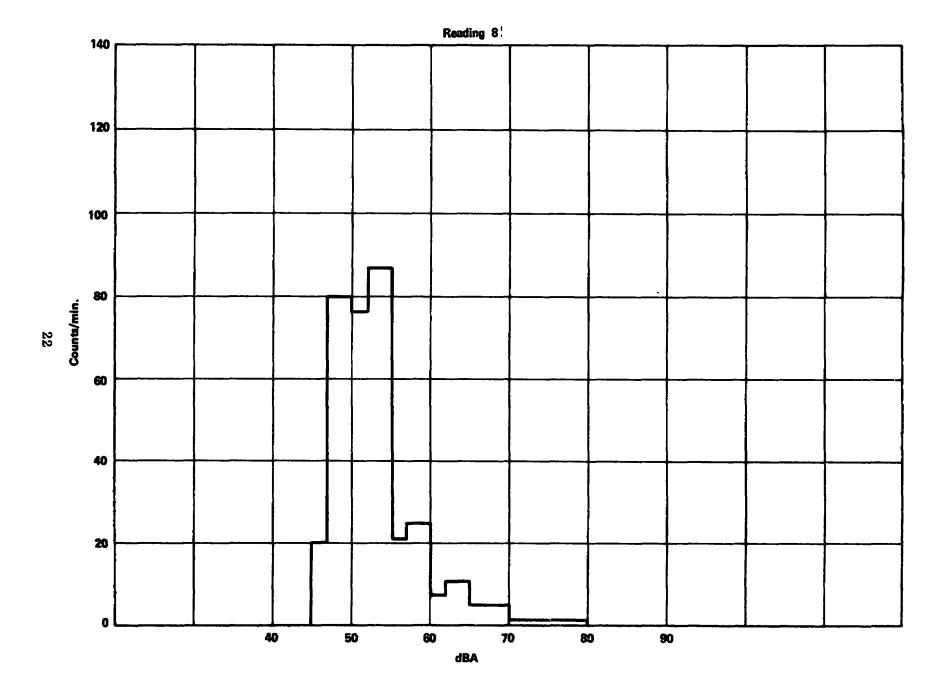
Test No. 7 Date 4 Feb74 Time 2152

<u></u>	. T	est No	B	ate	TI	me		
18.1								
18.7	64.7	109.0	121.9		34.5	31.7	6.8	15.0
60.7	100.5	49.4	95.2		5.4	64	2.0	0.7
49.7	71.2	31.6	62.9		0.0	0.0	0.1	0.1
45 dBA	85	8.8	minutes	4	70 dba	85	8.8	misutes
	Wind Dir Wind Spe Tempore Weather	eed	ESE 68 22 Clear	. R	aw Vehicle aw Vehicle eq da			69.33 72.36

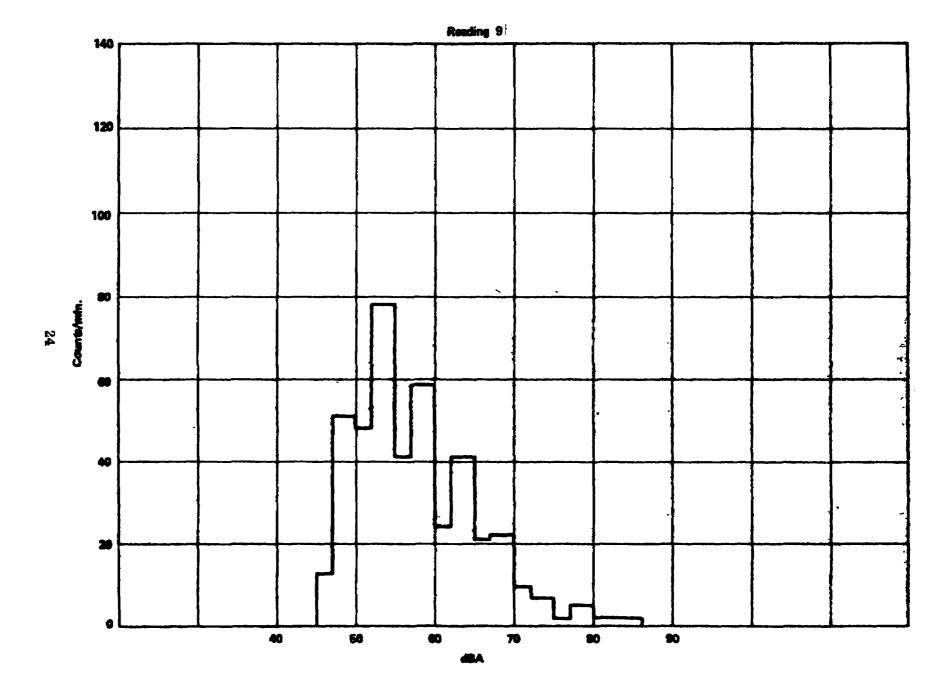


Test No. 8 Date 5Feb 74 Time 0700

	1	est No	<u> </u>	ate 5 Pel	2/4 TI	<u>07</u>		
0.9								
20.1	79.9	76.0	87.6		2.0	1.9	0.6	2.8
20.7	244	7.7	11.4		1.5	1.2	03	0.1
4.9	4.9	2.2	7.3		0.0	0.1	0.1	00
45 dBA	34	9.3	minutes	•	70 dBA	34	9.3	minules
	Wind Di	rection	ESE	-	aw Vehicle	Count No	rthbound	
	Wind Sp Temper		12-16 21	_	nw Yehicla sa	Count Sou	thbound	66.90
			Clear		qn eđ			7230



	•	rest Xo, _	<b>?_</b> ¤	4 <u>5R</u>	<i>▶7</i> ∳ ⊤	me <u>21</u>	<u>56</u>			
8.2										
12.8	50.7	48.0	77.7		10.2	75	1.6	5.0		
41.4	58.7	24./	40.9		2.3	2.2	0.5	0.1		
21.2	22.5	8.3	17.3		0.1	0.0	0.0	٥٥		
45 dBA	15 dBA 433.8 minutes				70 dBA 433.8 minutes					
	Wind Dis	ed iture	<u>ESE</u> 7-9 30	R L	sw Vehicle sw Vehiclo			67.28		
	Weather Conditions Char			L	L <sub>do</sub>					



Test No. 10 Data 6 Feb 74 Time 0659

150.1			
505	830	54.8	62.0
32.9	42.2	15.3	25.6
11.8	13.1	5.3	15.9
45 dBA	53	2.5	minutes

0.1	5.4	1.4	54
2.5	2.4	0.4	0.3
0.1	0.0	0.0	0.0
TO dBA	minutes		

Wind Speed
Temperature
Reise

Raw Vehicle Count Northbound

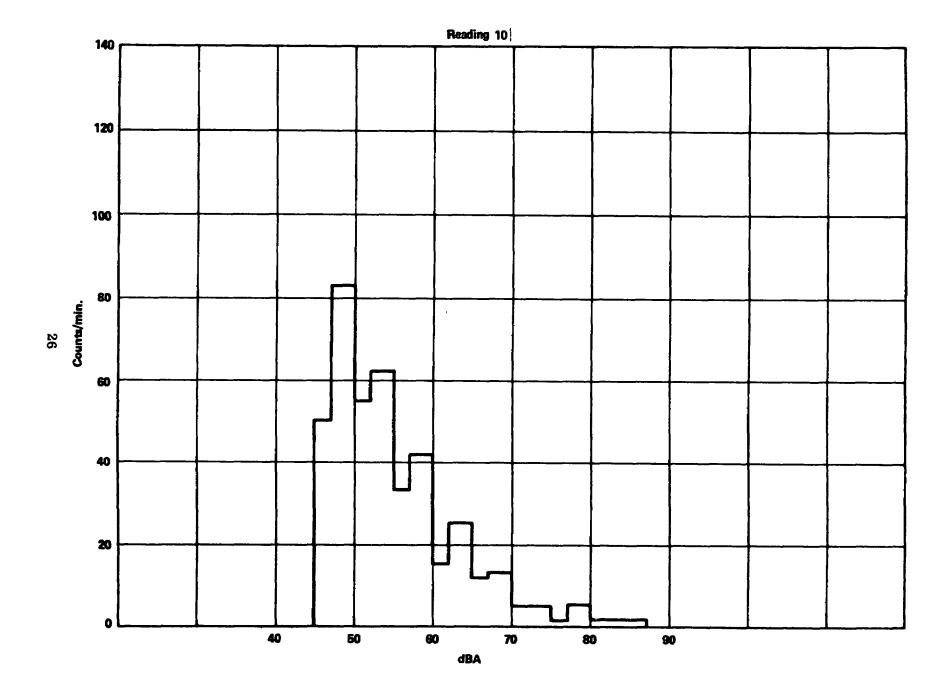
Raw Vehicle Count Southbound

Leq

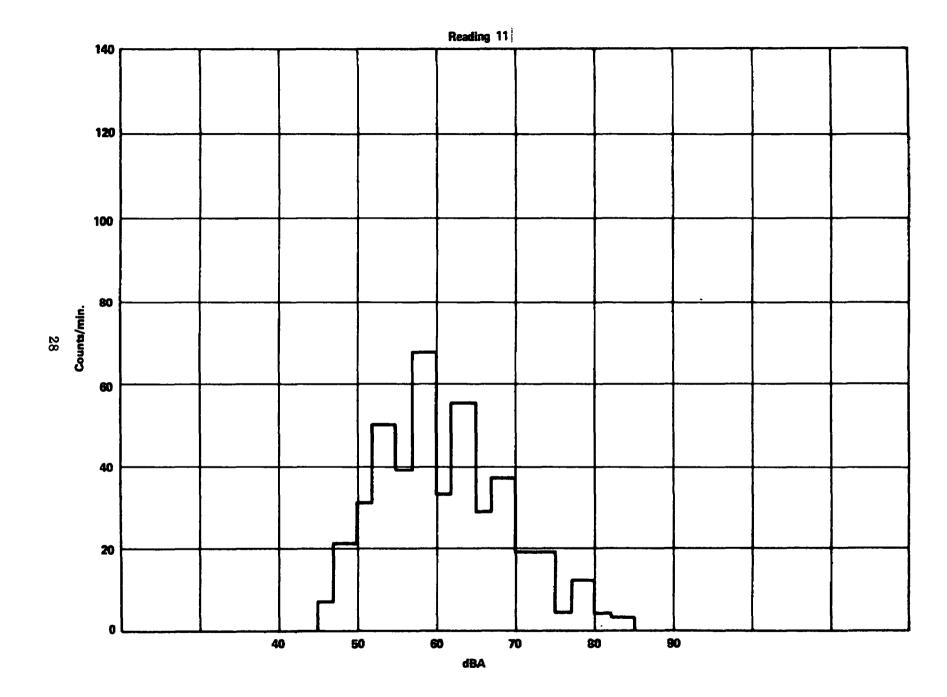
584

557

65-30

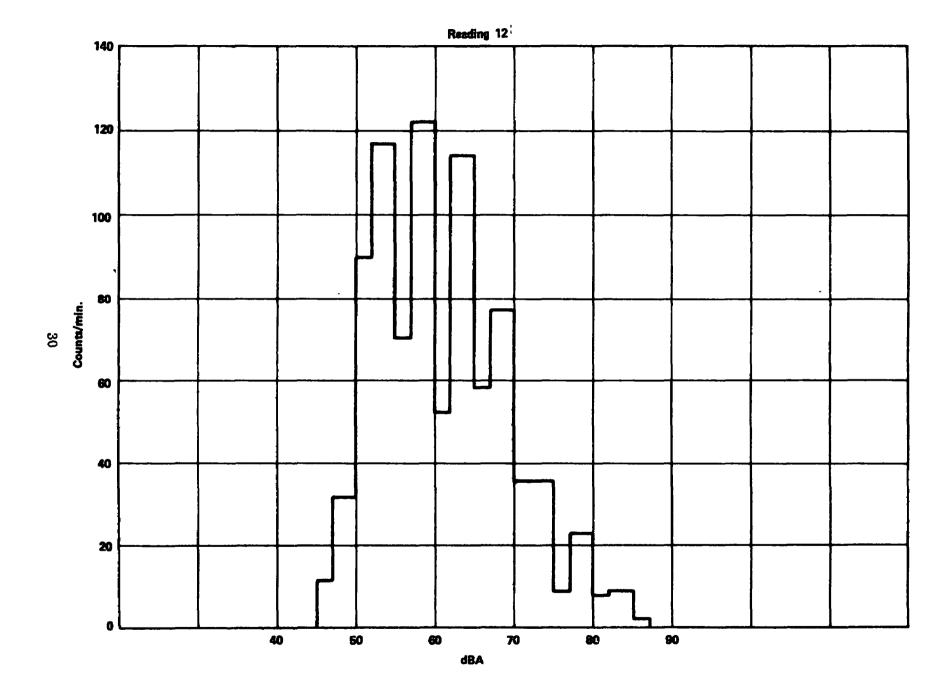


	1	rest No	/ Dat	.7 Fel	74 T	/3/	0	
1.1						÷		
6.5	21.3	50.0	29.3		19.9	19.1	4.4	11.6
39.3	67.4	33.1	53.4		4.0	3.7	1.1	0.5
287	37.3	17.0	38.4		0.1	0.1	0.1	0.0
45 dBA	43	31.1	minutes	•	70 dBA	43	1.1	minutes
	Wind Direction NNE Wind Speed 6-7 Temperature 18 Weather Conditions Freezers		Ra L	Raw Vehicle Count Northbound  Raw Vehicle Count Southbound  Leq				
			-4-0	L <sub>dn</sub> —				



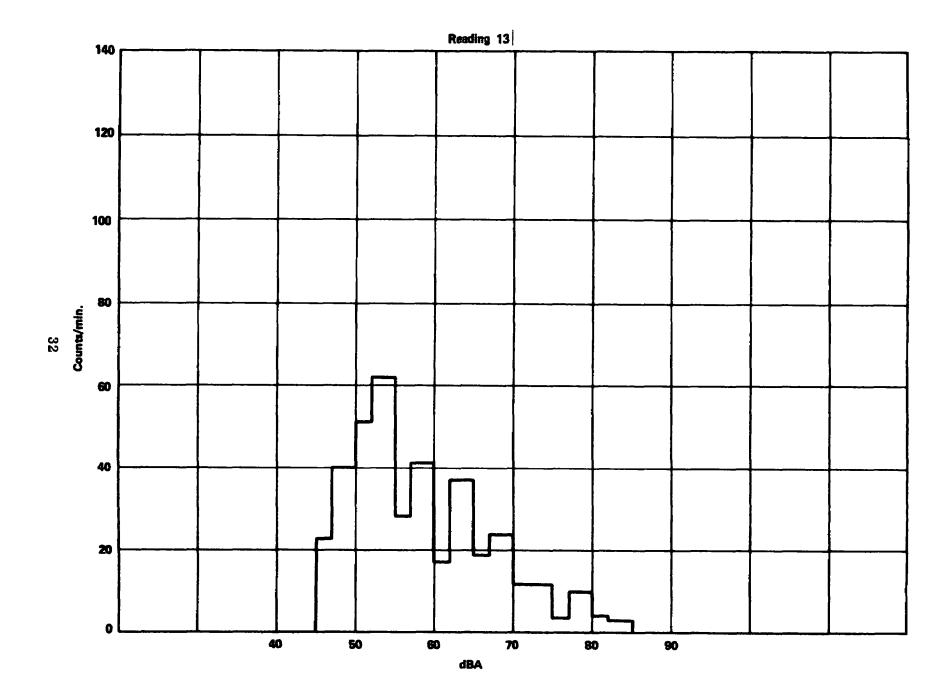
Test No. 12 Date 7 Feb 74 Time 2220

		rest KoL	<u> </u>	au	T	Ime			
25.8									
11.5	31.6	130.0	77.0		36.7	36.6	9.3	23.8	
70.3	121.6	52.2	114.7		8.4	90	2.2	0.9	
57.7	764	35.1	87.1		0.1	0./	0.1	0.0	
48 dBA	89	4./	minutes	•	70 dBA	89	4./	minutes	-
	Wind Direction Wind Speed Temperature Weather Conditions  ME 4-8 78 Clear			R	Raw Vehicle Count Northbound  Raw Vehicle Count Southbound  Leq Ldn				



# Test No. 13 Date 8 Fe 574 Time 0727

152.6  22.7 39.6 51.2 62.0  11.9 11.8 3.4 9.6  28.4 41.3 17.3 37.0  18.5 24.2 11.3 31.1  0.0 0.0 0.1 0.0  45 4BA 538.9 salautes  70 4BA 538.9 minutes		Wind Di	rection	NNE	, R	aw Vehicle	Count No:	thbound	
22.7     39.6     51.2     62.0     11.9     11.8     3.4     9.6       28.4     41.3     17.3     37.0     3.9     3.1     0.6     0.3	45 dra	53	8.9	minutes	•	70 dba	53	38.9	minutes
22.7 39.6 51.2 62.0 11.9 11.8 3.4 9.6	18.5	24.2	11.3	31.1		0.0	0.0	0.1	0.0
<del></del>	284	41.3	17.3	37.0		3.9	3/	0.6	0.3
152.6	22.7	39.6	51.2	62.0		11.9	11.8	3.4	9.6
	152.6								



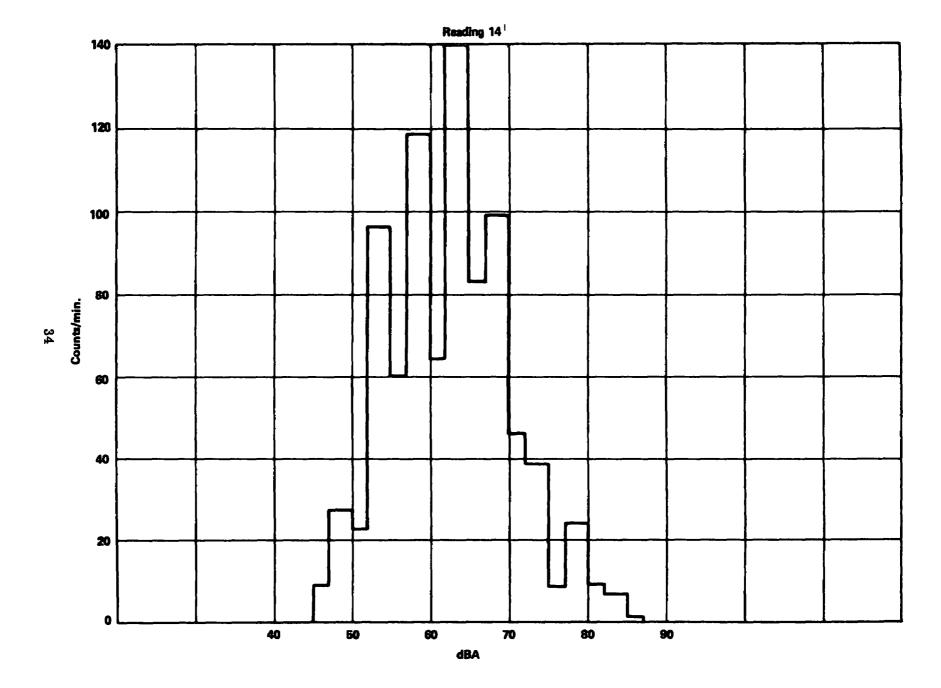
Test No. 14 Date 8Feb 74 Time 2147

45 dBA	85	2.7	minutes
826	98.1	40.1	83.1
59.8	117-8	64.1	140.8
8.5	27.3	22./	96.0
5.8			

45.8	384	9.2	23.9
9.0	7.3	1,2	0.6
0.0	0.0	0.1	0.1
70 dBA	minutes		

Wind Direction Weather Conditions Clear

Raw Vehicle Count Southbound



Test No. 15 Date 9 Feb 74 Time 0707

154.4			
21.6	41.3	36.0	93.8
33.6	45.4	0.81	41.2
18.0	20.7	8.0	21.5
45 dBA	55	5.4	minutes

8.7	9.3	2.4	6.6		
2.3	1.9	0.5	03		
0.1	0.0	0.0	0.1		
70 dBA 555:4 minutes					

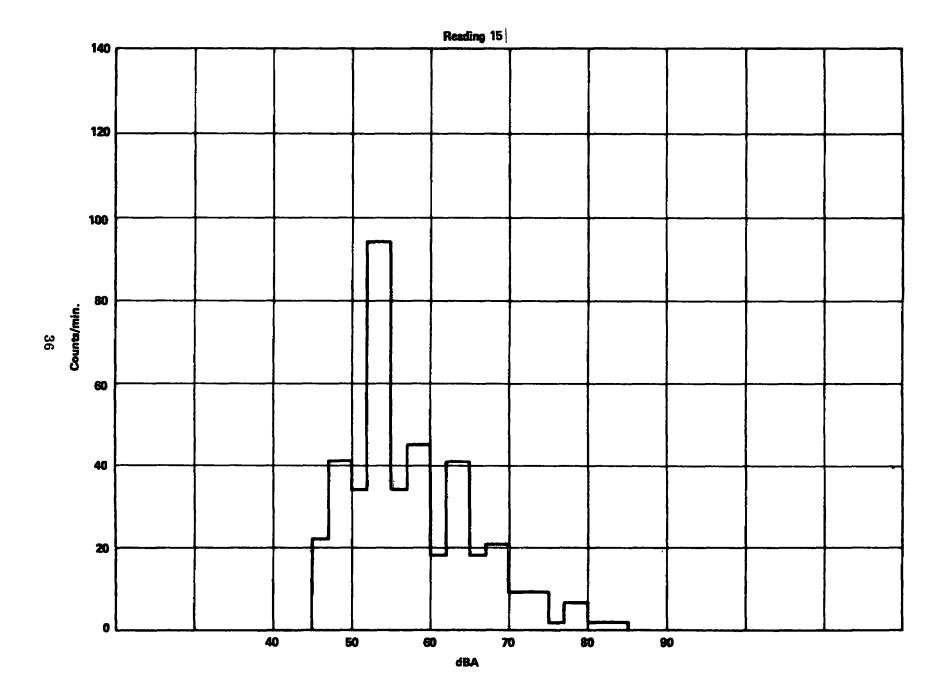
Wind Direction	٥
Wind Speed	0
Temperature	22
Weether Conditions	Clear

Raw Vehicle Count Northbound

Raw Vehicle Count Southbound

Leq

66.59 73.75



### Test No. 16 Date 9Feb 74 Time 2154

<i>5</i> 3.0			
23./	62.8	86.8	132.0
81.6	119.3	51.8	103.8
53.9	<i>55.</i> 0	19.5	35.6
45 dBA	88	1.6	minutes

22.5	17.7	3.7	9.5		
3.7	3.4	0.6	0.3		
0.1	0.0	0.0	0.0		
70 dBA	10 dea 881.6				

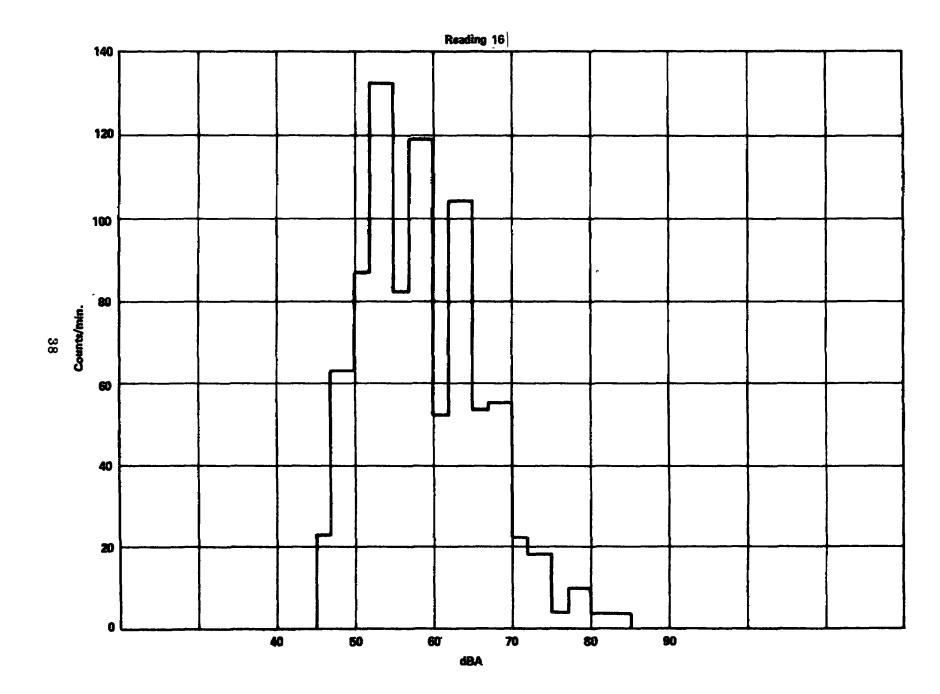
Wind Direction

Wind Speed

Temporature

Weather Conditions Ciral

Rew Vehicle Count Northbound Rew Vehicle Count Southbound  $\mathbf{L}_{\mathbf{eq}}$ 



### Test No. 17 Date 10Feb74 Time 0658

168.7			
348	52.9	50.0	97.6
25.7	343	12.5	25.4
10.9	11.7	3.4	8.2
45 dBA	53	6.7	minutes

10 dBA 536.7 minu					
0.0	0.0	0./	0.0		
1.2	1.1	0.2	0.1		
4.0	3.0	0.9	2.2		

Wind Direction

Wind Speed

Temperature

Weather Conditions

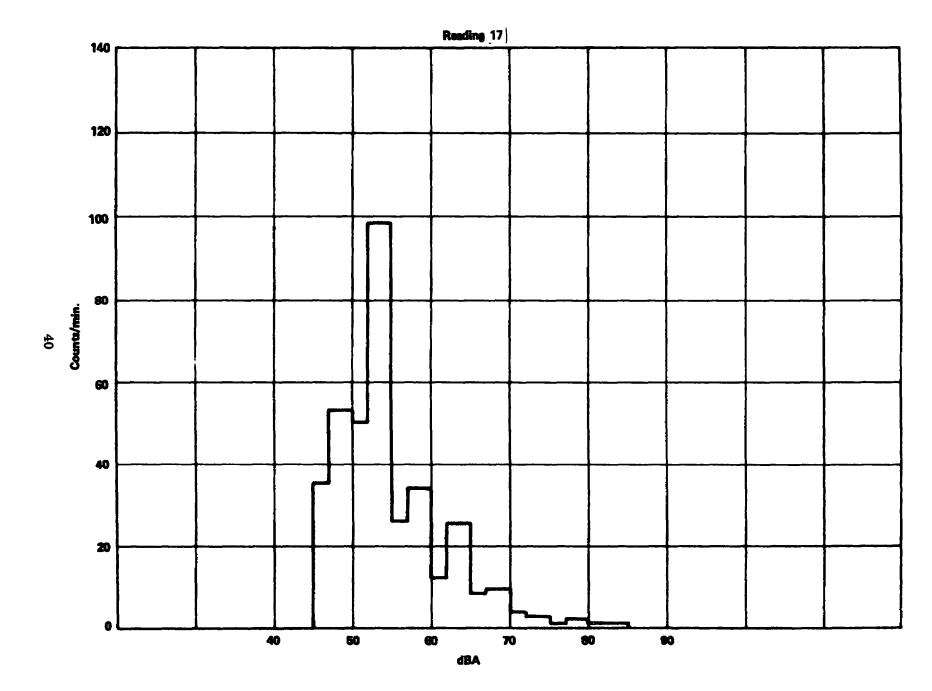
SW

10-12

28

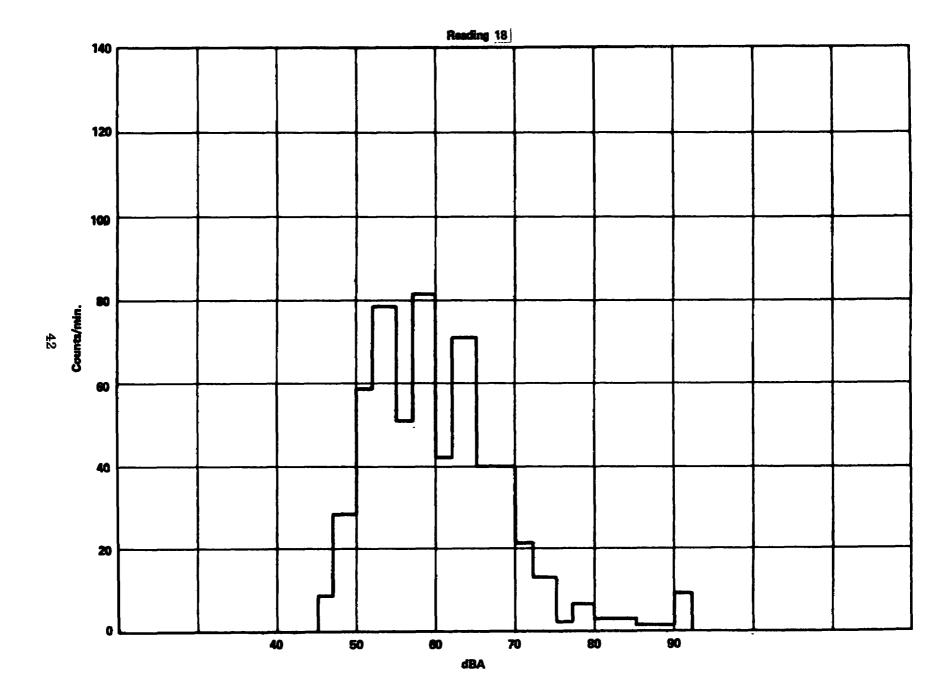
Ckar

Raw Vehicle Count Northbound
Raw Vehicle Count Southbound
Leq
L. 7/13



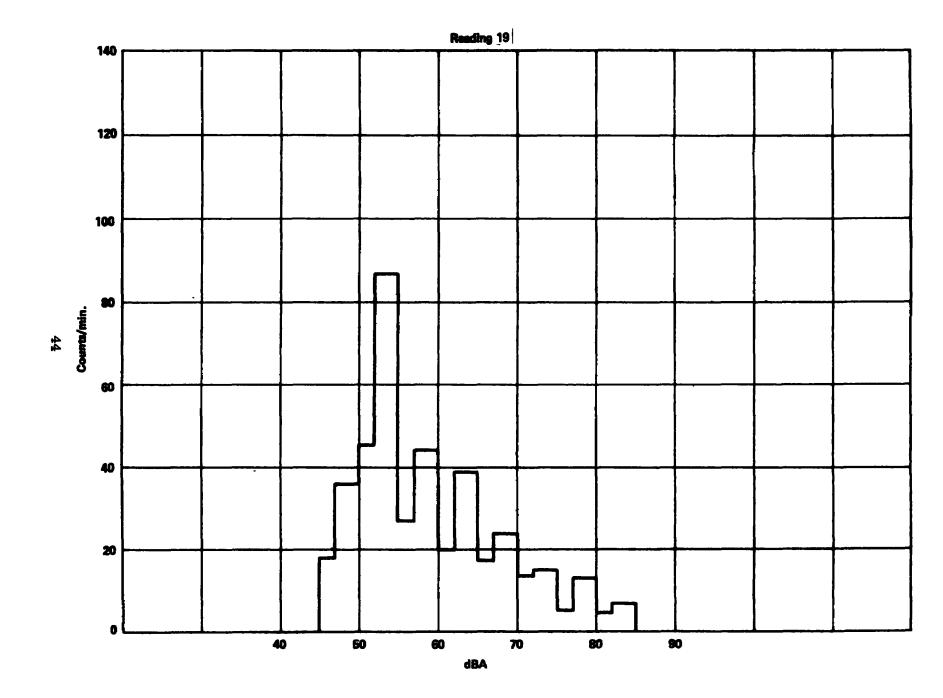
Test No. 18 Date 10 Fb 74 Time 7.270

	, 1	rest No	<u>A</u> ====================================	ate De	6 74 T	ime <u>77.7.4</u>	45	
0.0								
10.9	28.5	58.1	78.0		184	12.9	2.5	6.6
50.9	80.6	41.6	70.6		26	26	<b>୍</b> ଟି	J. 45
40.0	39.9	21.3	24.6		ð.l	<i>9.</i> 0	n. 4	A. O
45 dBA	53	5.7	minutes		70 dqa	463	5.7	mintes
	Wind Dix Wind Spe _Tempera Weather	ed	NNW 10-12 16 Clear	E.	aw Vohiele no Vohiele eg in			15.95 78.64



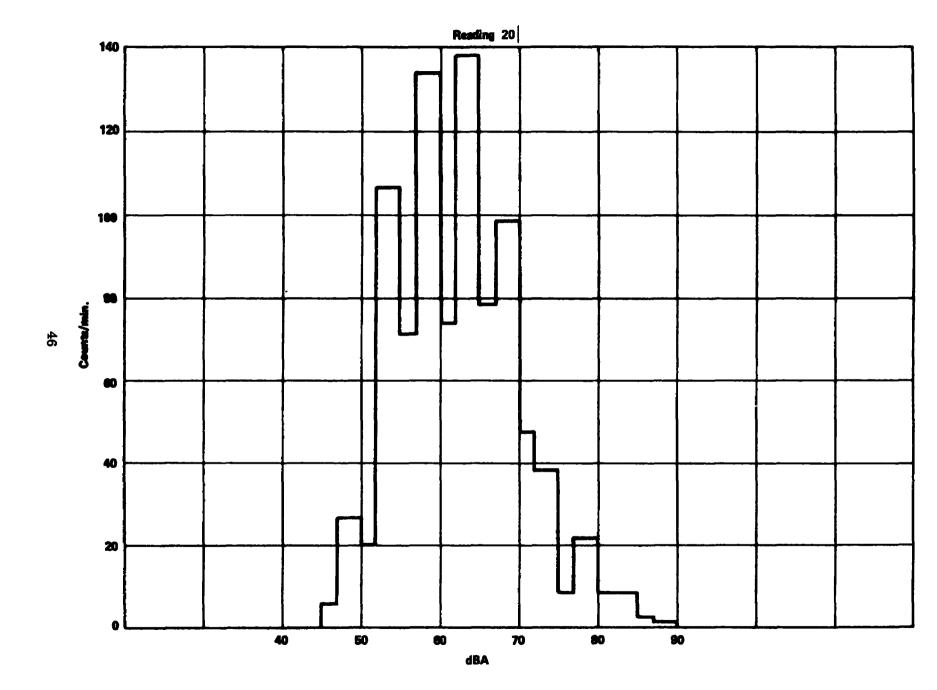
Test Na. 19 Date 11Rb74 Time 0707

	. 1	rest No	Z Date	. <u>///</u>	<i>9/7</i> 7	ime <u>U</u>	<u> </u>	
71.3								
18.0	362	54.7	85.0		12.6	15./	4.9	12.7
26.7	43.8	/8.2	386		<i>5</i> .3	6.8	2.0	1.0
17.4	24.4	13.8	46.6		0.6	0.1	0.2	0.0
45 dBA	50	5.6	mioutes	•	TO dBA	50	5.6	entautes
	Wind Diz Wind Spe Tempera	ed	0 0 15 Clear		A Aspicie	Count Noz		1/96 1200 71.25 78.56



# Test No. 20 Date // Feb 74 Time 2147

78.5 45 dBA		42. <sub>1</sub>	79.6 minutes	O.O	O.J	0.1 7. 1	.O.O minutes
709	132.9	73./	/37/	8.1	8.2	1.9	0.7
5.2	264	20.0	10L5	47.0	37.6	8.4	21.4
0.0		<del>,</del>	<del>, , , , ,</del> ,				



Test No. 21 Date 13 Feb 74 Time 0720

45 dBA	55	4.2	minutes
36.5	53.2	29./	71.8
37.0	66.4	33.7	67.9
100	340	24.2	600
25.4			

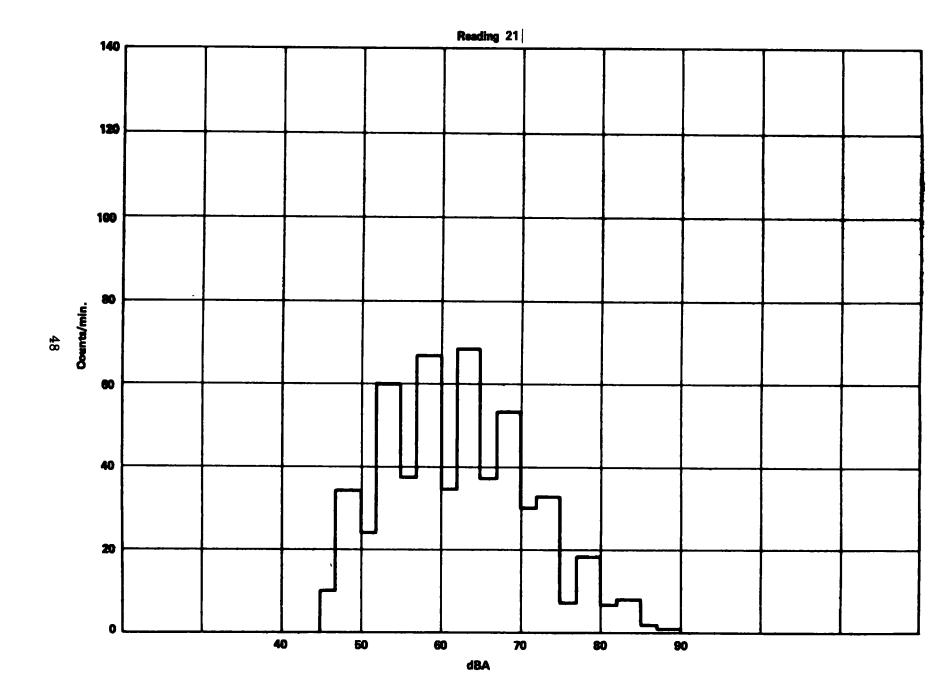
29.6	325	7.2	18.3
6.6	8.3	2.4	1.3
0.0	0.1	0./	0.1
TO dBA	mbutes		

Wind Direction	5
Wind Speed	4-5
Temperature	31
Weather Conditions	Clear

Raw Vehicle Count Northbound
Raw Vehicle Count Southbound

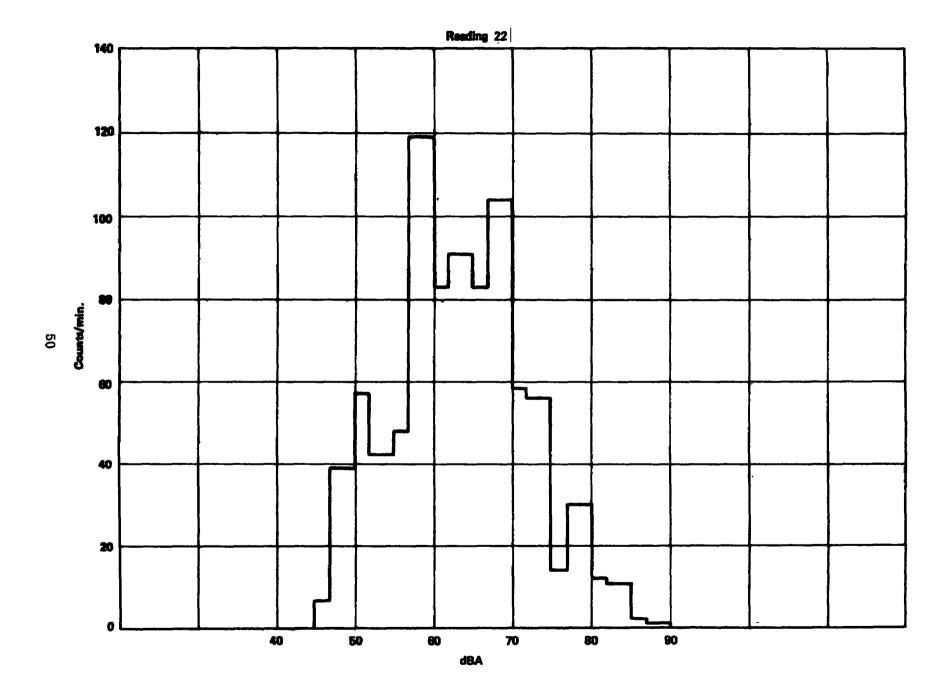
1365 1284 71.94

L



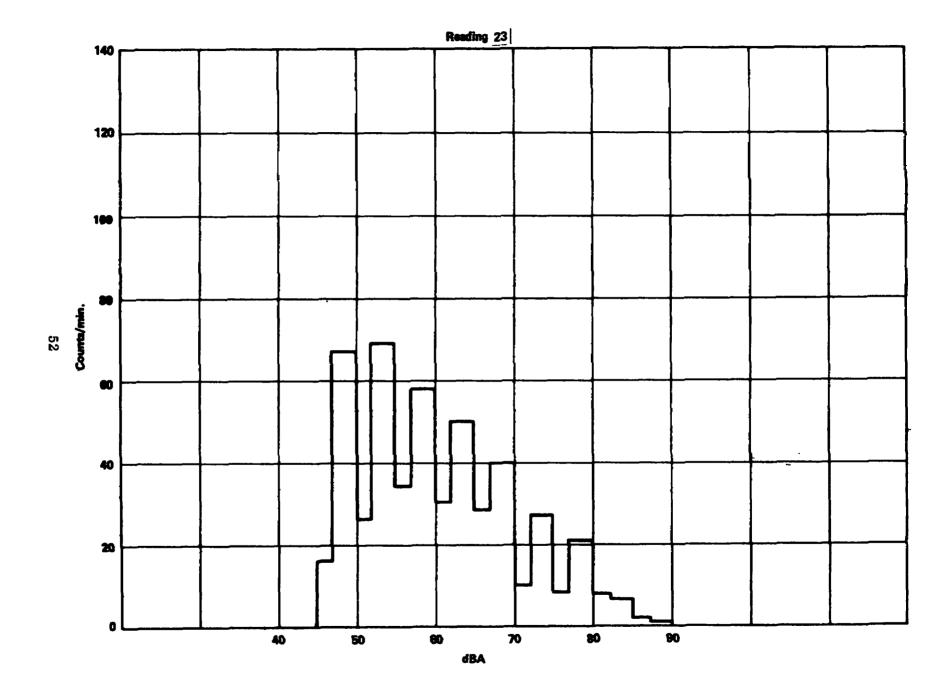
### Test No. 22 Date 13/6674 Time 2/3Z

	Wind Dis		8-10 31	Raw Vehicle Raw Vehicle			<u>4219</u> 4697 7172
44 @	84	6./	minutes	TO dba	84	6.1	misules
<b>43.4</b>	103.8	58.5	1042	0.1	01	0.1	0.1
47.6	119.2	82.6	91.2	12.3	11.2	2.0	1.1
7.5	39.1	547	42.5	586	561	13.9	302
00			····			,	



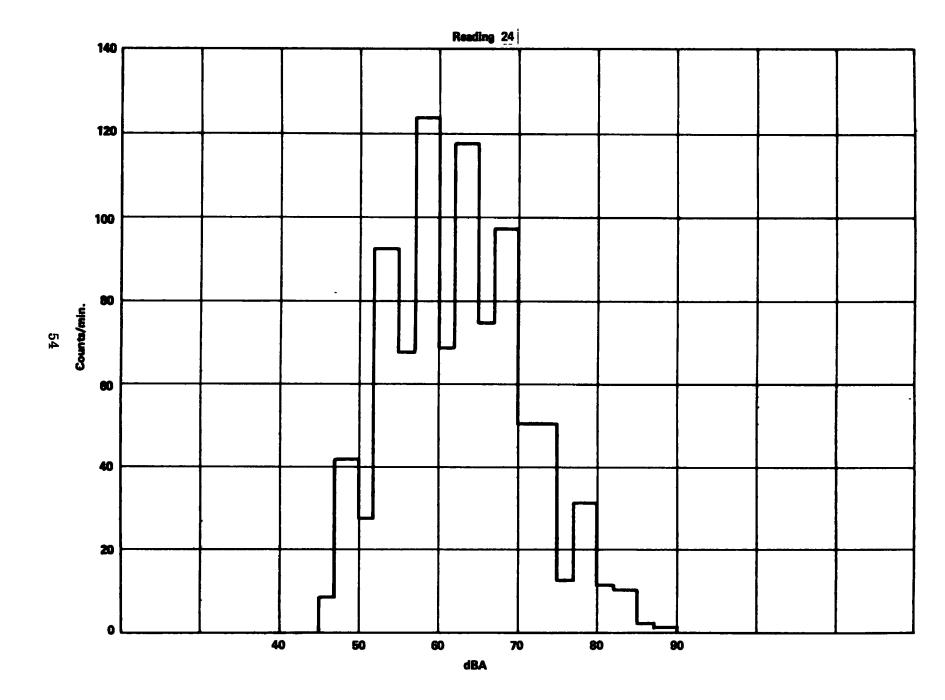
# Test No. 23 Date MR674 Time 0715

45 dba	Wind Dir		NNE.	70 dBA Raw Vehicle Raw Vehicle		thbound	1451 1409 71.33
27.9			68-5	0.2	0.1	ao	0.1
34.1	58.2	303	493	8.5	7.5	1.6	09
25.9	66.7	15.5	724	101	26.9	7.5	20.9
50.9							



# Test Ko. 24 Date 14 Fb74 Time 220/

	Wind Dis Wind Spe Tempera	ed Jure	NNE 6-10 27 Clear	Raw Vehicle Raw Vehicle L <sub>eq</sub> L <sub>dh</sub>		hbound	4547 4851 71.04 77.23
45 dBA	87	8.3	minutes	70 dBA		8.3	minutes
743	968	502	107.6	0.7	0.1	0.0	0.0
66.6	123.1	68.4	1121	11.4	9.8	1.6	0.8
8.5	40.7	25.5	920	48.8	50.0	11.6	30.7
0.0							



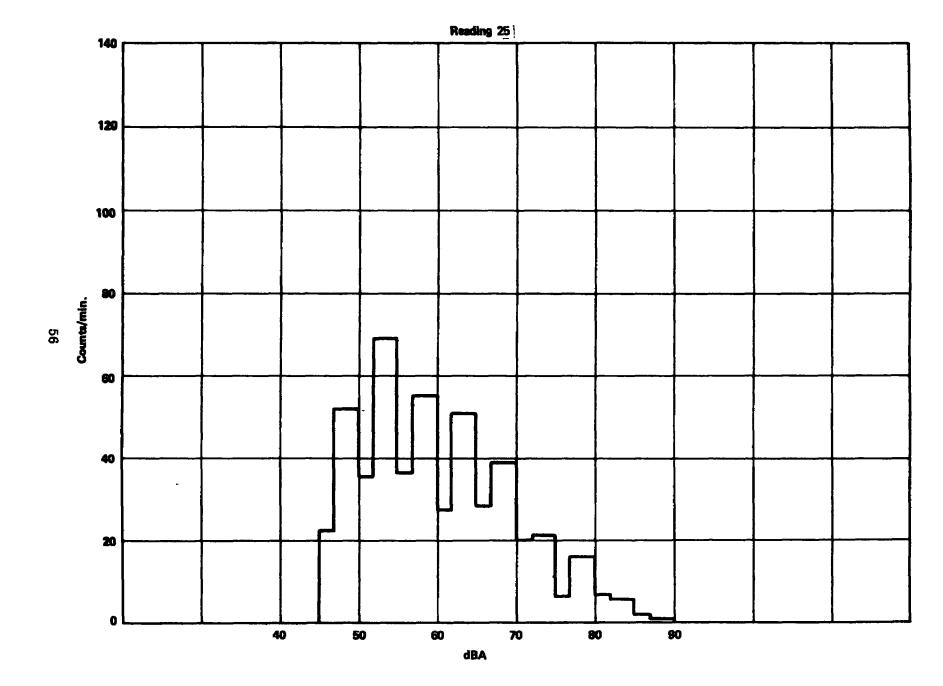
Test No. 25 Date 15/26/19 Time 07/4

58.2			
22.0	52.0	35.2	65.0
36.2	55.I	27.0	509
29.2	38.8	20.3	548
41 db4	54	7.7	minutes

20-2	21.0	5.8	16.3
7.0	6.4	1.2	0.8
0.2	0.1	0.0	0./
70 dBA	54	7.7	minutes

Wind Direction	NNE
Wind Speed	3-5
Temperature	29
March G. Jul.	. Clear

Raw Vehicle Count Northbound
Raw Vehicle Count Southbound
L

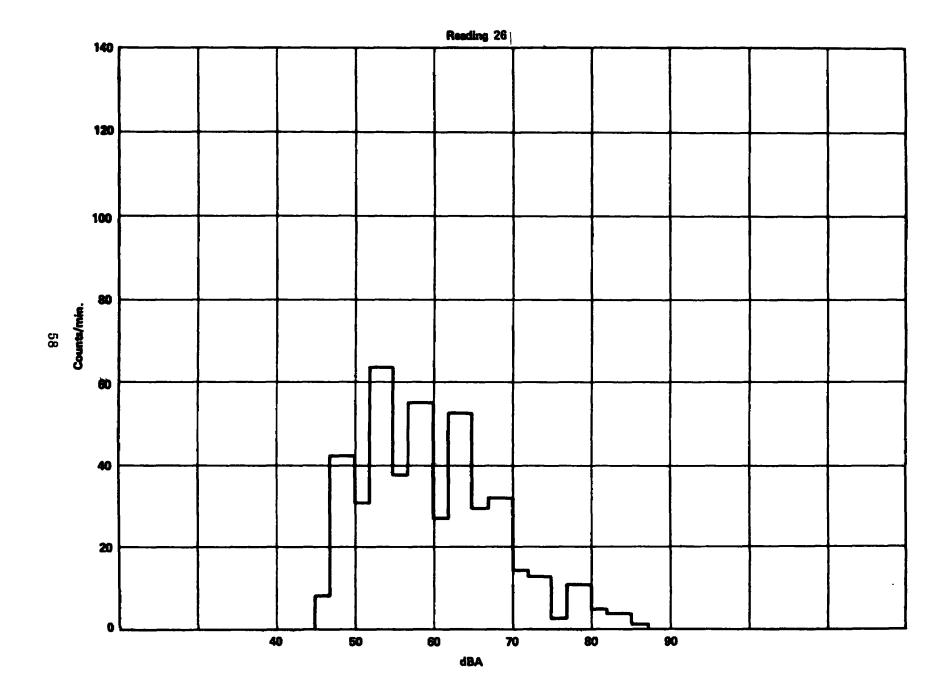


Test No. 26 Date 15 Feb 74 Time 1415

•	7	AN 140'		W. <u>- 1-</u>	
0.3					
7.9	41.9	30.0	63.0		14
37.7	547	27.4	51.7		5.:
29.2	31.6	12.3	35.0		0.
45 48A	42	5.1	minutes	•	<b>70</b> d
	Wied Dis	rection		R	aw Veh
	Wast Spe	eed		R	aw Yeb

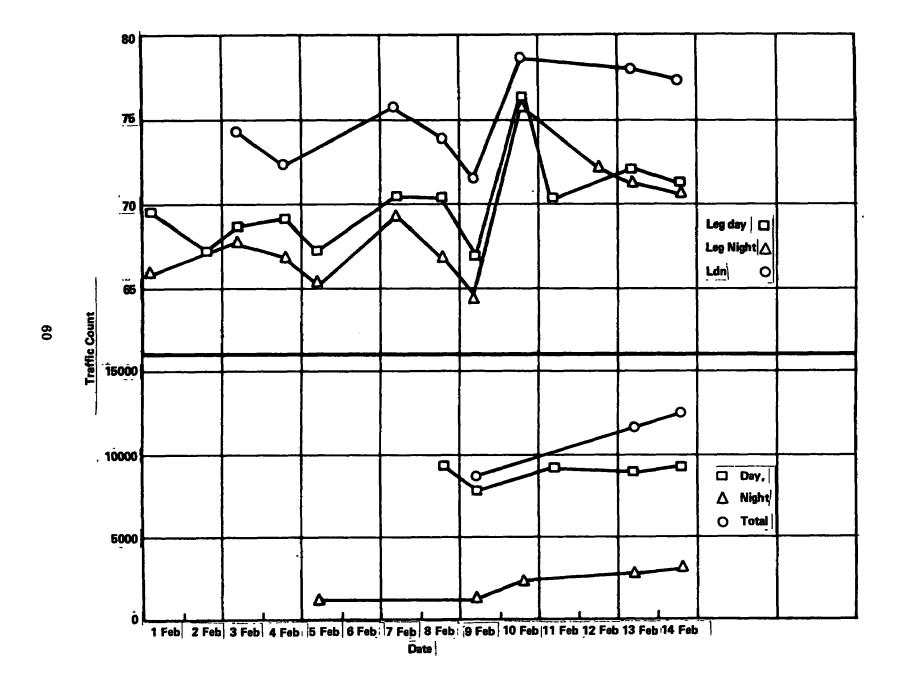
141	12.6	3.4	11.3
5.2	3.8	0.6	05
0.0	0.0	0.0	0.0
70 dBA	42	5.1	m inutes

Wind Direction	 Raw Vehicle Count Northbound	
Wind Speed	 Raw Vehicle Count Southbound	
Temperature	 Leq	<u>69.7</u>
Weather Conditions	 L.	



#### RESULTS

The results are shown on the following graph and corresponding chart. By dates, the  $L_{eq}$  per day and night and the  $L_{dn}$  are plotted along with the traffic measured in the near lane by day, by night, and total traffic. The raw data traffic measurements show that the flow is more or less equal in the two directions, so the total traffic, including the far lanes, can be considered double the traffic flow information given in the graph and chart.



Date	Traffic Flow (Day)	Traffic Flow (Night)	L <sub>eq</sub> (Day)	Leq (Night)	L <sub>dn</sub>
l Feb			68.69	63, 15	
2 Feb			67.30		
3 Feb			68.85	67.85	74.42
4 Feb			69.33	66.90	72.36
5 Feb		1266	67.28	65.30	
6 Feb					
7 Feb			70.43	68.34	75.64
8 Feb	9467	<u> </u>	70.26	66.59	73,75
9 Feb	7848	1079	66.91	64.51	71,35
10 Feb		2396	75.96	71,25	78.54
11 Feb	9285		70.37		
12 Feb			ĺ	71.94	
13 Feb	8911	2860	71.72	71.33	77.80
14 Feb	9398	3108	71.04	70.78	77.23

Summary Results of Traffic Flow and Noise Level

	1. Report No. 550/9-74-010	2.	3.	Recipient's Accession No.		
4. Title and Subtitle Environmental Noise Measurements on Interstate 57 During and After Truck Strike				Report Date June 1974		
baring and arcer	Truck Strike		6.			
7. Author(s) P.D. Schomer ar	d B.L. Homans		8.	Performing Organization Rept. No.		
9. Performing Organization Na				Project/Task/Work Unit No.		
U.S. Department	ineering Research of the Army	Laboratory	11.	Contract/Grant No.		
12. Sponsoring Organization N Environmental Pr	ame and Address otection Agency		13.	Type of Report & Period Covered		
Office of Noise Abatement and Control Crystal Mall #2, 1921 Jefferson Davis Highway			y 14.	Final		
Arlington, Virgi	nia 20460					
15. Supplementary Notes	·					
16. Abstracts						
Noise and traffic-count data were recorded and analyzed during and immediately after a nationwide stike of independent truckers. This report presents statistical noise levels, equivalent sound level (L <sub>dn</sub> ), and day-night level (L <sub>dn</sub> ) for a two-week data-gathering period. From these results, it is possible to infer the truck contribution to highway noise.						
17. Key Words and Document TRUCK NOISE, HI	Analysis. 17a. Descriptors GHWAY NOISE, Ldn,	L eq				
17b. Identifiers/Open-Ended 1	'erms					
T- COSATI EL U/G						
17c. COSATI Field/Group 18. Availability Statement		<u> </u>	19. Security Class	(This 21. No. of Pages		
·	Limited supply ava	ailahle '	Report) UNCLASSIF	x l		
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