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STATE AND LOCAL NOISE CONTROL ACTIVITIES 1977-1978

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U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF NOISE ABATEMENT AND CONTROL WASHINGTON, D.C. 20460

# NOTICE

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#### **PREFACE**

In 1971, the U.S. Environmental Protection Agency, Office of Noise Abatement and Control (EPA/ONAC), surveyed the 50 States and the nation's larger cities to determine the scope of the noise control problem. The 1971 survey was part of a comprehensive EPA study of noise and its health and welfare effects which documented the need for Federal noise control legislation.

The results of the EPA assessment of the problem were summarized in the 1972 "Report to the President and Congress on Noise" and treated in greater depth in the EPA publication entitled "State and Municipal Non-Occupational Noise Programs." This assessment of State and municipal 1971 noise control efforts concluded that States and communities were only beginning to deal with noise in 1971, and, with few exceptions, were in the exploratory stages of developing a noise control program. It was realized that State and local noise control programs must be the backbone of a national noise control program if the nation is to reduce appreciably its noise control problem.

Report to the President and Congress on Noise, Senate 92-63 (February 1972).

<sup>&</sup>quot;State and Municipal Non-Occupational Noise Program," NTID 300.8 (December 1971).

In this report, the terms "local" and "communities" have been used in most instances to refer to governmental units below the State level, i.e., for cities, counties, regional authorities, etc.

The Noise Control Act of 1972 stipulates that EPA provide technical assistance to States and communities to facilitate development and implementation of their environmental noise control programs. To assure that the EPA technical assistance program is responsive to changing State and local requirements, EPA assessed the status of State and local noise control efforts in 1971, 1974, and 1978.

The first assessment, conducted in 1971, of communities with populations greater than 100,000, was instrumental in developing the Noise Control Act, with its provision for a technical assistance program.

The second assessment conducted under this policy was based on a survey conducted in early 1974. The resulting report presented an assessment of the environmental noise control effort and noise control needs in the 50 States and 235 incorporated municipalities with populations greater than 75,000. The survey results have been used by EPA as a guide for the development of the present EPA technical assistance program. The document was also prepared for use as a planning and reference guide for public administrators and other officials engaged in the development and implementation of environmental noise control programs.

This report presents the third assessment conducted under the policy of periodically determining the status of State and local noise control efforts. A survey, conducted in 1978, was the major component of this assessment. It was intended to cover all States and territories and 824 communities in the U.S. with populations greater than 25,000. Responses were obtained from 40 States<sup>2</sup> and 562 communities.<sup>3</sup>

<sup>&</sup>quot;State and Municipal Noise Control Activities 1973-1974," U.S. Environmental Protection Agency, EPA 550/9-76-006, January 1976.

Including Puerto Rico and the Virgin Islands.

Including the District of Columbia,

The 1978 survey is considerably more comprehensive than the 1971 and 1974 surveys because there has been a dramatic increase in State and local noise control legislation and capability since 1971. The survey is the principal source of material for the assessment. However, other relevant data available to ONAC has been used to supplement the survey results where they complemented, or substantiated these results. Given the new legislative mandate of the Quiet Communities Act of 1978 it is increasingly important for EPA to identify the specific mechanisms, structures, and resources that have been developed by States and communities and to assess their present problems and needs if a responsive and coordinated program is to be implemented at all levels of government.

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# EXECUTIVE SUMMARY

By passing the Noise Control Act of 1972, Congress responded to an increasing concern for "an environment for all Americans free from noise that jeopardizes their health and welfare." Section 14 of the Act authorizes EPA to provide technical assistance to facilitate the development of State and local noise control programs. In the interest of speeding up and increasing the level and effectiveness of this assistance, Congress passed the Quiet Communities Act of 1978 which gave the EPA additional authority to assist States and communities in developing noise control programs. As a result EPA's technical assistance program has been expanded to include authority to develop a financial assistance program for State and local noise control programs.

EPA conducted a comprehensive assessment of the State and local noise programs in 1977 and early 1978 to obtain a better understanding of State and local requirements. The major element of the assessment was a survey questionnaire mailed to officials in the 50 States and 2 Territories, and to 824 communities with a population greater than 25,000. This was supplemented with information obtained from other studies and surveys. The goal of the assessment was to:

- Examine critically the status of State and local noise control programs
- Ascertain the problems these programs are encountering and technical assistance needed to overcome them

 Assess State and local progress in developing noise control legislation and in reducing specific noise problems.

Thirty-eight States, 2 Territories and 562 communities returned completed questionnaires for an overall response rate of 69 percent. In contrast to two earlier State and local surveys (1971 and 1973), the 1977-78 survey was expanded to include more questions and additional communities. For example, the 1973 survey was mailed to all communities with a population greater than 75,000.

The findings and conclusions of the 1977-78 assessment have been arranged in six categories:

- Public Awareness
- Legislation
- Implementation
- State and Local Resources
- Program Progress
- Technical Assistance.

## PUBLIC AWARENESS

Environmental noise is perceived by the majority of both State and local government officials as a problem of growing concern. The survey asked State and local officials to rate 14 different noise sources as to the significance of each as a problem in their State or community. Motorcycle noise was rated the most significant problem (58 percent for State officials and 68 percent for local officials). For communities the next most frequently designated noise problems are in the following order: trucks, automobiles, railroad operations, and buses. Table A lists the frequency with which the fourteen noise sources were identified by community officials. These findings agree with those of previous surveys.

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Government officials at both State and local levels obtain an understanding of the seriousness of their noise problems principally through formal complaints (38 percent) and noise surveys (24-28 percent). Since the number of complaints filed in a community represents only a fraction of the people bothered by noise, complaints should not be viewed as an accurate barometer of the

COMMUNITY NOISE CONTROL ACTIVITIES FROM IDENTIFICATION
OF NOISE SOURCES TO REDUCTION THROUGH PROGRAM IMPLEMENTATION

Specific Noise Sources	identified as a Significant Problem	Noise Legislation for Source with Per- formance Provisions	Full Scope Implementation of Noise Programs
Motorcycles	369 <sup>a</sup>	165	55
Trucks	353	158	46
Automobiles	315	164	48
Railroad Operations	226	49	. 19
Buses	188	142	16
Aircraft	188	40	9
Animals	170	102	57
Construction	151	129	44
Entertainment	147	149	59
Industrial Activities	145	166	77
Garbage Compactors	124	66	27
Recreational Vehicles	79	91	16
Home Power Equipment	69	109	36
Public Svc. Vehicles	63	68	15

<sup>&</sup>lt;sup>a</sup> Number of Communities Responding

extensiveness of a community's noise problems. In recent years, social-attitudinal and noise monitoring surveys have provided a more accurate assessment of the noise climate. The results of these surveys have been used as guidance in the enactment of recent State and local laws and ordinances, (e.g., Allentown, Pennsylvania).

## LEGISLATION

In discussing types of noise control legislation, there is an important distinction between those that incorporate quantitative criteria (performance standards) as a basis for determining permissible sound levels and those which describe illegal noise in qualitative terms. By 1978, 19 States and 166 communities had adopted quantitatively described noise source legislation. Recreational vehicles are most frequently mentioned sources in such State legislation. Other sources mentioned, in order, are motorcycles, trucks, automobiles, and buses.

At the community level the noise source category covered by the largest amount of legislation having performance standards is industrial activities (166). Following closely behind are: motorcycles, automobiles, trucks, and entertainment equipment.

Approximately one-half of the communities which reported significant vehicular noise problems (Table A) have developed legislation with performance standards in an attempt to control such problems. Thus, there is a substantial gap between the number of communities which reported significant noise problems and those which have developed quantitative legislation to counteract such problems. Furthermore, only about 20 percent of the communities with significant aircraft and railroad problems have attempted to develop noise legislation in the hopes of reducing these problems. Federal preemption in these areas may have discouraged localities from attempting to handle these sources. However, in cases such as ground operation noise from aircraft, the problem can be dealt with through airport cooperation and operational restrictions.

#### **IMPLEMENTATION**

1

Noise control laws are fully implemented in very few of the 31 States responding to this portion of the survey. The implementing agencies are most often police/safety (33 percent) followed by a growing number of environmental pollution control agencies (30 percent). Inadequate manpower and lack of priority are the two major problems which limit the extent and effectiveness of noise control implementation efforts at the State level.

Noise control ordinances also are not fully implemented in all the responding communities. The type of legislation most often implemented (52 percent) is a municipal ordinance containing a range of specifically prohibited noise offenses, followed by zoning ordinances (17 percent), and vehicular ordinances (10 percent). As with State noise control efforts, implementation at the local level is accomplished most often by police/safety personnel. Lack of priority, inadequate manpower, and inadequate instrumentation are the problems frequently identified as causing failure to carry out the intent of legislation.

#### STATE AND LOCAL RESOURCES

## State Noise Control Budgets

Twenty States and Puerto Rico budgeted funds for noise control activities in 1977-78. Thus, 31 States and the Virgin Islands (including the 12 States which did not respond to the survey) did not have any line items in their budget for noise, which is a serious deficiency in a noise control effort. The total amount budgeted by the States was \$3.6 million. Seven States budgeted in excess of \$100,000, led by California's \$1.6 million. On a per capita basis, Hawaii ranks first in planned expenditures at 17.6 cents per resident. Using the \$2 million figure for State budgets in 1973 as a baseline amount, noise budgets have been increasing, on the average, at 16 percent per year over the last four years. However, in comparing the individual State budgets for 1977-78 to those of 1973, budgets for seven States decreased while those of ten States increased.

## Local Noise Control Budgets

Noise control budgets were reported by 140 communities. This is a threefold increase in the number of communities since 1973 having noise control budgets. However, the number of communities sampled in the present survey is much larger than the earlier one. The total reported local expenditures have increased from \$1.9 million in 1973 to approximately \$2.7 million in 1977-78. In the earlier survey, 20 communities reported budgets for noise control of \$10,000 or more. In the last survey, this figure increased to 55 communities. Overall, for communities responding to both surveys, noise control expenditures increased in 20 communities while decreasing in 16.

# Adequacy of Budgets

The total reported State and community budgets for noise control activities increased by 59 percent in four years, i.e., to \$6.2 million in 1977-78 compared to \$3.9 million in 1973. The obvious lack of adequate funds still remains a major obstacle to the development and implementation of successful noise control programs. Only two-thirds of the States with noise legislation have funds budgeted for noise control. Nearly 300 communities with noise control ordinances lack a noise control budget. In addition, over 150 communities identifying noise as a growing community concern do not have funds budgeted for noise. Here again, there is a serious deficiency between the growth of noise programs and the necessary fiscal commitment to implement meaningful programs.

# Personne1

Twenty-eight States reported having personnel working in noise control. However, of these only 16 have personnel spending at least 20 percent of their time on noise control. Since 1973 the number of States reporting noise control personnel increased from 19 to 28.

The total number of noise control personnel working in State programs in 1977-78 was 275. Of these, 54 persons spend at least 20 percent of their time and 221 persons spend less than 20 percent of their time on noise control activities. Thus, many States apparently view noise control as a part-time activity to be added to an employee's existing duties. The

kinds of personnel employed by State noise control programs may be an indication of the direction State programs are taking. The sharp decline in inspection positions and the increase in pollution control positions since 1973 may point to a greater emphasis by States in providing technical assistance to local governments, as opposed to direct involvement with noise issues at the local level.

At the local level, only 67 communities of 562 responding have personnel working 20 percent or more of their time on noise control activities. Public health specialists, engineers and environmental technicians/inspectors filled most of the program positions. There are another 218 communities with nearly 5500 part-time staff members working less than 20 percent of their time on noise-related activities. By far, the largest number of these 5500 are police officers. They are enforcing motor vehicle noise laws and responding to nuisance complaints as a part of their normal police duties.

Most State and local programs, therefore, are staffed by a larger number of part-time than full-time people. These part-time people have their major responsibility in areas other than noise control. Also, another sizeable related problem is the number of personnel enforcing noise laws without training in accustics. Although over half of the State and local noise control personnel are either engineers or environmental scientists, only 10 percent have experience in accustics. This may impede their effectiveness unless supplementary training is provided.

# Instrumentation and Equipment

Only 24 States and 174 communities possess one or more sound level meters, the basic instrument for making noise measurements. More States and communities are purchasing, however, sophisticated pieces of equipment such as outdoor monitoring systems, frequency analyzers, and graphic level recorders. Such equipment is being used for noise monitoring surveys and to substantiate enforcement cases in court.

Although a number of communities have noise legislation, many of these lack noise measurement equipment for enforcement. Analysis of survey responses in 1977-78 also reveals 133 communities enforcing their noise legislation without any noise measurement equipment. Without measurement capability, enforcement efforts remain minimal. The 1977-78 survey results clearly demonstrate that unless existing legislation is supported by measurement capability, current programs cannot be effectively carried out.

#### PROGRAM PROGRESS

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Progress toward achieving noise abatement and control is not easily defined. Before community noise can be noticeably reduced, legislation must be enacted, resources appropriated, abatement plans implemented and their enforcement carried out. Although there is no single evaluation system for rating program progress, the main program elements must at least be in place before there can be any significant reduction in environmental noise.

State officials reported that the most significant progress resulting from their noise control efforts had been made in reducing the noise from industrial activities, public and private entertainment, recreational vehicles, motorcycles, trucks and automobiles. Local noise control officials felt that the most significant progress had been made in reducing the noise impact from public and private entertainment, industrial activities, animals, construction equipment and motorcycles. Note that this progress is based mainly upon the subjective assessment of the responding official and not necessarily reflected in noise measurement.

Enforcement emphasis at the State and local level depends on government jurisdiction at that level. States, for example, concentrate enforcement actions against motor vehicles of all types, since they control the licensing of such vehicles. On the other hand, many communities have noise ordinances aimed at controlling animals and hours of construction noise operation, an area of obvious local jurisdiction. This segregation of enforcement by jurisdiction also involves the Federal government. For example, there is often confusion as to whether Federal laws preempt the jurisdiction of local ordinances regulating airport/aircraft noise. Noise from commercial aircraft accessing an airport is controlled by FAA; but noise from equipment and operations at the

airport itself is the responsibility of the airport proprietor, which, in many cases, is the local government.

The importance of obstacles facing noise control efforts was ranked by State respondents as:

- Lack of manpower
- Inadequate budget
- Lack of political support
- Lack of effective legislation.

Community respondents ranked their obstacles as:

- Inadequate budget
- Lack of manpower
- Untrained personnel
- Lack of effective legislation.

#### TECHNICAL ASSISTANCE

Responses to the 1977-78 noise control program assessment confirm the need of States and communities to have the support of comprehensive technical assistance programs. The Quiet Communities Act of 1978 authorizes EPA to develop assistance programs in a more comprehensive manner than was permitted by the Noise Control Act of 1972.

When asked which areas of EPA assistance would be of significant value in meeting legislative and programmatic needs, the following responses were received. The numbers in parenthesis represent number of States and communities identifying significant technical assistance needs:

- (a) at the State level:
  - Personnel Training/Workshop (25)
  - Noise Measurement Instrumentation (21)
  - Effective Noise Control Methods (21)
  - Manpower (19)
  - Public Information Materials (18)

# (b) at the community level:

- Effective Noise Control Methods (303)
- Personnel Training/Workshops (300)
- Noise Control Program Guidelines (285)
- Noise Measurement Instrumentation (277).

In summary, both State and local noise control programs require:

- Comprehensive in-depth Federal assistance
- The development of and access to Federally developed technical and research data, tools, and information relating to noise abatement and control.

A comparision between the results of the 1973 survey and the 1977-78 surveys reveals that there has been little significant change in these requirements. However, EPA anticipates that significant progress in noise reduction will be made in the immediate future. The added authority which the Quiet Communities Act gives to EPA in the area of financial and technical assistance should help to achieve this objective.

### V. STATE AND LOCAL ACCOMPLISHMENTS

The initial step in creating a noise control program is to develop an awareness of the seriousness of the noise problem at the State and local level. Development of community awareness is followed by the development of noise control legislation. Once legislation is enacted, the next step is to design a program structured to carry out the mandate set forth in the legislation. An administrative structure must also be developed for the effective management and coordination of the program among the participating State and local agencies. The program requires the establishment of a budget to hire noise control personnel and to purchase noise measurement equipment. Unfortunately, many States and communities have noise control laws on the books with no program office or enforcement agency to conduct the program. Of those which do have some structure and enforcement capability, many report either no funding or inadequate levels of funding. Thus, a key problem which must be borne in mind when drawing conclusions based on this chapter is that there is no strict definition of what constitutes a "noise control program." These data represent the respondents' personal evaluations of what constitutes a noise control program.

EXISTENCE OF NOISE CONTROL PROGRAMS

#### State Programs

Table 5-1 gives the number of State noise control programs in existence according to the responding State officials. However, not all of these States have specific noise control budgets. In the States with no noise budget or a minimal one, the legislative intent and enforcement objectives of programs

are severely jeopardized. The failure to provide budgetary support gives the people in these States a false idea of the protection which they feel they are receiving from noise legislation.

TABLE 5-1 STATE NOISE CONTROL PROGRAMS

Number of State Responses	33
Number of States With a Noise Control Program	18
Percent of Responding States With a Program	55%

Question ?A. "Does your government have a noise control program?"

When the States were requested to rank the factors that inhibit establishment of noise control programs, they indicated their chief problem as one of giving noise a high priority in relationship to other programs. The next most important factor, as indicated in Table 5-2, was cost. A related factor, "not a problem," was third. (Some States responded in more than one category.) The perception of noise control efforts as costly demonstrates the misunderstanding of the minimal cost requirements of noise programs. Further educational efforts by EPA and other concerned agencies are clearly indicated.

TABLE 5-2
FACTORS DESCRIBING WHY STATES DO NOT HAVE NOISE CONTROL PROGRAMS

Factor	Number of States
Not a priority problem	9
Too costly	4
Not a problem	2
Nothing can be done	2
Not a responsibility of community	1
Opposition from industry	1

Question 7B. "Which of the following factors describes why your community does not have a noise control program?"

# Community Programs

Table 5-3 gives the number of local noise control programs in existence according to responding local officials.

TABLE 5-3 LOCAL NOISE CONTROL PROGRAMS

Number of Community Responses	539
Number of Communities With a Noise Control Program	150
Percent of Responding Communities With a Program	28%

Question 7A. "Does your government have a noise control program?"

Generally, larger communities (populations greater than 100,000) and communities with high population densities (greater than 5,000 persons per square mile) have noise control programs (Table 5-4). Possible explanations involve a greater number of noise sources and the greater number of persons vulnerable to these sources.

The majority of communities which do not have programs (Table 5-5) cited, "not a priority problem," as the reason. A number of communities also cited other reasons but apparently do not consider these other reasons significant even though they have no program. The second most cited reason was "too costly." The inappropriateness of, and the need to remedy this perception must be emphasized.

TABLE 5-4
COMMUNITIES WITH NOISE CONTROL PROGRAMS
(Percent Response)

Community Population and Density	Percent Yes Response
Population	
Greater than 250,000	45%
100,000 - 250,000	41%
50,000 - 100,000	29%
25,000 - 50,000	20%
Population Density (persons per square mile)	
Greater than 5,000	38%
2,500 - 5,000	29%
Less than 2,500	18%

Question 7A. "Does your government have a noise control program?"

Analysis of Responses by Population and Population Density.

TABLE 5-5
FACTORS DESCRIBING WHY COMMUNITIES DO NOT HAVE NOISE CONTROL PROGRAMS

Factor	. Number of Communities *			
Not a priority problem	264			
Too costly	139			
Not a problem	139			
Community not responsible	32			
Opposition from industry	29			
Nothing can be done	24			

Question 78. "Which of the following factors describes why your community does not have a noise control program?"

Community response concerning operation of a noise control program (Table 5-3) revealed that the large majority (72 percent) do not have such programs. Out of 539 communities responding, only 150 replied affirmatively. This contrasts sharply with the positive response to the question of having noise control laws. It seems that many officials recognize that noise control laws are only one component of a noise control program. Table 5-6 illustrates the contrast.

TABLE 5-6
NOISE CONTROL LAWS COMPARED TO HAVING NOISE PROGRAM IN SAME COMMUNITIES

Question	Yes	No	Total
Have noise control laws?	404 (75%)	126 (24%)	530
Have noise control programs?	150 (28%)	389 (72%)	539

Question 4A. "Are there existing laws or ordinances which incorporate noise control provisions?"

Question 7A. "Does your government have a noise control program?"

Market Military and Military

<sup>\*</sup> Most communities checked a number of factors. Hence the number of communities responding does not equal the total of those not having programs.

#### COMPONENTS OF NOISE CONTROL PROGRAMS

## State Programs

The respondents were asked to rate possible program activities in terms of importance to their programs. At the State level this rating is shown in Table 5-7. Environmental impact report preparation is their major noise activity. These reports are required by the many capital expenditure projects, such as highways, undertaken by States. Nevertheless the budgetary resources and manpower required for this activity drain resources from activities which would have a more direct impact on State noise problems and on their citizens' awareness of these matters. The table indicates that registration of complaints is the third major activity. This may imply both public concern with noise problems and the lack of strong and comprehensive local programs to resolve noise problems. Data are not available on the extent to which complaints made to State agencies may be referred to community enforcement agencies, but State-community cooperation is indicated in this area. Enforcement and public education efforts appear to be limited components of State noise control programs.

TABLE 5-7
STATE NOISE CONTROL ACTIVITIES
PERCENT OF PROGRAM EFFORT

Activity	Percentage
Environmental Impact Report Preparation	30.7%
Development of Noise Control Legislation	23.1%
Complaint Handling	15.4%
Monitoring/Social Services	15.4%
Enforcement	7.7%
Public Education	7.6%
General Administration	0
Research	0

Question 7C. "Please rank each of the following activities on the basis of the effort devoted to each by the noise control program."

# Community Programs

In the communities, the major program effort by far is related to complaint handling, followed by enforcement, and the development of noise control laws and ordinances. Table 5-8 shows the percentage of responses for each activity.

TABLE 5-8

COMMUNITY NOISE CONTROL ACTIVITIES
PERCENT OF PROGRAM EFFORT

Activity	Percentage
Complaint Handling	27.8%
Enforcement	17.8%
Development of Noise Laws	13,7%
Environmental Impact	12.5%
Surveys	8.7%
Public Education	7.8%
General Administration	7.2%
Research	4,7%

Question 7C. "Please rank each of the following activities on the basis of the effort devoted to each by the noise control program."

## MAJOR PROBLEMS IN CREATING PROGRAMS

States and communities were asked to rank the importance of nine specified problems encountered in establishing and enforcing noise control programs. The percent responses for these problems for States and communities, respectively, are shown in Tables 5-9 and 5-10.

The four major problems for States in order of rank are: lack of manpower, inadequate budget, lack of political support, and lack of citizen support. For communities, the leading problems are inadequate budget, lack of manpower, untrained personnel, and lack of effective legislation. The main difference in these rankings is the greater significance of untrained personnel at the community level and lack of political support and citizen support at the State level.

TABLE 5-9
STATE RANKINGS OF MAJOR PROBLEMS AFFECTING NOISE CONTROL EFFORTS
PERCENTAGE OF STATES CONSIDERING PROBLEM SIGNIFICANT

Major Problems	Percentage
Lack of Manpower	19.8%
Inadequate Budget	18.0%
Lack of Political Support	16.2%
Lack of Citizen Support	13.5%
Lack of Effective Legislation	12.6%
Untrained Personnel	8.1%
Enforcement Problems	6.3%
Inability to Demonstrate Success	2.7%
Inability to Meet Objectives	2.7%

Question 11A. "Please indicate the major problems facing your noise control efforts."

TABLE 5-10

COMMUNITY RANKINGS OF MAJOR PROBLEMS AFFECTING NOISE CONTROL EFFORTS PERCENTAGE OF COMMUNITIES CONSIDERING PROBLEM SIGNIFICANT

Major Problems	Percentage
Inadequate Budget	16.5%
Lack of Manpower	15.7%
Untrained Personnel	13.6%
Lack of Effective Legislation	12.7%
Enforcement Problems	10.9%
Lack of Political Support	10.8%
Lack of Citizen Support	9.5%
Inability to Demonstrate Success	5.3%
Inability to Meet Objectives	4.8%

Question 11A. "Please indicate the major problems facing your noise control efforts."

### COVERAGE OF NOISE CONTROL PROGRAMS

Based for the most part on the subjective evaluation of responding officials, the progress that has been made in combatting noise emanating from different noise sources in State and community programs is shown in Table 5-11 and Table 5-12. At both the State and community level, the greatest progress was perceived as having been made in controlling industrial and entertainment noise. Progress in the control of public and private entertainment noise is understandable since non-quantitative, nuisance-type laws often can be used by the local police to control such sources. Hence, this ranking as number one for communities may simply indicate that many communities are doing what is easiest.

TABLE 5-11
SIGNIFICANT PROGRESS IN REDUCING NOISE LEVELS
OF VARIOUS NOISE SOURCES MADE BY
STATE NOISE CONTROL PROGRAMS

Noise Source	Number of States	Percent of 38 State Responses
Industrial Activities	6	16%
Public and Private Entertainment	4	11%
Motorcycles	3	8%
Trucks	3	8%
Automobiles	3	8%
Recreational Vehicles	3	8%
Buses	2	5%
Construction Equipment	1	3%
Home Power Equipment	1	3%
Aircraft Aircraft	0	0
Animals	0	0
Railroad Operations	0	0
Garbage Compactors	0	0
Public Service Vehicles	0	0

Question 118. "How much progress has been made by your program in reducing the noise levels or noise intrusiveness from the following noise sources?"

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TABLE 5-12
SIGNIFICANT PROGRESS IN REDUCING MOISE LEVELS OF VARIOUS MOISE SOURCES MADE BY COMMUNITY MOISE CONTROL PROGRAMS

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Noise Source	Number of Communi- ties	Percent of 542 Community Responses				
Public and Private Entertainment	104	19%				
. Industrial Activities	98	18%				
Animals	69	13%				
Construction Equipment	61	11%				
Motorcycles	53	10%				
Home Power Equipment	46	8%				
Automobiles	44	8%				
Garbage Compactors	42	8%				
Trucks	39	7%				
Recreational Vehicles	25	5%				
Buses	25	5%				
Public Service Vehicles	25	5%				
Aircraft ·	21	4%				
Railroad Operations	17	35				

Question 113. "How much progress has been made by your program in reducing the noise levels or noise intrusiveness from the following noise sources?"

The relative progress between States and communities in a given field stems from the level of government which usually has jurisdiction in the field. For example, more local progress, as compared with State progress, has been made in controlling noise from animals, garbage contractors, public service vehicles, and construction equipment. States place more emphasis on controlling surface transportation noise such as motorcycles, automobiles, trucks and buses. State law usually predominates in this field although enforcement is conducted in a complementary manner by local agencies where allowed. Note that neither States nor communities have indicated much progress in the fields of aircraft and railroad operations because of federal preemption.

### EFFECTIVENESS OF STATE PROGRAMS

The effectiveness of the State noise control programs described in this chapter can be determined from the data developed in previous chapters. This is done by tracing a path from public awareness to accomplishments. For example, the importance of each noise source as a State noise problem was discussed in Chapter II. Chapter III examined the relative amounts of legislation that had been passed for each source and the degree to which such legislation is enforced. Finally the amount of State noise control program progress is examined in this chapter. Thus, a sequence has been established in which each noise source is viewed in terms of:

- The frequency with which the problem occurs
- The number of communities having the problem which have passed legislation with specific quantifiable provisions
- The number of enforcement actions taken under this legislation
- The effectiveness, in terms of source noise reduction, occurring as a result of the enforcement.

Table 5-13 is a summary of relevant data based on the sequence described. The fourteen noise sources have been set forth in the order that they are viewed as problems in the 38 responses tabulated.

For a program that is 100 percent effective, each source should have relatively constant values across the four columns, i.e., for the sequence from problem to progress. For example, if motorcycles are the number one noise problem, enactment and enforcement of motorcycle noise laws should have a high priority, and progress in controlling motorcycle noise should be indicated.

Examination of the entries in Table 5-13 shows that the range of effectiveness of noise control programs is very large, ranging from zero (railroad operations, aircraft, garbage compactors, public service vehicles, and animals) to a maximum of 57 percent (public and private entertainment). For the most serious problem, motorcycles, noted by 58 percent of the States.

TABLE 5-13

RANKING OF THE MOST OFTEN IDENTIFIED STATE NOISE PROBLEMS,
THE RESPONSES TO THESE PROBLEMS, AND THE EFFECTIVENESS OF THE RESPONSES

Rating	Noise Source	Number Quanti Number Legisl Having & Spec Problem Noise Provis  (Percent of (Percent		e isions ent of e Having	(Perc	umber With nforcement Actions ent of e Having lem)	Sign Reduc (Perc Thos	er With ificant ction ent of e Having olem)	
1	Motorcycles	22	(58%)	13	(59%)	3	(14%)	3	(14%)
2	Trucks	22	(58%)	12	.(55%)	4	(18%)	3	(14%)
3	Industrial Activities	18	(47%)	8	(44%)	4	(22%)	6	. (33%)
.4	Automobiles	17	(45%)	10	(59%)	2	(12%)	3	(18%)
5	Aircraft	17	(45%)	1	(6%)	0	0	0	0
6	Buses	16	(42%)	9	(56%)	2	(13%)	2	(13%)
7	Construction Equipment	13	(34%)	5	(38%)	2	(19%)	1	(8%)
8	Railroad Operations	11	(29%)	3	(27%)	2	(18%)	0 -	- 0
9	Garbage Compactors	9	(24%)	4	(44%)	2	(22%)	0	0
10	Recreational Vehicles	8	(21%)	7	(88%)	2	(25%)	3	(38%)
11	Public and Private Entertainment	7	(18%)	8	(114%)	4	(57%)	4	(57%)
12	Public Service Vehicles	6	(16%)	3	(50%)	2	(33%)	0	0
13	Animals	6	(16%)	2	(33%)	1	(17%)	0	0
14	Home Power Equipment	6	(16%)	5	(83%) 	2	(33%)	1	(17%)

only 59 percent passed appropriate legislation, only 14 percent enforced this legislation, and as a consequence, only 14 percent of the State programs have made progress in reducing motorcycle noise.

### EFFECTIVENESS OF COMMUNITY PROGRAMS

The effectiveness of the community noise control programs can be determined in the same manner as that used to determine the effectivness of State programs.

Table 5-14 is a summary of relevant data based on the same sequence as described above for State programs. The fourteen noise sources have been set forth in the order that they are viewed as problems for the 542 tabulated responses. The last three columns give the number of responses for legislation, enforcement, and noise reduction.

Examination of the entries in Table 5-14 shows that the range of effectiveness of noise control programs is very large, ranging from a low of 8 percent (railroad operations) to a maximum of 71 percent (public and private entertainment). For the most serious problem, motorcycles, noted by 68 percent of the communities, only 45 percent have passed appropriate legislation, only 15 percent enforce such legislation, and, as a consequence, only 14 percent of the local programs have made progress in reducing motorcycle noise.

Note that, in general, the greatest progress has been obtained for the less significant problems. For communities with the first five problems (all concerning surface transportation) progress has been made in only 12 percent of these communities.

### STATE PROGRAM ELEMENTS

A broad overview of current State activities in the field of noise control can be obtained by reviewing the responses to eight selected questions. These are summarized in Table 5-15. Almost three quarters of the respondents believe noise is of growing concern in their States, and almost all of these believe noise affects the health and welfare of the citizens in the State. Of the 29 States that view the noise issue with growing concern, 11, or about 38 percent, have indicated the existence of some sort of legislation designed to control noise, and have some level of funding, personnel and equipment to implement the legislation. Five States have enacted legislation without

TABLE 5-14

RANKING OF THE MOST OFTEN IDENTIFIED COMMUNITY NOISE PROBLEMS, THE RESPONSES TO THESE PROBLEMS, AND THE EFFECTIVENESS OF THE RESPONSES

				``	
		Number Having Problem	Number With Quantifiable Legislation & Specific Noise Provisions	Number With Enforcement Actions	Number With Significant Reduction
Rating	Noise Source	(Percent of 542 Total Responses)	(Percent of Those Having Problem)	(Percent of Those Having Problem)	(Percent of Those Having Problem)
1	Motorcycles	369 (68%)	165 (45%)	55 (15%)	53 (14%)
2	Trucks	353 (65%) .	158 (45%)	46 (13%)	39 (11%)
3	Automobiles	315 (58%)	164 (52%)	48 (15%)	44 (14%)
4	Railroad Operations	226 (42%)	49 (22%)	19 (8%)	17 (8%)
5	Buses	188 (35%)	142 (76%)	16 (9%)	25 (13%)
6	Aircraft	188 (35%)	40 (21%)	9 (5%)	21 (11%)
7	Animals	170 (31%)	102 (60%)	57 (34%)	69 (41%)
8	Construction Equipment	151 (28%)	129 (85%)	44 (29%)	61 (40%)
9	Public and Private Entertainment	147 (27%)	149 (101%)	59 (40%)	104 (71%)
10	Industrial Activities	145 (27%)	166 (114%)	77 (53%)	98 (68%)
11	Garbage Compactors	124 (23%)	66 (53%)	27 (22%)	42 (34%)
12	Recreational Vehicles	79 (15%)	91 (115%)	16 (20%)	25 (32%)
13	Home Power Equipment	69 (13%)	109 (158%)	36 (52%)	46 (67%)
14	Public Service Vehicles	63 (12%)	68 (108%)	15 (24%)	25 ·(40%)

TABLE 5-15
SUMMARY OF STATE PROGRAM ELEMENTS

37412	Fespond -	Grawing Concern	Heal th Problems	Legis- lacive	Sudget	Person- nel Above	Enforce- ment	Equip- ment	Progres
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Alaska									
Artzona	(	τ		t		Ţ	•	(	
Arkansas	1		1				•		
California				1	1	ţ	t	ι	1
Colorago									
Connecticut	ſ	1	1		1			t	
Delaware	ĭ	ť	x	ą.					
Florida	x.	1	4	ť	4	ι		i	
Georgia	ï	4	ť	•	i	,		Ċ	
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irqin İzlanda	*	1						l.	

Yes or Significant
No or Minimal or Don't Know

growing concern for noise, and only one of these, Montana, viewed the issue as a health problem.

Approximately 70 percent, or 28, of the State respondents indicated possession of some sort of noise-measuring instrumentation. Twenty-five of these also indicated that the noise issue was of growing concern, but only 11 of the 28 had also enacted legislation and had appropriated money and assigned personnel. In the other 17 cases, the concern had apparently prompted action to purchase equipment but had not proceeded further.

Therefore, recognition of noise as a current or potential problem, having perhaps both health and economic implications, is a necessary first step in creating an enforceable noise control program. The fact that this first step was only partially followed by the required succeeding steps confirms a conclusion drawn from the survey which indicated that the most frequently desired area of assistance from EPA consists of education and training programs.

#### VI. TECHNICAL ASSISTANCE NEEDS

One of the major objectives of the 1978 survey was to provide information that would make the EPA technical assistance program more responsive to State and local needs in the field of noise control. Since the technical assistance program began in 1972, EPA has periodically solicited the opinions of State and local officials concerning the value of services currently provided and the types of additional or refined services they would like to see provided. In this way, the technical assistance program is kept abreast of State and local needs.

To provide data on the value of currently provided support, officials were asked first to rank the value of nine areas of EPA support that have been available in the immediate past. To provide data that will give EPA guidance as to the future direction that the EPA technical assistance programs should take, officials were then asked to rank the value of eleven possible assistance areas that would be contained in future assistance programs. Note that the items in the second questions are in general more specific than those in the first question.

VALUE OF CURRENT AREAS OF EPA ASSISTANCE

#### State Programs

Table 6-1 summarizes the perceived value for States of the nine areas of EPA support presently available and used. Of those products and services

The rank in the tables of this chapter are based on the number of times an item was ranked by an official, and not on the rank value itself, i.e., 0, 1, 2, or 3, as requested by the questionnaire (see page A-6). The data obtained did not permit use of the rank values.

mentioned, general support, noise emission standards, and training workshops appear to be the most valuable.

TABLE 6-1
VALUE OF AREAS OF EPA ASSISTANCE TO STATES

Areas of Assistance	Number Of Responses	
General Support	19	
Noise Emission Standards	17	
Training Workshops and Program Guidelines	16	
Instrumentation, Test, Loan or Advice	14	
Federal Regulations	13	
Model Legislation	13	
Cost and Technology Reports	12	
Noise Level Recommendations	12	
Assessment Guides	9	

Question 10A. "Please rank each of the following products or services available from the U.S. Environmental Protection Agency on the basis of their actual value to your program."

### Community Programs

Table 6-2 gives the perceived value for communities of the nine areas of EPA assistance presently available and used. A comparison of communities with States shows that both value noise emission standards highly. However, training workshops and general support at the State level are replaced by noise level recommendations and model legislation at the community level.

TABLE 6-2

VALUE OF AREAS OF EPA ASSISTANCE TO COMMUNITIES

Areas of Assistance	Number Of Responses
Noise Emission Standards	151
Noise Level Recommendations	143
Model Legislation	140
Federal Regulations	127
General Support	118
Training Workshops and Program Guidelines	115
Instrumentation, Test, Loan or Advice	113
Assessment Guides	73
Cost and Technology Reports	62

Question 10A. "Please rank each of the following products or services available from the U.S. Environmental Protection Agency on the basis of their actual value to your program."

### DESIRED AREAS OF EPA ASSISTANCE

### State Programs

Table 6-3 gives the areas in which EPA assistance is desired by States. Only when the responding State official identified that the particular area of technical assistance would be of significant value to the State's noise control efforts was the response included. The first three areas of desired assistance are:

- Personnel training/workshops
- Noise measurement instrumentation
- Effective noise control methods.

TABLE 6-3
DESIRED AREAS OF EPA ASSISTANCE FOR STATES

Areas of Assistance	Number Of Responses
Personnel Training/Workshops	25
Noise Measurement Instrumentation	21
Effective-Noise Control Methods	21
Manpower	19
Public Information Materials	18
Noise Control Program Guidelines	16
Enforcement Procedures	1.4
Land Use Planning Guidelines	] 14
Noise Assessment Guidelines	13
Federal Noise Control Methods	12
Model Legislation	12

Question 103. "Please indicate which of the following areas of assistance would be of significant value to your noise control effort in meeting legislative and programmatic needs."

#### Community Programs

THE CONSTRUCTION OF STREET

Table 6-4 shows the areas in which EPA assistance is desired by communities. Once again, only when the responding local official identified that the particular area of technical assistance would be of significant value to the community's noise control efforts was the response included. A comparision of previously used assistance (Table 6-2) with future desired assistance (Table 6-4) for the first three areas in each table is interesting. Presently used assistance areas, i.e., standards, recommendations, and legislation, are those required in the earliest stage of noise program development. The desired areas, i.e., control methods, personnel training, program guidelines, and instrumentation, are those areas required in the following stage of noise program development. This confirms a conclusion reached previously, that at the local government level, noise control programs are extending beyond the development of legislation to the development of structured programs.

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TABLE 6-4
DESIRED AREAS OF EPA ASSISTANCE FOR COMMUNITIES

Areas of Assistance	Number Of Responses
Effective Noise Control Methods	303
Personnel Training/Workshops	300
Noise Control Program Guidelines	285
Noise Measurement Instrumentation	277
Noise Assessment Guidelines	277
Enforcement Procedures	260
Model Legislation	252
Public Information Materials	246
Manpower	212
Federal Noise Control Methods	206
Land Use Planning Guides	195

Question 108. "Please indicate which of the following areas of EPA assistance would be of significant value to your noise control effort in meeting legislative and programmatic needs."

It is instructive to compare the needs expressed by communities (Table 6-4) with common community enforcement problems (Table 3-10) and with major problems facing community noise control efforts (Table 5-10), since the needs should be related to solutions to the problems. Thus, for example, the need "Personnel Training/Workshops" is reflected in the enforcement problem, "Inadequate Manpower" and in the major problems, "Lack of Manpower," and "Untrained Personnel." Again, the need, "Noise Measurement Instrumentation" is reflected in the enforcement problem, "Inadequate Instrumentation." Other correlations between needs and problems can be found, but the inconsistent terms used makes the comparison less straightforward than the examples cited.

#### FINANCIAL ASSISTANCE

Although the survey solicited information on the magnitude of State and local noise program budgets, the survey did not ask if these budgets were adequate. Also, EPA financial assistance was not listed among the areas of potential assistance. Thus, the need for financial assistance is not directly obtainable from the survey results. However, inadequate resources frequently limited State and local efforts. The greatest resource needed was additional trained personnel. Requests in this category encompassed advice on upgrading the training of existing staff, EPA training courses, guidelines for the selection and hiring of personnel, and provision of supplementary personnel on an as-needed basis to increase the level of program expertise. Further, fulfillment of many of the identified requirements (e.g., additional personnel, purchase of instrumentation) is based upon the availability of additional monies. For those States and communities which have not initiated noise control activities, funding is probably a major barrier to establishment of a program.

### VII. EPA'S STATE AND LOCAL TECHNICAL ASSISTANCE PROGRAM

This section describes those EPA activities and programs relating to, or having an impact on, the EPA State and local technical assistance program. These activities and programs were either inaugurated by the Quiet Communities Act of 1978, or are continuing programs originating in the Noise Control Act of 1972. The brief descriptions given in this section are intended to provide to State and local government officials an indication of the variety of EPA programs that are available to assist them in their noise control efforts. Also given is the statutory authority for the program and the EPA organization created to aid these officials.

## THE STATUTORY BASIS FOR THE PROGRAM

The first national noise control legislation in the United States was the Noise Control Act of 1972. Under this law the Environmental Protection Agency was mandated to:

- Identify major sources of noise
- Regulate those identified sources
- Publish criteria to protect the public health and welfare
- Propose aircraft noise standards to the FAA
- Label noisy products
- Engage in research, technical assistance, and dissemination of public information, and
- Coordinate all Federal noise control efforts.

As provided in this Act, State and local governments retain primary responsibility for the control of noise. It neither imposed specific requirements on States and communities, nor did it establish a comprehensive Federal assistance program to support their activities. Furthermore, EPA did not have statutory authority to provide funds to State and local governments for the establishment or maintenance of noise control programs.

Recognizing the inability of the EPA to support State and local programs, Congress passed the Quiet Communities Act of 1978. On November 8th President Carter signed the Act into law. The primary purposes of the Act are to extend EPA authority under the Noise Control Act of 1972 and to significantly expand EPA involvement with State and local governments and EPA noise related health research. The new Act includes a wide range of State and local assistance activities designed to stimulate and ultimately increase the capacities of States and communities to cope comprehensively and effectively with the potential dangers and ill effects of excessive noise.

## OBJECTIVES OF THE ASSISTANCE PROGRAM

To carry out the expanded authority provided by the Quiet Communities Act, a revised State and local technical assistance program has been organized by EPA around the basic objectives of:

- Increasing the number of effective State and local noise control programs to complement Federal regulatory actions
- Expanding public knowledge and awareness of the effects of environmental noise on health and welfare
- Initiating and enhancing demonstration programs in all areas of State and local noise control
- Conducting research on noise reduction techniques applicable to the most prominent community noise problems
- Assessing cost requirements, feasibility and effectiveness of State and local noise control programs.

#### PROGRAM ORGANIZATION

EPA established the Technical Assistance Branch (in the State and Local Programs Division of the Office of Noise Abatement and Control) to achieve the technical assistance program objectives. The Regional Noise Program Chiefs in the ten EPA Regional Offices work with State and Iocal government officials in implementing these programs.

The States included in each Regional Office's jurisdiction are shown in Figure 7-1. Each Regional Office has several noise control personnel, and EPA anticipates that this manpower level will increase in future years. Table 7-1 lists the name, address and telephone number of each Regional Noise Program Chief. To augment regional noise control capabilities, EPA, through contractors, has held noise training courses, provided technical services to the Regions, and used temporary personnel to supplement its permanent work force. For example, the Intergovernmental Personnel Act (IPA) of 1970 permits the temporary interchange of personnel among the Federal government, State and local governments, and institutions of higher education to perform mutually beneficial assignments.

## TECHNICAL ASSISTANCE PROGRAMS AND ACTIVITIES

To establish and maintain State and local noise control capabilities, Congress emphasized the use of State and local financial and technical assistance in the Quiet Communities Act of 1978. As a result, EPA has developed financial and technical assistance programs and activities designed to help States and communities identify and remedy noise issues and problems. Brief descriptions of these programs and activities follow.

## Training of Noise Control Personnel

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EPA sponsors regional noise workshops and seminars for State and local officials. Early workshops focused on stimulating awareness of the noise problem through presentations on health effects, measurement techniques and instrumentation, and the EPA role in noise control activities. The program has now moved into its second phase, that of dissemination of specific data on the formulation and enforcement of State and local noise legislation. Although tailored to a particular audience, these seminars are more technically

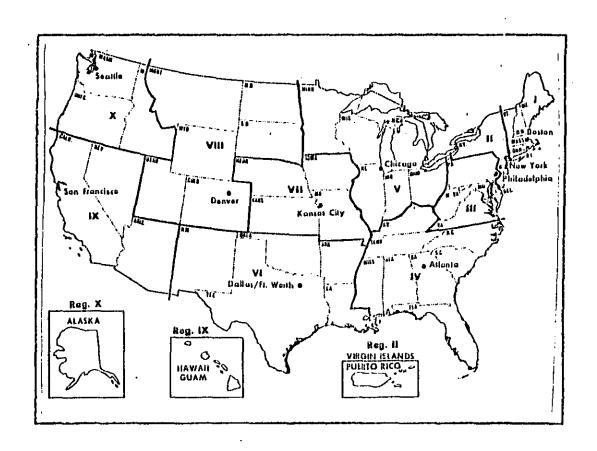


FIGURE 7-1. U.S. ENVIRONMENTAL PROTECTION AGENCY REGIONAL OFFICES

TABLE 7-1
EPA REGIONAL NOISE PROGRAM CHIEFS

EPA Region	States	Address	Noise Program Chief	Telephone
Ī	Maine, N.H., Vt., Mass., R.I., Conn.	JFK Building Room 2113 Boston, MA 02203	Mr. Al Hicks	617/223-5703
II	N.Y., N.J., P.R., V.I.	26 Federal Plaza Room 907G New York, NY 10007	Mr. Tom O'Hare	212/264-2109
Ш	Pa., Md., Del., W.Va., Va.	Curtis Building Room 225 6th & Walnut Streets Philadelphia, PA 19106	Mr. Patrick Anderson	215/597-9118
Į	N.C., S.C., Tenn., Ky., Miss., Ga., Fla., Alaska	345 Courtland Street Atlanta, GA 30308	Mr. James Orban	404/881-3067
V	Wisc., Ill., Mich., Ohio, Ind.	230 S. Dearborn Street Chicago, IL. 60604	Mr. Horst Witschonke	312/353-2205
۷I	N.Mex., Okla., Ark., La., Tex.	First International Bldg. 1201 Elm Street Dallas, TX. 75270	Mr. Mike Mendies	214/749-3837
IIV	Nebr., Kans., Iowa. Mo.	1735 Baltimore Street Kansas City, MO 64108	Mr. Fred Brown	816/374-3307
AIII	Mont., N.Dak., S.Dak., Wyo., Utah, Colo.	1860 Lincoln Street Suite 900 Denver, CO 80203	Mr. Larry Svoboda	303/837-2221
IX	Calif., Nev., Ariz.	100 California Street San Francisco, CA 94111	Dr. Richard Procunier	415/556-4606
x	Wash., Oreg., Idaho	1200 Sixth Avenue Room 11C Seattle, WA 98101	Mrs. Halen Daer	206/442-1253

oriented and typically include laboratory measurement exercises and field trips to monitor specific noise sources and enforcement techniques.

In July 1975, EPA published guidelines for developing a training program in noise survey techniques. This material is intended to assist States and communities in training technicians to make reliable measurements of simple noise problems encountered in the community.

EPA has also developed a noise training manual for three target audiences: decisionmakers, environmental managers, and entry-level noise technicians. It is being adapted into an accredited correspondence course for State and local noise control officials.

## Instrumentation Activities

EPA provides technical advice to State and local governments on the types and uses of sound measurement and analysis instruments. Regional offices loan noise equipment on a limited basis for support of State and community monitoring activities. EPA also evaluates instruments such as sound level meters and community noise monitoring systems.

## Development of Improved Methods for Measuring and Monitoring Noise

EPA has developed a community noise monitoring and assessment manual. This manual is designed to provide local community officials with uniform guidelines for the design and implementation of a community monitoring program, including a locally administered social and acoustical survey. EPA has developed an automated system called LISTEN (Local Information System to Evaluate Noise) to assist communities in assessing their noise problems and in planning their strategy for abating and controlling noise. Three manuals have been developed to describe the system and its associated computer programs. EPA will provide computer services to communities on a limited basis to assist in the analysis of community-collected data.

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#### Preparation of Model State and Local Legislation

80th a Model Community Noise Control Ordinance and model State noise control enabling legislation have been developed by EPA. To date, 20 States have incorporated Model Ordinance guidelines in their noise control

programs. The model State law was developed in cooperation with the Council of State Governments and was published by them in 1974. As a complement to the model community ordinance, EPA is developing a Code of Current Enforcement Practices with simple and technically correct local enforcement procedures. EPA is also developing a model building code with noise control provisions.

## Financial Assistance

Under authority of the Quiet Communities Act EPA has initiated a financial assistance program. The new Act mandates EPA to fund, through grants, cooperative agreements or contracts:

- Financial assistance to States and communities for:
  - Problem identification
  - Noise control capacity building
  - Transportation noise abatement
  - Evaluation and demonstration of noise control techniques
- Establishment of regional technical assistance centers
- Provision of assistance in staffing and training for State and local programs
- Maximum participation of older Americans in noise control programs
- Conduct of a national environmental noise assessment
- Development of educational materials
- Loans of equipment to States and communities
- Increased noise research.

Grants and agreements will be awarded in limited amounts for periods of less than two years. Their primary purpose is to provide financial assistance to States and communities that are in the process of establishing noise control programs. They are not available as a primary funding source.

## The Quiet Communities Program

In September 1977, EPA launched its first Quiet Communities Program (QCP) research and demonstration project in Allentown, Pennsylvania. This is a pilot project to demonstrate the application of the best available techniques for local noise control, including a community noise assessment program,

model local noise control strategy, noise control legislation, and an enforcement program. The emphasis of the QCP effort is on total community involvement and action, aided by EPA guidance and fiscal support. Two additional pilot QCP demonstrations were successfully initiated in mid-1979 in Spokane and Kansas City.

Allentown has completed the four stages of the program: (1) a comprehensive assessment study to identify and define their noise control needs, (2) development of a local noise control strategy incorporating the assessment data, (3) development of a responsive noise control ordinance passed in April 1979 by the Allentown City Council, and (4) enforcement of the noise legislation.

#### ECHO Program

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EPA will be expanding the help it now gives to communities under the ECHO (Each Community Helps Others) Program. Under ECHO, communities that already have established noise abatement programs help others to set them up.

Currently, 51 communities are receiving, or are scheduled to receive, technical assistance through the ECHO program. Assistance activities conducted through ECHO during 1978 and 1979 include:

- Development or strengthening of existing ordinances
- Identification of specific community noise problems
- Initiation of public education programs
- Advice on land-use planning control
- Training of local staff.

#### Regional Technical Assistance Centers

A number of regional technical assistance centers, using the capabilities of universities and private institutions, have been established. These centers will supplement the Regional effort in providing technical assistance and training to State and local officials.

## Local Information System to Evaluate Noise

EPA is authorized in the 1978 Act to "develop and implement a national noise environmental assessment program to identify trends in noise exposure and response, ambient levels, and compliance data, and to determine the effectiveness of noise abatement actions in communities through the collection of physical, social and human response data."

EPA has therefore developed a Local Information System to Evaluate Noise (LISTEN). Using sophisticated computerized techniques, LISTEN provides a tool for evaluating the nature and extent of a community's noise problems and aids in selecting the most cost-effective noise abatement procedures.

The first comprehensive application of LISTEN has been completed in Allentown, Pennsylvania. It has also been applied in Spokane, Washington, and Salt Lake City, Utah.

## Information Services

EPA has established a library of technical information to serve the noise control community. It uses a computerized information retrieval system to maintain noise data abstracted from journal articles. Inputs to the system include information on specific noise sources, control technology, health effects of noise, measurement methodologies, and noise laws and regulations. Copies of EPA reports and documents may also be obtained from the regional offices. An audiovisual library of training materials available for loan to State and local governments is also being developed.

## ADDITIONAL EPA ACTIVITIES RELATED TO TECHNICAL ASSISTANCE

There are a number of EPA activities which have an impact on State and local noise control programs in addition to the technical assistance programs and activities discussed in the previous section.

#### Airport Noise Abatement Planning

EPA assists airport proprietors and local jurisdictions in analyzing airport noise problems and examining alternative approaches to noise control. The approach has been to suggest changes in both airport operations and in land use, which will be heavily stressed in the future. Cooperation of the Federal Aviation Administration has been essential.

EPA is presently assisting the following airports: Rochester, New York; Ft. Lauderdale, Florida; Cmaha, Nebraska; Boston, Massachusetts; Atlanta, Georgia; and Philadelphia, Pennsylvania.

## Railroad Noise Abatement Planning

EPA is promulgating a national regulation on noise emitted from railroad facilities and operations. The new Act authorizes EPA to assist communities in noise abatement planning around such facilities. Through EPA assistance,
jurisdictions can assess the impact of current rail noise on their citizens
and project the impact anticipated as a result of the proposed Federal regulation. Communities could then analyze prospects for taking various complementary
noise abatement actions, especially in the land use area.

## Highway Noise Abatement Planning

In cooperation with the Federal Highway Administration, EPA is developing a simplified highway noise prediction system for use by planners, highway officials and other citizens. This system will evaluate the noise impacts of highway system elements.

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#### Public Education and Information

The Act directs EPA to expand its efforts in the area of public education and information on the effects of noise and what can be done to reduce or control noise problems.

This expanded effort will include providing noise education units for schools, program kits for civic, fraternal and religious organizations, and information for hearing test centers, doctors, workers, public officials, and the general public.

EPA will provide assistance to communities to initiate community noise education and information programs.

The National Information Center for Quiet was established to assist with the processing of public requests for noise education and information materials and to conduct other activities which will increase national public awareness of noise effects.

## Health Related Noise Research

In the area of noise effects research, studies are being conducted concerning:

- Investigations of the effects of noise exposure on blood pressure and heart rate
- Effects of high level noise during pregnancy (animals)
- Assessment of the relationship between annoyance and intrusiveness of noise sources
- Effects of high level, low frequency noise (animals)
- Longitudinal study of the effects of noise on children
- The social handicap of noise induced hearing loss
- The health consequences of noise disturbed sleep
- Study of temporary hearing loss problems on children.

The main area of future research will be investigations into the relationships between noise exposure and stress related effects such as hypertension and cardiovascular disease on the grounds that there is a potentially serious public health problem. The Quiet Communities Act also requests that special emphasis be placed on conducting research in this area.

## Technology Research

In the area of technology research, a program with Purdue University dealing with identification of truck noise sources and engine enclosure investigations has been completed. Other programs initiated in FY 77 and continuing through FY 79 deal with:

- Quiet truck technology
- Quiet tire technology
- Internal combustion engine technology.

## Transit and Pedestrian Malls

EPA is currently working with Portland and New York City on their transit and pedestrian mall noise problems. The Urban Mass Transit Administration (UMTA) of the U.S. Department of Transportation is cooperating. Under evaluation are retrofitting of buses and developing models for noise prediction. Similar activities are eligible for EPA assistance.

#### I. INTRODUCTION

#### OBJECTIVES OF THE 1978 ASSESSMENT

The objectives of the 1978 assessment of State and local noise control activities and requirements were to:

- Gather information on the current types and amounts of State and local noise control activities
- Evaluate State and community progress in noise control since the 1971 and 1974 assessments
- Provide States and communities with a basis for judging their noise control needs, approaches, and performance vis-a-vis that of other similar communities
- Develop an updated baseline from which the status and progress of State and community noise control efforts may be assessed in future years
- Identify State and local government needs necessary for the successful establishment and operation of a national noise control program
- 6. Provide information necessary for the development of an EPA technical assistance program responsive to identified State and local needs.

#### GENERAL APPROACH

The general approach followed in making the assessment involved the following steps:

- Design and conduct of a survey of States and communities
- Compilation of relevant demographic data
- Analysis and integration of data from the survey
- Correlation of survey data with demographic factors
- Addition of relevant non-survey material
- Examination of the chain of local noise program development from awareness of the problem, passing of legislation, organizing a program, enforcement of laws, to progress in abatement of noise
- Examination of trends in State and local noise control activities and the change in their effectiveness since the 1974 assessment
- Identification of the needs of State and local governments in carrying out noise control
- Examination of the current usage of various areas of EPA assistance to State and local governments
- Solicitation of planned usage of various areas of EPA assistance to State and local governments.

#### SURVEY METHODOLOGY

The report on the 1974 EPA survey presented an assessment of the State and local noise control programs that existed in 1973 to 1974. In that survey information was requested from 53 States and territories and 235 incorporated communities with populations greater than 75,000. Over 180 million persons were represented by the State survey respondents; 55 million persons were covered in the community responses.

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To update the results of the 1973-1974 survey, and to enlarge the population base, a more comprehensive survey was conducted in 1977 and early 1978. A new questionnaire was mailed to 50 States, 2 Territories, and to 824 U.S. local communities with populations 25,000 or greater. Governors, mayors, and noise control officials were the original recipients of the questionnaire. The publications, U.S. 1970 Census and Mayors of America's Principal Cities, July 1977, were used to determine which communities met the population criteria. Follow-up contacts were made to stimulate the greatest number of responses. In this report, the terms "community" and "local" are used for the cities, towns, and county governments to which the survey was directed.

A cover letter explaining the purpose of the survey and a questionnaire with instructions were mailed to State and local governments. A copy of the questionnaire is included in Appendix A. The questionnaire requests very specific answers; however, space is provided for "other" comments. The survey consists of 11 areas designed to determine the status and needs of the community and State noise control programs. In order to avoid the need for constantly referring to the survey questionnaire, and to aid the reader in interpreting responses to questions, each question is given with the table of data derived from replies to the question. Where no such question appears, data in the table are derived from non-survey sources.

Table 1-1 presents a breakdown of survey respondents and the population covered by the States and communities that submitted a questionnaire.<sup>2</sup> Of 876 surveys which were mailed, 602 were returned for a 69 percent response. Approximately 87% of the U.S. population was represented by the States' respondents; approximately 62% by the communities' responses.

The population solicited, i.e., that of the 824 communities having over 25,000 population, is not necessarily a random sample of the total U.S. population. The population of the 562 responding communities is, in turn, a self-selected sample of the population solicited.

Submission of a questionnaire does not mean that a particular question was answered. Thus, different numbers of responses apply to various questions.

TABLE 1-1
AN ANALYSIS OF SURVEY RESPONDENTS

Survey Categories	Total Number Surveyed	Number of Respondents	Percent Responded	Total Population Surveyed (Thousands)	Population of Respondents (Thousands)	Respondent Population as a Percent of Population Surveyed
Status	50	38 .	76	202,465	177,007	87.4
· Territories	2	2	100	2,774	2,774	100,0
Communities	824	562	60.2	97,838	60,119	61.7
Distribution of Communities by Population 1			:	•		
25,000 - 49,999	454	281	61.9	15,772	9,577	60.7
50,000 - 99,999	221	157	71.0	15,124	11,340	74.9
100,000 - 250,000	93	76	81.7	17,151	10,156	59.2
Over 250,000	56	48	85.7	49,791	29,046	58.3
TOTAL	824	562	68.2	97,838	60,119	61.7

<sup>1</sup> Based on 1970 Census and Mayors of America's Principal Cities.

Several general limitations of this survey are discussed below. Specific limitations are presented, as appropriate, in the text.

- Some contradictions and inconsistencies can be found within the responses. For example, numerous communities indicated that they have specific noise standards in their legislation; however, a review of their legislation indicated only nuisance regulations with no quantitative standards specified.
- A number of questionnaires were incomplete in that some questions, and in some cases parts of questions, were not answered.
- Some questionnaires were returned too late to be included in the survey data.
- In a few cases, communities known to have noise control programs did not return questionnaires.
- The questionnaire was sent to governors' and mayors' offices.
   Replies were received from police chiefs, sanitation engineers,
   public health officers, etc. These persons may not be representative of the general public in the community.
- The effects of the composition of the sample, discussed in footnote 1, have not been investigated. That is, small communities (population less than 25,000) and non-cooperative communities did not contribute to the data. However, Table 1-1 indicates coverage of the U.S. population is high. Hence, the impact of the communities not represented in the sample is probably small.

The second and fourth limitations made the treatment of nonrespondents to a question difficult. Also, it was impossible to be consistent in making assumptions concerning possible responses. In most cases, nonrespondents were ignored, except in cases where the total responses to a question was very low. In any event, the reader should keep in mind that 12 States and 262 communities did not return questionnaires, and that the number of nonrespondents to any particular question is usually greater than these values.

## ORGANIZATION OF REPORT

Chapter II documents the public's concern for noise as a significant problem in modern life.

Chapter III summarizes the efforts of State and local governments to combat noise by means of legislation and enforcement.

Chapter IV is devoted to the resources, i.e., personnel, money and equipment, available at the State and local levels to implement their noise control programs:

Chapter V discusses the accomplishments of State and local governments in controlling noise together with the problems they have encountered.

Chapter VI uses the results of the assessment to create a list of the needs of State and local governments in the field of noise pollution control.

Chapter VII discusses the organization and characteristics of the EPA State and local assistance program, both as it existed at the time the survey was undertaken and as it has been modified by the Quiet Communities Act of 1978.

#### II. PUBLIC AWARENESS OF THE NOISE PROBLEM

#### NOISE AS A HEALTH AND WELFARE PROBLEM

Unwanted sound is one of America's most widespread nuisances. But noise is more than just a price paid for living in a modern world, for it constitutes a real and present danger to people's health. However, the effects of noise on health are often misunderstood or unrecognized. For example, hearing loss is usually considered to be strictly an occupational hazard. Of the many health hazards related to noise, hearing loss is the most clearly observable and measurable by health professionals. As many as 19 million Americans suffer from hearing loss. For many of these persons, hearing loss either may be due to noise or have been increased by noise exposure in the workplace and the general environment.

Recent studies have produced evidence relating the stress, irritability, annoyance, and interference with work, rest, and thought caused by noise to widespread physiological, psychological, and performance problems. Noise may be associated with many of the nation's major health problems, such as heart disease and high blood pressure. Eastern European studies have shown an association between noise and potential hypertension, and representatives from the scientific community, including the National Academy of Sciences, are of the opinion that this relationship should be studied in more detail.

Noise is also suspected of interfering with children's learning and with normal development of the unborn child. Noise is reported to have triggered extremely hostile behavior among persons presumably suffering from emotional illness. It is suspected that noise lowers our resistance, in some cases, to the onset of infection and disease.

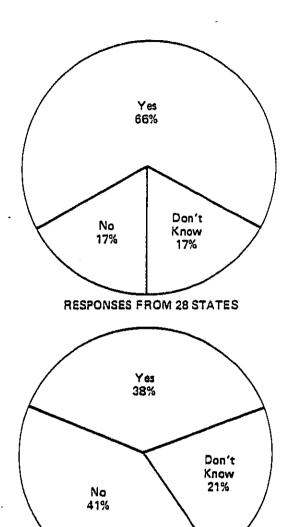
However, many Americans are largely unaware that noise may pose possible dangers to their health and welfare. Noise is only one of many environmental stresses to which a person is subjected, and therefore cannot be easily pinpointed by the layman as the source of a particular physical or mental ailment. Biomedical and behavior research are now at the point where health hazards stemming from noise can actually be identified, though specific links have yet to be determined.

Recent surveys indicate that the majority of Americans view noise in their communities as a growing concern, although this does not mean they understand its potential impact on their health and welfare. However, a survey conducted in Allentown, Pa., of 500 citizens in 1978, showed that this understanding may be developing. In response to a survey question, approximately 40 percent of the people interviewed believed that noise had affected their "physical or emotional health and well-being."

This reaction also occurred in response to the survey question that asked if noise was perceived to affect the health and welfare of the community. Replies to this question (Figure 2-1) indicated that 66 percent of the 28 responding State officials answered affirmatively. At the community level, only 38 percent of the 494 community respondents perceived noise to be such a problem.

Figure 2-1 also shows that 17 percent of the States and 21 percent of the local community officials don't know if noise is viewed by their citizens as a health problem. This may be due to a lack of public education and information concerning the potential seriousness of the problem. On the other hand, besides the issue of a handicapping hearing loss that affects almost 20 million persons, scientific evidence has only recently shed light on the possible non-auditory effects of noise.

The survey revealed additionally that there is a strong tendency to view noise as a health and welfare problem in the limited number of communities that have noise ordinances and that actively enforce such ordinances.



RESPONSES FROM 494 COMMUNITIES

FIGURE 2-1
PERCEPTION OF NOISE AS A PROBLEM

Question 2C. "Is the noise issue viewed as a problem affecting the health and welfare of the citizens in the community?"

#### GROWTH OF CONCERN OVER THE PROBLEM OF NOISE

As many as 86 percent of the States and 52 percent of the responding community officials feel that the noise issue is a growing concern (Figure 2-2). The reason for the disparity between these percentages probably is based on the fact that a number of States have already developed noise policies. That is, a number of States have developed programs and policies for noise control and other pollution controls, whereas local governments may have many different problems competing for limited resources. As a consequence, they have given priority to environmental problems mandated by Congressional legislation as well as to those Federal programs that have made funds available for their program development. In spite of these competitive factors, a 52-percent expression of concern for growth of the noise problem in communities is significant.

Also, since States traditionally control one of the greatest sources of noise--motor vehicles--they are more likely to be aware of the growth of concern for this noise source.

In another survey<sup>2</sup> that analyzed the concern for growth of the noise problem, a sample of urban residents was asked to rank four pollution problems:

- Air pollution
- Pollution of drinking water
- Pollution of waterways
- Noise pollution.

Sixty percent viewed noise pollution as "not too serious." However, 57 percent of the residents perceived noise as a more serious problem than five years earlier, and 48 percent felt that "not enough is being done about it." These percentages demonstrate that the noise problem may be getting worse and is deserving of more attention.

Recall, however, that 12 States did not respond. Lack of response may indicate a lack of concern.

<sup>&</sup>quot;Urban Residents' Attitudes Toward Environmental Issues," conducted by the Gallup Organization for the National League of Cities, Nov. 1978.

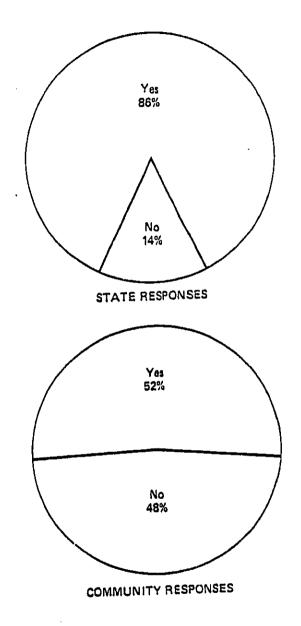


FIGURE 2-2. PERCEPTION OF NOISE AS A GROWING CONCERN

Question 23. "Is the noise issue a growing concern in your community?"

In the EPA survey, concern with noise is a strong function of population. In Figure 2-3, survey data show quite vividly that concern increases directly with population. In cities having population greater than 250,000, 76 percent of responding officials consider that noise is becoming a growing concern.

Expressions of the intensity of public concern for the noise problem can be obtained from a series of four recent unpublished surveys conducted by the cities of Allentown, Pa., Spokane, Wash., Jacksonville, Fla., and the State of Florida. Table 2-1 shows answers to questions concerning the public's willingness to pay for noise control by taxation. Approximately 60 percent of the persons surveyed in Allentown and Spokane would pay additional taxes for noise control.

Communities that have expressed the most concern about the growth of noise are located in Midwestern and Southwestern States (Figure 2-4).

CONTRIBUTIONS TO THE NOISE PROBLEM

A key objective of this survey was to determine the noise sources causing the greatest problems. Respondents were asked to rate significant contributions to the noise problems from 14 specified noise sources. Table 2-2 lists significant noise sources ordered by the number of States responding. Table 2-3 gives a similar listing for communities.

Transportation vehicles of all types were identified most frequently by officials as the most significant contributors to the noise problem. Specifically, motorcycles were identified most frequently, closely followed by trucks, autos, railroads, buses, and aircraft.

For the eight non-transportation sources, these rankings are fairly consistent for States and communities, except for the industrial sources and animals.

Several additional observations can be made about the specific sources. For example, aircraft noise annoyance increases with population as expected, since the number of aircraft operations usually increases with population. Railroads are more significant noise contributors in small cities where a greater portion of the population may live near the railroad than in larger cities.

<sup>1</sup> See Table 2-3.

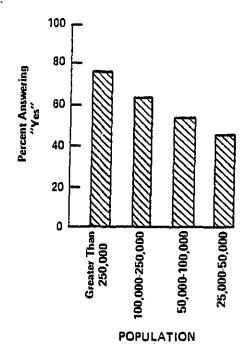


FIGURE 2-3. GROWING CONCERN WITH NOISE

Question 2B. "Is the noise issue a growing concern in your community?"

Community Data (Figure 2-2) Grouped by Population.

TABLE 2-1
WILLINGNESS TO PAY FOR NOISE CONTROL
ALLENTOWN, PENNSYLVANIA SURVEY

How much are you willing to pay in additional taxes for a noise control program?

Amount	Percent
Will pay extra (total)	60.6%
\$ .10 per person	5.6%
\$ .25 per person	5.0%
\$ .50 per person	6.2%
\$1.00 per person	30.3%
\$2.50 per person	7.6%
Greater than \$2.50 per person	5.9%
Will not pay extra	39.4%

## SPOKANE, WASHINGTON SURVEY Summer 1978

How much are you willing to pay in additional taxes for a noise control program? .

Amount	Percent		
Will pay extra (total)	57%		
\$ .10 per person	10%		
\$ .25 per person	7%		
\$ .50 per person	8%		
\$1.00 per person	18%		
\$2.50 per person	11%		
Greater than \$2.50 per person	3%		
Will not pay extra	43%		

# TABLE 2-1 (CONT'D.) STATE OF FLORIDA SURVEY Fall 1976

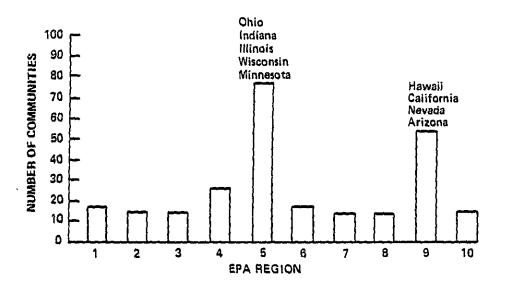
Of the taxes you pay how much should be used to control noise? (No tax increase.)

Amount of Taxes	Percent
Nothing	21%
Less than \$1	23%
\$1 to \$5	34%
\$5 to \$10	15%
\$10 or more	7%
	100%

# JACKSONVILLE, FLORIDA SURVEY Fall 1977

If \$1 of your tax money goes to Environmental Control Programs, how would you like to see it distributed?

Pollution Programs	Cents
Air	32
Water	27
Solid Waste	21
Noise	20



(See page 7-4 for a map of EPA regions)

FIGURE 2-4. GROWING CONCERN WITH NOISE (512 Communities)

Question 2B. "Is the noise issue a growing concern in your community?"

Community Data (Figure 2-2) Grouped by EPA Region.

TABLE 2-2 STATE RATING OF VARIOUS NOISE SOURCES AS A SIGNIFICANT PROBLEM

Rating	Noise Source	Number of States	Percent of Responding States		
1	Motorcycles	22	58%		
2	Trucks	22	58		
3	Industrial Activities	18	47		
4	Automobiles	17	45		
5	Aircraft	17	45		
6	Buses	16	42		
7	Construction Equipment	13	34		
8	Railroad Operations	11	29		
9	Garbage Compactors	9 ' (	24		
10	Recreational Vehicles	8	21		
11	Public & Private Entertainment	7	18		
12	Public Service Vehicles	6	16		
13	Animals	6	16		
14	Home Power Equipment	6	16		

# (38 State Responses)

Question 2E. "Please rank the following noise sources on the basis of their contribution to your area's noise problem."

TABLE 2-3

COMMUNITY RATING OF VARIOUS NOISE SOURCES AS A SIGNIFICANT PROBLEM

Rating	Noise Source	Number of Communities	Percentage Of Responding Communities
1	Motorcycles	369	68%
2	Trucks	353	65
3	Automobiles	315	58
4	Railroad Operations	226	42
5	Buses	188	35
6 ·	Aircraft	188	35
7	Animals	170	31
8	Construction Equipment	151	28
9	Public & Private Entertainment	147	27
10	Industrial Activities	145	27
11	Garbage Compactors	124	23
12	Recreational Vehicles	79	15
13	Home Power Equipment	69	13
14	Public Service Vehicles	63	12

# (524 Communities' Responses)

Question 2E. "Please rank the following noise sources on the basis of their contribution to your area's noise problem."

Industrial sources are more of a problem in the nation's largest cities than in smaller cities. For example, industrial noise is ranked as the sixth most important problem in cities having populations greater than 250,000, but as the tenth most important problem in cities having populations with less than 50,000. There may be several reasons for this ranking. Perhaps many small communities don't have noisy industries. On the other hand, those small communities that have such industries may be dependent upon them and hence reluctant to complain. Many small communities also are bedroom communities for the larger cities. In such communities the commuting transportation noise problem may be generated by the presence of the noisy industries in the adjoining larger city.

In line with these rankings, EPA (and DOT) have promulgated or are proposing regulations for the top six transportation noise sources and for a seventh frequently cited source, construction equipment.

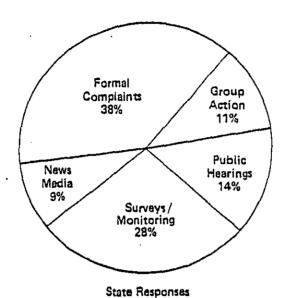
In almost all regions of the country, motorcycles, trucks, and automobiles are consistently ranked as the major noise offenders. Reaction to the other three transportation sources, i.e., railroads, buses and aircraft, is also fairly uniform across regions.

# EXPRESSIONS OF PUBLIC CONCERN

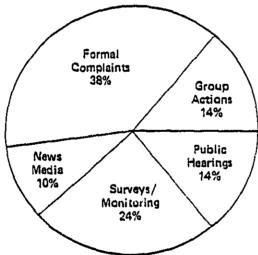
There are several ways in which a governmental unit gains an understanding of the extent of the noise problem in its area. The EPA survey asked respondents to rate the importance of the following methods of gaining such an understanding: formal complaints, group actions, public hearings, surveys/monitoring, news media, other, and don't know. Relative importance was determined for those respondents who consider each of these methods significant. The results for both States and communities is shown in Figure 2-5.

Both levels of government seem to obtain their understanding of the noise problem primarily from formal complaints (States and communities, 38 percent), followed by surveys/monitoring (States 28 percent, communities 24 percent).

Percent of Respondents Considering Each Method Significant







Community Responses

FIGURE 2-5. METHOD OF GAINING UNDERSTANDING OF THE IMPORTANCE OF THE NOISE PROGRAM

Question 2D. "How has your government gained an understanding of the extent of the noise problem in your area?"

2-14

Very likely news media, public hearings, and group actions are the means by which individuals gain an understanding of the noise problem. Having gained an understanding, such individuals are then able to make formal complaints to their local government unit. Also, the number of complaints filed in a community represents only a fraction of the number of people annoyed by noise.

The various aspects of the studies of community noise, summarized briefly, demonstrate the existence of a noise problem. The next step is to measure the degree of community concern for this problem. This was done in the EPA survey by asking respondents to rate significant community problems; i.e., crime, urban renewal, housing, air pollution, noise pollution, water pollution and traffic. Overall, approximately 32 percent of the communities view noise pollution as a significant problem. This concern is greatest in the nation's larger communities as shown in Figure 2-6.

Another national survey has repeatedly produced somewhat different results. A comprehensive national housing survey is sponsored annually by the U.S. Housing and Urban Development Department, with technical support from the U.S. Bureau of Census. Since 1973, HUO has performed an Annual Housing Survey in an effort to determine the quality of housing. Questions are included concerning local neighborhood conditions throughout the United States. Each sample has ranged between 69,337 and 74,005 residences during the years 1973-1976.

One question asks respondents to identify undesirable conditions in their area from a list of possible objectionable neighborhood conditions, including:

- Noise
- Heavy traffic
- o Street lighting
- Street repair
- e Crime
- Commercial and industrial development
- Litter
- Odor

Current Housing Reports, Series H 150-73B, Annual Housing Survey, 1973-1976, Part B, Indicators of Housing and Neighborhood Quality, Departments of Commerce and Housing and Urban Development.

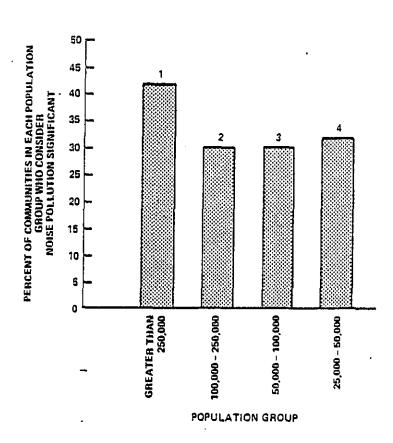


FIGURE 2-6. NOISE AS A COMMUNITY PROBLEM

Question 2A. "Please rank the following problems in your community on the basis of public concern."

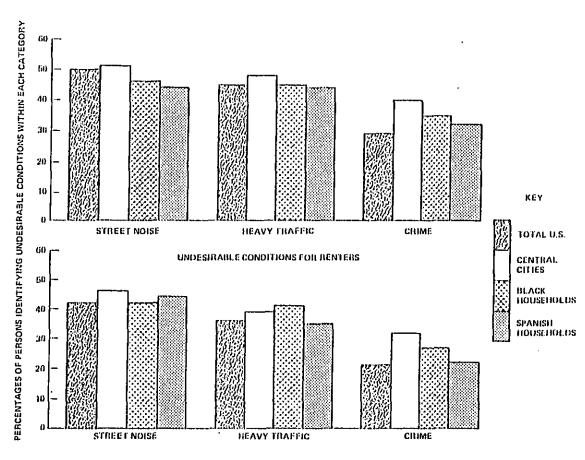
Noise Pollution Responses, Grouped by Population.

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- Deteriorating housing
- Abandoned buildings.

Since 1973, noise has been consistently the most frequently mentioned undesirable condition in residential neighborhoods (see Figure 2-7). In 1975, 42 percent of homeowners and 50 percent of renters mentioned noise as an undesirable problem. These values were fairly consistent for white, black and Spanish households. In contrast to crime, which seems to receive the nation's primary attention, noise was mentioned twice as often.

Thus, for individuals, noise appears to be a major environmental factor influencing the quality of a neighborhood. For many, it is a sufficiently undesirable condition to cause them to move.



UNDESIGNBLE CONDITIONS FOR HOMEOWNERS

FIGURE 2-7. THE THREE MOST UNDERSIRABLE NEIGHBORHOOD CONDITIONS (percentages identified in 1975 HUD/Census Bureau Survey of Renters and Homeowners)

# III. LEGISLATION AND ENFORCEMENT

#### ENABLING LEGISLATION

Enabling noise legislation is a declaration of policy by a State.

legislature describing the need for noise control, outlining program goals and objectives, and establishing an organizational framework for carrying out noise control objectives. Communities do not usually require enabling legislation.

Enabling legislation is often an initial step toward formulation of a noise control program and includes delegation of authority to a specific agency or agencies or city, and stipulation of those agencies' functions and powers.

Typical enabling legislation contains the following provisions:

- The scope of the proposed noise control efforts
- The specific noise criteria, standards, and regulations to be formulated
- An outline of the regulatory development process
- A timetable for development.

Thirty-one States responded to the question concerning the enactment of enabling legislation. Fifteen of these stated that such enabling legislation had been enacted. The States which did not have enabling noise legislation were

Question 3A. "Has enabling legislation been enacted to establish an environmental noise control program?"

asked whether such legislation was being proposed at the current session of their legislatures. Twelve States responded to the question, five of them affirmatively.

CONTENTS OF EXISTING LAWS AND ORDINANCES

# State Legislation

Thirty-two States responded to a question concerning noise control laws. Nineteen of these States have laws which incorporate noise control legislation.

Following are brief discussions of the major categories of State noise control legislation.

- Zoning/Land Use. Six States have noise regulations based on zoning or land use. These regulations stipulate permissible noise levels for three land use categories — residential, commercial, and manufacturing.
- Vehicles. Most States regulate three types of motor vehicles —
  trucks, automobiles, and motorcycles. Approximately 17 States
  which regulate trucks have adopted the same noise emission limits
  as EPA.
- Recreational Vehicles. This is a category of noise emission which is coming under increasing State regulation. The initial impetus for these regulations was the mushrooming use of snow-mobiles. Subsequently, other varied-terrain vehicles, such as dune buggies, engine-powered water skis, and motor boats, have come under regulation.
- Railroads. Very little noise legislation at the State level concerning railroads was in existence during the period 1971-1977. Some States regulate railroad yards. The Environmental Protection Agency is issuing noise regulations for all interstate rail carriers.

- Aircraft. Only California has established aircraft noise limits. The initial law established a maximum noise level for each single aircraft flyover and also a 24-hour maximum noise level for certain sized airports, based on aircraft operations. The legality of the regulation of individual aircraft has been questioned: this provision appears to be in conflict with the Federal Aviation Act and the Federal responsibility to regulate navigable airspace.
- Construction Sites. Only one State, Maryland, has any regulation on construction site noise. It is based on classifying construction as an industrial activity. Construction site noise must be within the permissible level allowed for industrial use.
- Building Codes. California is the only State that has a building code with noise limits. The code applies to the intrusion of environmental noise in new public buildings. When these are exceeded, the code requires ameliorative action.

### Community Legislation

Seventy-six percent of communities report some type of noise control law or ordinance. There is a very high correlation between the communities that reported noise as a growing concern and those with existing noise control laws. Thus the legislation in these communities appears to follow increasing awareness of noise as a problem. Table 3-1 shows the breakdown of these responses by population and by population density. The

TABLE 3-1
COMMUNITIES WITH SOME TYPE OF NOISE CONTROL LAW

	Number of Responses							
Population & Density	Yes	Yes	Total					
	(Number)	(Percent)	Number					
<u>Population</u>								
0ver 250,000	. 39	87	45					
100,000 - 250,000	. 58	85	68					
50,000 - 100,000	. 112	76	148					
25,000 - 50,000	. <u>195</u>	<u>72</u>	<u>269</u>					
Total	. 404	76	530					
Population Density  Over 5,000/sq. mi.  2,500 - 5,000/sq. mi.  Under 2,500/sq. mi.  Total	105	78	134					
	157	75	210					
	<u>97</u>	<u>76</u>	<u>128</u>					
	359	76	472					

Question 4A. "Are there existing laws or ordinances which incorporate noise control provisions?"

data indicate that noise laws are common in cities over 100,000 in size but there appears to be little dependence on population density.

During the seventies, a major increase occurred in the amount of local noise legislation. As late as 1971, just 59 municipal governments had adopted quantitative noise control laws. By 1977, this total was well over 400.

Following are brief discussions of the major categories of community noise control legislation.

- Zoning/Land Use. Land use controls were the first form of local noise legislation incorporating quantitative provisions. The basic land categories addressed generally are the same as in State statutes — residential, business/commercial, and industrial. Often a more definitive breakdown of land uses is contained in ordinances which correspond to the Standard Land Use Classification Manual (SLUCM) or the Standard Industrial Classification (SIC).
- Vehicles. Regulation of motor vehicles is for many communities the largest category of local noise control. Generally, trucks, which are categorized in terms of weight, motorcycles and automobiles are regulated. Many communities are adopting emission levels comparable to those in the EPA Interstate Motor Carrier Regulation.
- Recreational Vehicles. Approximately one-third of the communities establishing vehicle laws have some acoustic provision regulating such vehicles as snowmobiles, trail bikes, dune buggies, and motor boats. Snowmobiles and motor boats with outboard engines are the most commonly regulated sources. In addition to establishing source-specific levels, many jurisdictions are beginning to examine controls over the area in which, and when, recreational vehicles are permitted to operate.

- Railroads. Railroad activity is not a usual source for regulation at the local level. Occasionally limits are established for particular railroad-related sources such as train whistle, refrigerator car, and locomotive engine exhaust noise. When EPA regulations for interstate railroad noise are put in effect, most communities with interest in this area will begin to enforce noise limits compatible with the EPA regulations.
- Aircraft. Aircraft noise, although a local noise problem, is not commonly regulated at the local government level. Usually cities have refrained from enacting legislation because of Federal preemption and the question of interference with interstate commerce. The area of greatest local interest has involved regulating noise generated by maintenance and repair of aircraft. This narrow involvement by local governments may be changing as the courts interpret the role of the proprietor in airport noise liability.

Today, just 26 communities have any type of quantitative air-noise emission requirements. In a new category of concern are the various types of rotary wing aircraft (i.e., police and traffic surveillance helicopters) that use considerable latitude in their height restrictions, thereby impacting residential areas.

• Construction Sites. Most construction site regulation is of a non-acoustic nature, e.g., regulation of hours during which construction is permitted. Acoustical criteria vary considerably, some communities regulating specific pieces of equipment. Others aggregate construction site noise. Some communities utilize property boundaries for

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noise measurement; others specify measurement distances up to 1,000 feet. More populated cities are beginning to reference the EPA compressor noise emission regulation, a trend which will increase the total number of communities having acoustical provisions.

Building Codes. Building codes rarely contain quantitative noise emission provisions. These codes apply to a select type or portion of a building structure and its associate accessory equipment. To date, there are very few comprehensive building codes. This appears to be changing, since some municipalities are establishing energy requirements for building construction which have added benefits of reducing sound transmission. Furthermore, model building codes are being revised to incorporate noise provisions.

### TYPES OF LEGISLATION

# EPA Model Legislation

In cooperation with the Council of State Governments, EPA developed model state enabling legislation for noise control. The model law was published in the Council's 1974 handbook of suggested State legislation. In September 1975, EPA published a model community noise control ordinance in conjunction with the National Institute of Municipal Law Officers. The model legislation is intended to be a basic tool that communities can use to construct noise control ordinances suited to local needs and conditions. The model ordinance includes both nuisance and performance provisions and covers stationary and mobile noise sources, together with land use planning. The preamble contains an extensive discussion on Federal preemption in addition to other explanatory material. EPA has also prepared a code of current practices for proper enforcement of the ordinance.

Table 3-2 contains the number of responses by communities to the question of using EPA model legislation. The data are arranged by population and by population density.

Thirty-two communities out of the 156 communities having noise legislation used EPA's model in formulating this legislation. Since the model was not published until September 1975, the number of its users is not a fair indication of its usefulness. Communities of 50-100,000 population were relatively greater users (31 percent) of the ordinance than other-sized cities.

TABLE 3-2
COMMUNITY UTILIZATION OF EPA MODEL LEGISLATION

Caralanian & Caraina	No. of Responses							
Population & Density	Yes	No	Total					
0veral1	32	124	156					
Population								
Over 250,000	4	16	20					
100,000 - 250,000	6	21	27					
50,000 - 100,000	11	25	36					
25,000 - 50,000	11	57	68					
Population Density			,					
Over 5,000/sq. mi.	12	35 ~	47					
2,500 - 5,000/sq. mi.	8	52	60					
Under 2,500/sq. mi.	8	24	32					

Question 3C. "Was EPA's Model Community Control Ordinance used in formulating this legislation?"

# Quantitative and Qualitative Legislation

Any discussion of types of noise control legislation must make clear the distinction between quantitative and non-quantitative regulations. Noise control regulations incorporating quantitative (or acoustical) criteria are referred to as performance standards. Such standards specify permissible sound levels, which, if exceeded, are in violation of the regulations and subject to enforcement. Non-quantitative noise control regulations have restrictions couched in such general terms as "unnecessarily loud" or "disturbing." The use of such so-called nuisance regulations continues because they

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can be applied to any source of noise. Their disadvantage stems from lack of a precise definition that can be measured quantitatively and thus objectively enforced.

Table 3-3 lists the numbers of States having quantitative noise regulations for various noise sources. It is apparent that various types of vehicle standards predominate in State legislation, but there has been significant expansion into other areas in recent years. For instance, in 1973, only three States had performance standards for land use noise. By 1977, the figure had doubled to six. In addition, several States have adopted well-planned and far-reaching noise control programs featuring quantitative provisions. Florida had a seven-man motor vehicle noise enforcement team, which, by its own measurement efforts and its training of local enforcement officers, had succeeded in reducing truck noise in the State by 3 decibels. The Florida program emphasized regulations which will reduce noise at its source, as in planning construction of buildings and roads so that unnecessary levels of noise are designed out from the start.

Table 3-4 shows the number of quantitative noise standards for various noise sources in communities. The regulation of noise from motor vehicles, industry, construction equipment and even entertainment is predominant. This is a nearly tenfold increase in the number of comparable standards shown in 1974 surveys.

Table 3-5 compares the number of communities with specific noise source standards in their legislation to the number of communities which perceive the same noise sources as significant problems. It can be seen that legislation in many source categories lags behind perception of problems. This is strikingly apparent in the case of motor vehicles. Railroad noise is also a significant problem which the proposed EPA regulation will help to alleviate. Relatively few noise sources -- industrial activities, home power equipment, recreational vehicles and public service vehicles among them -- have adequate amounts of coverage in legislation having performance standards.

TABLE 3-3
QUANTITATIVE NOISE STANDARDS USED BY STATES
BY NOISE SOURCE CATEGORIES

Source of Noise	Number of States
Recreational Vehicles	20
Motorcycles	13
Trucks	12
Automobiles	10
Buses	9
Industrial Activities	8
Public and Private Entertainment	8
Land Use	6
Construction Equipment	5
Home Power Equipment	5 ·
Building Requirements	4
Garbage Compacting Truck	4
Public Service Vehicles	3
Railroad Operations	3
Animals	2
Aircraft	1

Question 4C. "If answer to 4A is 'yes' please respond to the following:

(Identify) the noise source controls covered under the noise control provisions of your legislation. Identify only those that include performance standards (decidel noise levels)."

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TABLE 3-4
QUANTITATIVE NOISE STANDARDS IN COMMUNITIES
BY NOISE SOURCE CATEGORIES

. Source of Noise	Number of Quantitative Standards
Industrial Activities	166
Motorcycles	165
Automobiles	164
Trucks	158
Entertainment	149
Buses	142
Construction Equipment	129
Land Use	118
Home Power Equipment	109
Animals	102
Building Requirements	94
Recreational Vehicles	91
Public Service Vehicles	68
Garbage Compacting Trucks	66
Railroad Operations	49
Aircraft	40
Total	1,810

Question 4C. "If answer to 4A is 'yes' please respond to the following:

(Identify) the noise source controls covered under the noise control provisions of your legislation. Identify only those that include performance standards (decidel noise levels)."

TABLE 3-5

NOISE LEGISLATION IN COMMUNITIES COMPARED TO THEIR PERCEPTION OF NOISE PROBLEMS

Source of Noise	Number of Quantitative Standards in Legislation (Question 4C)	Number of Communities Perceiving Noise Sources as Significant Problem (Question 2E)
Industrial Activities	166	145
Motorcycles	165	369
Automobiles	164	315
Trucks	158	353
Entertainment	149	147
Buses	142	188
Construction Equipment	129	151
Home Power Equipment	109	69
Animals	102	170
Recreational Vehicles	91	79
Public Service Vehicles	68	63
Garbage Compacting Trucks	66	124
Railroad Operations	49	226
Aircraft	40	188

Question 4C. "If answer to 4A is 'yes', please respond to the following:

(Identify) the noise source controls covered under the
noise control provisions of your legislation. Identify
only those that include performance standards (decibel
noise levels)."

Question 2E. "Please rank the following noise sources on the basis of their contribution to your area's noise problem."

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Many cities have built outstanding programs with the help of performance standards, frequently with very limited budgets. New York City, for instance, despite cutbacks in manpower and funding, has begun a 10-year program to lessen subway noise. Work is done with the manufacturers of equipment to determine how much noise reduction is technologically feasible. Then suitable noise level standards are built into the law so that future equipment can be designed and built to comply with the reduced decibel levels required.

For example, in Boulder, Colorado, a task force of concerned citizens, in a careful study extending over a year and a half, discovered that noise over 70 decibels could result in up to a 20 percent loss of effectiveness in jobs that require concentration. The result of their study was a municipal ordinance specifying noise level allowances for both vehicular and non-vehicular noise. Allowable noise levels between 7:00 A.M. and 11:00 P.M. are 55 decibels for residential areas, 65 decibels for commercial areas, and 80 decibels for industrial areas. Monitoring for this program is handled by a team of three officers operating about 20 hours a week in a specially equipped and marked car. Their salaries and the cost of the equipment for this effort come out of a modest \$36,000 budget.

Of the 126 communities which answered no to the question of having noise control ordinances, 93 responded to the question of whether they anticipated the development of such legislation over the next two years. The respondents split almost evenly, 48 answering that they did anticipate noise control legislation, 45 responding that they did not. If the overall figure of 52 percent expecting to develop legislation is accepted, then the total percentage of communities with noise control ordinances will increase from 404 to 470, or from 76 percent to 88 percent. 1

#### **ENFORCEMENT**

The designation by a State or community of a particular agency as the responsible organization for noise control often provides a nucleus from which to develop a comprehensive noise control program. When more than one State or local agency is involved, a fragmented or functionally divided situation

<sup>1</sup> See Table 3-1.

may arise. Fragmentation frequently cannot be avoided, however, because of the inherent responsibilities of established agencies. In such cases, a strong coordinating office, willing to cooperate with other agencies and even train personnel in such agencies (the noise control section of the Florida Department of Environmental Regulations is a good example) can often provide overall direction. Appointment of joint task forces for noise control is another solution to the fragmentation problem.

# Enforcement by States

Table 3-6 gives the number of States enforcing noise control laws for each of 14 noise sources. Note that these numbers are not an answer to question 5C as quoted under the table. That is, the numbers given are the number of States, not the number of enforcement actions. This was necessary since many States and communities did not furnish the necessary enforcement data; overall the largest number of States are enforcing truck, industrial noise, and entertainment legislation.

Table 3-7 correlates types of legislation and enforcement agencies at the State level. From the data it is evident that States rely heavily on public safety officers. However, the use of specialized Environmental Pollution Control Officers is second in frequency and is a growing factor. The table also reveals frequent enforcement by State agencies of municipal codes.

To the survey question regarding treatment of violations (question 5B), State responses indicated that very few noise investigations result in the issuance of citations. This does not necessarily indicate weakeness of enforcement, since the process of investigation itself often results in removal of the violation. As one environmental protection officer in Colorado put it, the objective of an ordinance is to achieve quiet, not to collect fines.

Respondents were asked to identify the most significant problems hindering their enforcement efforts. States answering this question indicate inadequate manpower most frequently as the problem limiting the effectiveness of their noise control efforts. The second most pressing problem was the lack of prioritization.

### Enforcement by Communities

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Table 3-8 gives the number of communities enforcing noise control laws for each of 14 noise sources. As mentioned above, this is not a direct answer

TABLE 3-6
NUMBER OF STATES ENFORCING NOISE CONTROL LAWS
FOR EACH NOISE SOURCE

Source of Noise	Number of States	Percent of States Responding*
Trucks	4	13%
Industrial Activities	4	13%
Public and Private Entertainment	4	13%
Motorcycles	3	10%
Buses	2	6%
Automobiles	2	6%
Railroad Operations	2	6%
Construction Equipment	2	6%
Public Service Vehicles	2	- 6%
Garbage Compactors	2	6%
Recreational Vehicles	2	6%
Home Power Equipment	2	6%
Animals	1	3%
Building Requirements	1	3%
Land Use/Zoning	1	3%
Other (Grain Elevators)	1	3%
Aircraft	0	0

<sup>\*</sup> Based on 31 States responding.

Question SC. "Please list the number of enforcement actions for each of the following noise source controls." (See text.)

TABLE 3-7
TYPES OF LEGISLATION AND ENFORCEMENT AGENCIES
FOR STATES

					nforce	ment /	Agencie	S			
Legislation	Police/ Safety	Public Health	Environmental Pollution Control	Planning/ Developing	Public Works	Building/ Zoning	Transpor- tation	Natural Resources	Other	Total	Percent
Municipal Code	2	1	1	1	0	0	0	0	0	5	18.5
Zoning Code	0	1	0	1	0	0	0	O	0	2	7.4
Vehicle Code	3	0	0	0	0	0	1	0	0	4	14.8
Building Code	0	٥	0	0	0	0	0	0	0	0	0
Health/Safety Code	0	2	1	ß	0	0	0	0	0	3	11.1
Aircraft/Airport Code	0	0	0	0	0	0	0	٥	0	0	0
Administrative Code	1	0	5	0	0	0	0	0	0	6	22.2
State Statute	3	0	1	0	1	0	0	1	1	7	25.9
Other	0	0	0	0	0	0	0	٥	0	0	0
Total	9	4	8	2	1	0	1	1	1	27	
Percent	33.3	14.8	29.6	7.41	3,70	0	3.70	3.70	3.70		

Question 4B. "Please indicate each type of legislation and respective type of enforcement agency."

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TABLE 3-8
NUMBER OF COMMUNITIES ENFORCING NOISE CONTROL LAWS FOR EACH NOISE SOURCE

Source of Noise	Number of Communities	Percent of Communities Responding*
Industrial Activities	77	14.7%
Public and Private Entertainment	59	11.2%
Animals	57	10.9%
Motorcycles	55	10.5%
Automobiles	48	9.2%
Trucks	46	8.8%
Construction Equipment	44	8.4%
Home Power Equipment	36	6.9%
Garbage Compactors	27	5.2%
Railroad Operations	19	3.6%
Buses	16	3.1%
Recreational Vehicles	16	3.1%
Public Service Vehicles	15	2.9%
Aircraft	9	1.7%

<sup>\*</sup> Based on 524 community responses.

Question 5C. "Please list the number of enforcement actions for each of the following noise sources." (See text.)

to question 5C. Animals as a noise source receive more attention at the local level as compared with the State level. Otherwise, the leading controlled sources are somewhat the same at both levels.

A slight trend was noticeable toward increased enforcement as community size and density increased. Note that 72 percent of the communities which perceive noise as a growing concern enforce their noise laws.

Table 3-9 indicates that municipal or city ordinances are the most common types of legislation (52 percent), followed by zoning ordinances (17 percent), and vehicle codes (10 percent). The following modes of enforcement were most common:

<u>Legislative Type</u>	Enforcement Agency
Municipal Code	Police/Safety
Zoning Code	Building/Zoning
Vehicle Code	Police/Safety

Almost 50 percent of all enforcement is conducted by Police/Safety personnel and 21 percent by Building/Zoning personnel. Only 8 percent of enforcement is conducted by Environmental/Pollution Control personnel. Environmental/Pollution Control personnel may not be directly involved in enforcement but they often train police personnel in proper measurement procedures and enforcement techniques. They also provide valuable consulting and training to personnel in other local offices who have responsibilities in some phase of noise control enforcement.

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The communities were asked to identify the most significant problems hindering their enforcement efforts. Table 3-10 shows the percentages of communities identifying specific political, financial, and programmatic problems as obstacles to their noise control programs. The lack of prioritization by enforcement authorities stands out as the most frequently identified problem. This is not too surprising, since, as was indicated above, police assign their officers to what they perceive to be their most important duty, that of combatting crime.

TABLE 3-9
\*TYPES OF LEGISLATION AND ENFORCEMENT AGENCIES
FOR COMMUNITIES

					Enfo	rcement	t Ager	ncies	. i		
Legislation	Police/ Safety	Public Health	Environmental Pollution Control	Planning/ Development	Public Works	Building/ Zoning	Transpor- tation	Natural . Resources	Other	Total	Percent
Municipal Code	250	39	28	19	18	30	1	1	7	393	52.1
Zoning Code	9	5	3	26	2	80	0	0	1	126	16.7
Vehicle Code	62	1	5	0	1	0	1	0	2	72	9.5
Building Code	3	1	0	0	4	36	0	0	0	44	5.8
Health/Safety Code	8	16	4	1	1	1	0	0	1	32	4.2
Aircraft/Airport Code	0	0	1	0	0	2	1	0	4	8	1.1
Administrative Code	1	0	4	0	1 .	2	1	0	0	9	1.2
State Statute	27	3	16	2	a	4	4	0	4	60	7.9
Other	7	1	0	1	0	1	0	0	1	1,1	1.5
Total	367	66	61	49	27	156	8	1	20	755	
Percent	48.6	8.74	8.08	6.49	3.58	20.6	1.06	0.13	2.65		

Question 4B. "Please indicate each type of legislation and respective type of enforcement agency."

TABLE 3-10
COMMON PROBLEMS IN ENFORCEMENT OF NOISE
REGULATIONS IN COMMUNITIES

Problem	Percentage of Respondents Rating Problem as Significant 43			
Enforcement Authorities Do Not Prioritize Noise				
Inadequate Manpower	28			
Inadequate Instrumentation	24			
Inadequate Enforcement/Measurement Procedures	22			
Ambiguous Legislation	19			
Lack of Citizen Support/Awareness	18			
Unenforceable Legislation	17			
Actions Not Upheld in Court	15			

Question 5D. "What are the major enforcement problems reducing the effectiveness of your noise control effort?"

The second limiting factor in effective enforcement by police forces is that of inadequate manpower. Noise legislation has historically been enforced through the assignment of limited numbers of officers to noise enforcement in addition to their regular duties. Given the appropriate training and equipment, police officers often can make significant contributions to noise control.

Without adequate manpower, however, enforcement efforts are subject to failure, and the good intentions behind the development of noise control legislation negated. Noise control requires two things: an active public education program and an active enforcement effort. With both these factors in operation, the public will be educated to the need for restricting excessive noise producing activities, and a large degree of voluntary compliance can be achieved.

# CONCLUSIONS

It is important that the Environmental Protection Agency address enforcement problem areas by an intensified public education program, by conducting more workshops to train local personnel in the most feasible enforcement techniques, by assisting communities in drafting non-ambiguous and technically adequate legislation, and by demonstrating effective noise control techniques in selected communities.

#### IV. STATE AND LOCAL RESOURCES

This section discusses the resources available to the States and local governments to conduct environmental noise control programs. The resources addressed are personnel, budget allocations, and the availability of sound measurement and analysis instrumentation.

SUMMARY

# Personnel Resources

Trained personnel in adequate numbers able to devote a substantial portion of time to noise control activities are essential for the effective administration and enforcement of a noise control program. The increasing number of States and communities that have adopted noise control legislation in the last few years requires a corresponding increase in the availability of expert manpower.

Of the 40 responding States and Territories, 16 States, including Puerto Rico, reported personnel who devoted at least 20 percent of their time to noise control activities in 1977. In addition, 12 States had at least one person who devoted some time to noise functions in the State. The total number of personnel reported in 1977 was 275, with 54 persons spending at least 20 percent of their time and an additional 221 persons spending some time but less than 20 percent of their time on noise control activities.

Sixty-seven communities reported that they had 142 noise control personnel who devote 20 percent or more of their time to noise control activities. In addition, there are 218 communities with as many as 5,456 part-time

staff members who devote some time (less than 20 percent) to noise control activities. Almost 80 percent of the personnel working in noise-related activities at the local level are police engaged in the enforcement of noise control ordinances, investigating complaints, etc.

# Budget Allocations

Nineteen States and Puerto Rico, or 45 percent of the 44 States <sup>1</sup> and Territories responding to the 1978 survey, budgeted funds for noise control activities in 1977. In the earlier survey, budget data were provided by 16 States or 36 percent of the 45 responding States.

California's \$1.6-million 1977 budget ranks first among the responding States. Seven of the 20 States reported budgets in excess of \$100,000. Overall, the budgets for the reporting States increased from about \$2.0 million in 1973 to approximately \$3.6 million in 1977. Thus, the total reported budgets for the States' noise control activities increased by about 80 percent over the four-year period.

On a per capita basis, Hawaii ranks first among the reporting States, with a planned expenditure of 17.6 cents per resident. Two additional States, Arizona and Oregon, reported per capita budgets in excess of 10 cents.

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Noise control budgets were reported by 140 communities, or 25 percent of the 562 communities responding to the 1978 survey. In the 1974 survey, . 46 communities, or 26 percent of the 184 communities responding provided budget data. Overall, the local noise control budgets increased from about \$1.9 million in 1973 to about \$2.7 million in 1977, an increase of over 40 percent.

### Instrumentation and Equipment

Only 24 States and 174 communities possess one or more sound level meters, the basic instrument for making noise measurements. More States and communities are purchasing, however, sophisticated pieces of equipment such as outdoor monitoring systems, frequency analyzers, and graphic level recorders. Such equipment is being used for noise monitoring surveys and to substantiate enforcement cases in court.

Forty States responded to the survey. Budget data only were obtained for four additional States.

Although a number of communities have noise legislation, many of these lack noise measurement equipment for enforcement. Analysis of survey responses in 1977-78 also reveals 133 communities enforcing their noise legislation without any noise measurement equipment. Without measurement capability, enforcement efforts remain minimal. The 1977-78 survey results clearly demonstrate that unless existing legislation is supported by measurement capability, current programs cannot be effectively carried out.

NOISE PROGRAM PERSONNEL

# Survey Coverage .

In the 1978 survey, States and communities were requested to provide the number of personnel affiliated with their noise programs, categorized by position and training and percentage of their time devoted to noise control.

Twenty-eight States and 285 communities reported personnel associated with noise control activities in 1977. Table 4-1 lists the number of personnel by State and percent of time devoted to noise activities. The percentage of time State and local personnel spent on noise control activities was broken down into two categories: more than 20 percent and less than 20 percent. Table 4-2 lists the aggregated number of personnel reported by responding States by position category and percentage of time devoted to noise activities. The number of States with personnel in each position category is also shown. Table 4-3 presents reported local personnel data using a similar format.

### State Noise Control Personnel

Of the 40 responding States and Territories, 17 States, including Puerto Rico, reported personnel who devoted at least 20 percent of their time to noise control activities in 1977 as shown in Table 4-1. In addition, 12 States had at least one person who devoted some time to noise functions in the State. Twelve other States and Territories did not report even one part-time person engaged in noise activities. The number of personnel, if any, in the 12 States which did not respond to the survey, is uncertain. Figure 4-1 shows the regional distribution of the State noise control personnel. Noise control personnel totalled 288, with 67 persons spending at least 20 percent

TABLE 4.1

NUMBER OF PERSONNEL BY STATE AND PERCENTAGE OF TIME DEVOTED TO NOISE CONTROL ACTIVITIES, 1977

State	At Least 20 Percent	Less Than 20 Percent	Number of Persons <sup>a</sup>
Alabama	-	2	. 2
Arkansas	-	140=	140
Arizona	3	1	4
California	9	18	27
Delaware	} -	1	1
Florida	2	4	6 ·
Georgia	1	1	2
Hawa i i	8	2	10
Illinois	4	-	4
Indiana	-	2	2
Kentucky	2		2
Louisiana	] - ]	1	1 .
Maryland	2	•	2
Massachusetts	4	•	4
Michigan	1 1	ь	1
Minnesota	13	•	13
Mississippi	-	20*	20
Montana		2	2
Nebraska	] - ]	1	1
New Jersey	4	6	10
New York	2	•	2
North Dakota	] 1 ]	1	2
Ohio	-	1	1
Oregon	6	9	15
Puerto Rico	4	2	6
South Carolina	- (	1	1
Tennessee	-	1	1
Texas	-	5	5
Washington	11	<u>-</u>	1 .
TOTAL	67	221	288

<sup>&</sup>lt;sup>a</sup>Total number of personnel who devote some time to noise control activities.

Question 6A. "Please (list) each individual who devotes at least 20% (less than 20%) of his/her time to noise control activities, using the position codes indicated below."

<sup>&</sup>lt;sup>b</sup>200 conservation officers enforce snowmobile noise regulations.

<sup>\*</sup>Police department personnel.

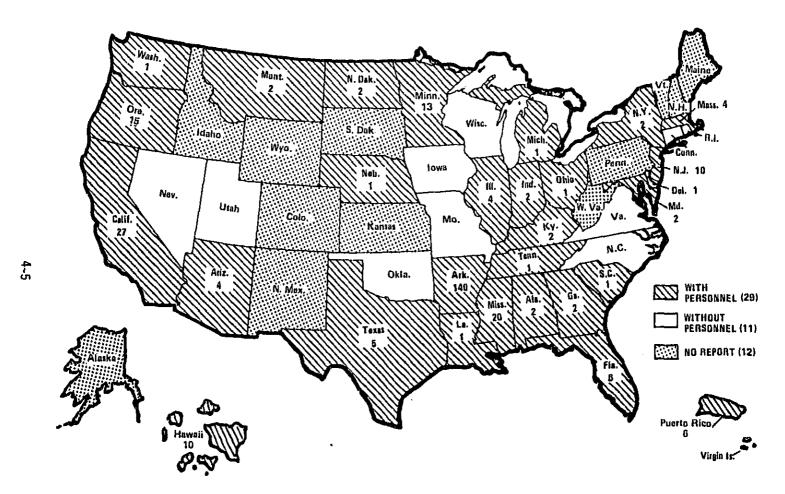


FIGURE 4-1. STATE NOISE CONTROL PERSONNEL, 1977

of their time and 221 persons spending some time but less than 20 percent of their time on noise control activities.

Table 4-2 shows the number of personnel by position category at the State level and the number of States who had at least one person in each of these positions. It is evident from this table that the position categories cited by the greatest number of States are the Pollution Control Program Director and Environmental Specialist. The prevalence of these two categories within many State programs may be attributable to the application of manpower from other environmental areas (e.g., air and water pollution programs) to noise control efforts. Since a number of States have just recently passed legislation, the persons in these two categories have been given the responsibility to set up noise strategies within States and plan the details of the noise effort. This may account for a sizeable number of these particular categories. It also apparently reflects the emphasis at the State level on development of regulations and/or legislation as well as provision of expert guidance to communities.

Trends (1977 vs. 1973). In 1973, 42 percent of the States responding to the survey had at least one full- or part-time noise personnel position. In the 1978 survey, this number had jumped to 70 percent. Over the four years between the surveys, the number of States reporting noise control personnel increased from 19 to 28 and the number of personnel who spend more time on noise control activities increased sharply from 105 to 275, an increase of 170 personnel. Nearly all of the increase (162 persons) is accounted for by the two States (Mississippi and Arkansas) which reported enforcement of noise ordinances by State police. Other positions to show increases are Pollution Control Program Director and Public Health Specialist/Industrial Hygienist categories. The number of personnel reported in the Environmental Technician/Inspector category declined sharply as did that in the Engineer and Clerical categories. These trends indicate the maturing of the State programs with less emphasis on inspections (except enforcement activity by police) and increased emphasis on program direction and assistance to local communities.

TABLE 4-2 STATE PERSONNEL BY POSITION CATEGORY, 1973 and 1977

Position Category	19	73	<u> </u>	19	77	
	Number of Persons	Number of States <sup>a</sup>	At Least 20 Percent	Less Than 20 Percent	Number of Persons	Number of States <sup>a</sup>
Pollution Control Program Director		_	11	8	19	15
Environmental Specialist	15	10	10	8	18	13
Engineer	18	6	10	3	13	8
Physical Scientist	_	-	1	8	9	3
Public Health Specialist or Sanitarian; Industrial Hygienist	7	2	9	14	23	7
Urben Planner; Land Use . Analyst	1	1	-	-	_	_
Attorney	-	-	1	1	2	2
Environmental Technician or Inspector	35	5	2	1	3	3
Police	16	2	2	178	178	4
Clorical or Secretarial	11	10	5	-	5	4
Other	2b	2	3	2	5	4
Total Parsonnel	105		64	221	275	
Number of States Reporting Personnel		19				28

a Number of States reporting personnel in category

Question 6A. "Please (list) each individual who devotes at least 20% (less than 20%) of his/her time to noise control activities, using the position codes indicated below."

b Includes administrative personnel

#### Communities' Noise Control Personnel

Five hundred and sixty-two responses to the 1978 survey were received from communities. Out of this number, only 67 communities reported having personnel who specifically devote 20 or more percent of their time to noise control activities. A total of 142 local noise control personnel are distributed in various positions, as shown in Table 4-3. In addition, there are 218 communities with as many as 5,456 part-time staff members who devote some time, less than 20 percent, to noise control efforts.

Position Categories. As is evident from Table 4-3, of the personnel who devoted at least 20 percent of their time to noise control efforts in 1977, the three professional categories with the largest number of assigned personnel were Public Health Specialist/Industrial Hygienist, Engineer, and Environmental Technician/Inspector. In the less than 20 percent category, the large number of police overshadows all other job categories. Almost 80 percent of the personnel working in noise-related activities at the local level are police engaged in the enforcement of noise control ordinances, investigating complaints, etc. Most are engaged in motor vehicle noise enforcement. Motor vehicle noise, as previously discussed, is the most wide-spread noise problem. It is also the source that has caused the development of the most noise control legislation and is the most frequently enforced. Police have the power to pursue motor vehicle noise offenders, pull them over to the side of the road and issue noise citations. It is often one part of their many responsibilities in law enforcement.

Figure 4-2 shows the relative distribution of noise control positions at the State and local levels in 1977. At both the State and local levels the Police category dominates all others. Public Health Specialist/Industrial Hygienist is the second largest category at both State and local levels. Personnel in this category are about eight percent of the total personnel at State and local levels. The third most dominant position at the State level is in the Pollution Control Program Director category while at the community level it is in the Engineer category.

TABLE 4-3
COMMUNITY PERSONNEL BY POSITION CATEGORY, 1973 AND 1977

	1973		1977			
	Number of	Number	Number of Persons			
Position Category	Persons	At Least 20 Percent	Less Than 20 Percent	of Persons		
Pollution Control Program Director	7	15	47	62		
Environmental Specialist	29	17	54	71		
Engineer	35	21	161	182		
Physical Scientist		3	4	7		
Public Health Specialist or Sanitarian; Indus- trial Hygienist	35	30	435	464		
Urban Planner; Land∙Use Anaiyst	16	7	114	121		
Attorney	5	0	24	24		
Environmental Technician or Inspector	74	22	99	120		
Police	18	15	4357	4372		
Clerical or Secretarial	20	6	21	27		
Other	6	6	140	146		
Building Inspector	15	_	_	-		
Total Personnel	260	142	5456	5598		
Total Lass Polica	242	127	1099	1226		
Number of Communities	59	67	218	285		

Question 6A. Please (list) each individual who devotes at least 20% (less than 20%) of his/her time to noise control activities, using the position codes indicated below."

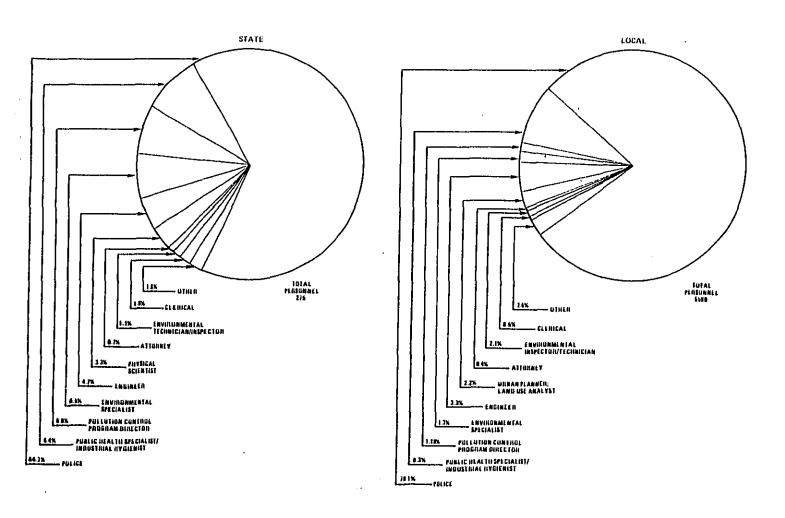


FIGURE 4-2. DISTRIBUTION OF NOISE CONTROL PERSONNEL POSITIONS AT STATE AND LOCAL LEVELS, 1977

Question 6A. "Please (list) each individual who devotes at least 20% (less than 20%) of his/her time to noise control activities, using the position codes indicated below."

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Trends (1977 vs. 1973). The number of communities surveyed in 1978 was much larger than in the 1974 EPA survey. Therefore, a direct comparison between surveys is not entirely accurate. However, there are indications that there are a rapidly growing number of communities which have assigned personnel to noise control activities. In 1973, 59 communities responding to the survey had at least one full- or part-time noise personnel position. In 1978, this had increased to 285 communities. Unfortunately, there are communities whose noise control activities have been reduced or terminated (e.g., Boston) causing a reduction in personnel. In some cases, after the program has been operational, responsibilities have shifted to part-time personnel.

As indicated in Table 4-3, there has been a dramatic increase in the reported number of police who work part-time on noise enforcement. The number of personnel in the Public Health Specialist/Industrial Hygienist category also increased sharply between 1973 and 1977, reflecting perhaps the increased awareness of occupational noise hazards and the addition of these personnel to local health departments to handle the air and water pollution problems. This probably reflects the formalization of noise programs at the local levels and the designation of at least part-time noise program directors.

Table 4-4 shows the relative ranking of the top six position categories cited in the 1978 survey compared to the rankings in 1973. In 1977, the most frequently cited position category was Police, followed by Public Health/Industrial Hygienist and Urban Planner/Land-Use Analyst. In 1973, the position cited by the greatest number of communities was that of Environmental Specialist, closely followed by Environmental Technician/Inspector. These shifts in the position categories are to be expected as the communities move from program planning to program implementation with its emphasis on inspections, enforcement, and land use planning.

## Fields of Experience

The 1978 survey requested information on the fields of experience of those personnel who devote at least 20 percent of their time to noise program activities. Comparable data was not requested in the 1974 survey. A

TABLE 4-4

RANK OF POSITION CATEGORIES USED IN COMMUNITY NOISE PROGRAMS

1977 vs. 1973

Rank in 1977	Number of Communi- ties <sup>a</sup>	Position Category	Rank in 1973	Number of Communi- ties
1	102	Police	8	7
2	86	Public Health/Sanitarian/ Industrial Hygienist	3	16 .
3	62	Urban Planner/Land-Use Analyst	5	14
4	61	Environmental Specialist	1	18
5	. 55	Environmental Technician/ Inspector	2	17
6	52	Engineer	6	13

aNumber of communities reporting personnel in position category shown.

Question 6A. "Please (list) each individual who devotes at least 20% (less than 20%) of his/her time to noise control activities, using the position codes indicated below."

Analysis of responses.

summary of the 1978 survey is presented in Table 4-5 for both State and community personnel. Forty-seven percent of the community personnel and 37 percent of the State personnel are either engineers or environmental scientists. Experience in the field of acoustics is lacking; only two percent of the State and four percent of the community personnel indicated that their experience is primarily in acoustics.

TABLE 4-5

FIELD OF EXPERIENCE OF STATE AND COMMUNITY PERSONNEL WHO DEVOTED AT LEAST TWENTY PERCENT OF THEIR TIME TO NOISE CONTROL ACTIVITIES, 1977

Field of Connelsons	Cont	unity	State		
Field of Experience	Number	Percent	Number	Percent	
Engineering	31	22	17	31	
Acoustics	5	4	1	2	
Physical Science	3	2	3	6	
Environmental Science	35	25	3	6	
Medical Science	1	1	2	4	
Stological Science	9	6	3	5	
Public Health Science	15	11	1	2	
Social Science	3	2	2	4	
LAW .	2	1	ţ	2	
Police	13	9	•	•	
Community Planning	6	4	3	6	
Transportation Operations	1	1 [	-	-	
Safety Operations	2	1	-	•	
lot Classified	15	11	18	33	
Total	142	100	54	100	

Question 6A. "Please (list) each individual who devotes at least 20% (less than 20%) of his/her time to noise control activities, using the position codes indicated below."

Analysis of responses.

## Problem Areas

Production Sec.

As will be discussed in a later section, the lack of an adequate number of trained personnel is a critical factor in the State and local noise control activities. As indicated in Table 4-6, almost half of the 40 responding States indicate they enforce noise control laws, but only 12 States reported personnel who devote at least 20 percent of their time to noise control activities. Similarly, of the 328 communities that enforce their noise laws, only 55 have personnel who devote 20 percent or more of their time to noise control activities. Clearly, manpower is a critical factor.

TABLE 4-6

PERSONNEL STAFFING COMPARED TO ENFORCEMENT OF NOISE CONTROL LAWS, 1977

Enforcement	Number o	f States Which:	Number of Communities Which:		
Personne1	Enforce	Don't Enforce	Enforce	Don't Enforce	
At least 20 percent of time on noise control	12	4	55	12 .	
Part-time on noise control but less than 20 percent	3	9	167	51	
No personnel reported	2	10	106	170	
Total	17	23	328	233	

Question 5A. "Does your government enforce the noise control provisions?"

Question 6A. "Please (list) each individual who devotes at least 20% (less than 20%) of his/her time to noise control activities, using the position codes indicated below."

The second 
#### STATE AND COMMUNITY NOISE CONTROL BUDGET ALLOCATIONS

Adequate funding is crucial to the development and implementation of an effective noise control program. Such a program requires establishing a fiscal budget for the necessary resources, including personnel and equipment. Without initial appropriations to get a new program off the ground once legislation is enacted, and without a sustained level of funding to operate the program once initial standards, criteria, and administrative procedures have been established, noise control efforts will be undermined.

The 1978 EPA survey requested a breakdown from the States and communities of their specific noise control program budgets related to each program activity. This section provides a summary of the budgetary data reported by the States and communities and compares the 1977 budgets for noise control with those reported for 1973 under the previous EPA survey.

#### State Noise Program Budgets

**-** !

Nineteen States and Puerto Rico, of the 44 States and Territories responding to the 1978 survey, budgeted funds for noise control activities in 1977. In the 1974 survey, budget data was provided by 16 of the 45 responding States and Territories. Table 4-7 lists the States which provided budget data for 1973 and/or 1977 and their noise control budgets both in total amounts and on a per capita basis. The per capita data (in cents) are based on 1970 census figures and are used as a comparative index since they standardize the budgets for variations in population. The noise control budgets and per capita data for all the States and Territories which responded to either the 1974 or 1978 surveys are listed by EPA region in Appendix B.

California's \$1.6-million 1977 budget ranks first among the responding States. Seven of the 20 States (including Puerto Rico) reported budgets in excess of \$100,000. The total amount budgeted for noise control in 1977 was \$3.6 million. The average noise control budget for the 44 responding States was approximately \$81,000. This was the equivalent on a per capita basis of about 1.9 cents per resident. Figure 4-3 shows the geographical distribution of per capita funds budgeted for noise control activities in 1977.

TABLE 4-7 STATE BUDGETARY DATA, 1973 AND 1977

			19.3				1977	
State	1970 Population	Budget (1)	Parcent	Per Capita (a)	Budget (1)	Percent	Per Capita (c)	Change from
Artizona	1,770,300	1,500	٥,١	0.1	219,000 4	5,9	12,1	+ 213,500
California	19,945,715	1,348,8004	67.7	0.8	1,645,000	45.3	0,3	+ 296,200
Connecticut	3,031,709	0	-	0.0	21,353	0,7	0,8	+ 24,353
Florida	5,769,443	45,000	2,3	0.7	93,000	2,6	1,4	+ 48,000
Georgia	4,589,575	o	-	ი,ა	22,000	0.6	٥,5	+ 22,000
Hawail	768,561	56,491	2.3	7.3	155,132	3,7	17,6	+ 78,641
Illinois	11,109,935	200,000	10,0	1,8	304,450	G,4	2,7	+ 134,400
Indiana	5,193,669	ąβ		•	19,270	1,1	6,0	+ 39,270
Kansas	2,249,071	1,925	0.1	0,1	Hat Reported		i -	Unknown
Kentucky	3,218,706	oc	-	-	92,075	2.5	2.9	+ 92,075
Louisiana	3,643,180	4,650	0,2	0.1	o	0.0	0.0	- 4,650
Naryland	3,922,399	0	-	0.0	24,000	0,7	0,6	+ 24,000
Massachusetts	5,689,170	23,860	1.2	0,4	400,000	11.0	2.0	+ 376,200
Michigan	8,875,083		-	0.0	164,935	4.5	1,9	+ 164,935
Minnesota	3,806,103	Not Reported	•	-	53,000	1.5	1.4	+ 53,000
Montana	694,4:19	2,000	0,1	0.3	3,000 .	0,1	0,5	1,000
Nevada	488,738	127	-	0.03	0	0,0	0.0	- 127
New Hampshire	737,861	0	-	0.0	810	0.0	0.1	+ ato
New Jersey	7,268,164	89,900	4,5	1.3	75,000	2,1	. 1.0	- 14,900
tiow York	18,236,951	147,800	7,4	0.8	50,000	1.4	C.3	- 97,800
North Carolina	5,082,959	7,000	0,4	.1	٥	0.0	0,0	- 7,000
Ok lahoma	2,559,253	1,000	0,1	0.04	0	0.0	0.0	- 1,000
Oregon	2,091,385	44,300	2,2	2,1	215,600	5.9	10.3	+ 171,300
Puerto Rico	2,719,000	0	-	0,0	47,077	1.3	1.7	+ 47,077
South Carolina	2,590,516	16,800	0.0	.7	700	-	0.0	• 16,100
Washington	3,409,163	G	-	0,0	000, 00	8.0	J.9	+ :0,000
TOTALS		\$1,991,093	100		33,638,952	100		+ 1,643,759

<sup>4</sup> Excludes one-time expenditure of \$11,000,000 for construction costs for a school noise attenuation program.

Tenta Barriera Commission Commiss

Question 8A. "Please provide a breakdown of your ourrent noise control program budget. If budgetary breakdowns are not available, provide a figure for the total allocation."

and the second 
<sup>&</sup>lt;sup>b</sup> No funds budgeted in 1973 or 1974; \$20,000 projected for 1975.

<sup>&</sup>lt;sup>c</sup> No funds budgeted in 1973; \$20,000 projected for 1974.

d includes \$165,000 for barriers. Other states may not have included such expenditures.

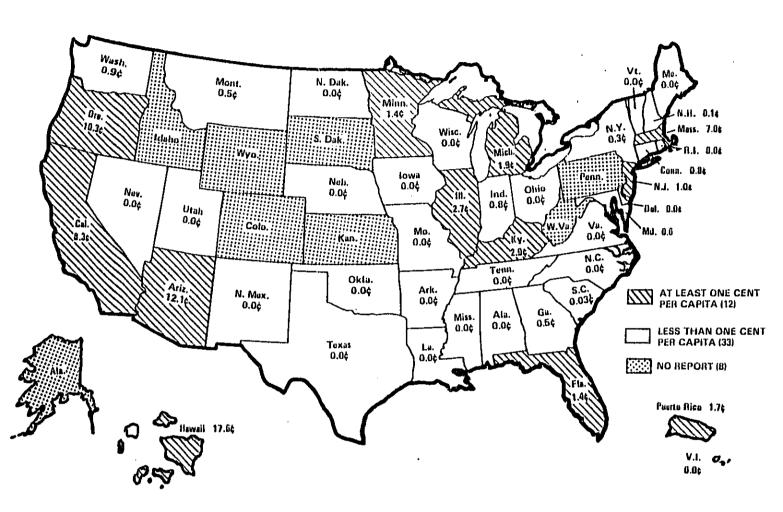


FIGURE 4-3. STATE PER CAPITA BUDGETS FOR NOISE CONTROL, 1977

On a per capita basis, Hawaii ranks first among the reporting States, with a planned expenditure of 17.6 cents per resident. Two additional States, Arizona and Oregon, reported per capita budgets in excess of 10 cents. A total of 11 States had per capita budgets of one cent or more as shown in Figure 4-3.

Trends. The number of States and Territories reporting a noise control budget increased from 16 in 1973 to 20 in 1977, an increase of 25 percent. Overall, the budgets for the reporting States increased from about \$2.0 million in 1973 to approximately \$3.6 million in 1977, an increase of \$1.6 million, or 20 percent per year, over the four-year period. As can be seen in Table 4-7, budgets of seven States decreased while the budgets in ten States increased. In addition, six States which did not report budget data in 1973 reported budgets for noise control in 1977. Kansas, which reported a budget of \$1,925 in 1973, did not respond to the latest survey. The average per capita budget for noise control activities of the States responding to the survey increased from about 1.2 cents in 1973 to about 1.9 cents in 1977.

#### Community Noise Control Budgets

Noise control budgets were reported by 140 communities, or 25 percent of the 562 communities responding to the 1978 survey. In the 1974 survey, 46 communities, or 26 percent of the 184 communities responding, provided budget data. Overall, the noise control budgets of the reporting communities increased from approximately \$1.9 million in 1973 to about \$2.7 million in 1977. Appendix C lists, by EPA region, the budgets and per capita data for the communities that reported noise control budgets in 1973 and/or in 1977.

<u>Discussion and Analysis</u>. There is a large variation in budgeted funds and planned per capita expenditures among the responding communities. This variation reflects different stages of noise program development. The inaccuracy of budget estimates based on the part time use of police and other municipal employees should also be noted. New York City had the largest 1977 budget (\$250,000). Only five other cities reported budges of \$100,000 or more:

<sup>1</sup> Information provided by EPA regional representative.

Chicago, Illinois; Los Angeles and Long Beach, California; New Rochelle, New York; and Salt Lake City, Utah.

The communities with a noise control budget of \$10,000 or more and/or planned per capita expenditures for noise control activities of 15 cents or greater in 1973 and/or 1977 are listed in Table 4-8. In the 1974 survey, 20 communities reported budgets for noise control of \$10,000 or more, and in 1978, 55 communities reported budgets of \$10,000 or greater. Of these, 43 had populations in excess of 75,000 (which was the basis for the earlier survey), providing some indication that more communities are allocating funds for noise control activities.

Thirty-seven communities reported per capita budgets of 15 cents or more in 1977 compared to only eight communities in 1973, as shown in Table 4-8. Twelve of the 37 communities are in California. The higher per capita expenditures in this area reflect the concentration of well-established noise control programs in the State. There is some evidence that 15 cents per capita for noise control may be an adequate funding level for carrying out a comprehensive noise control program. However, several communities with established noise control programs have allocated less, others considerably more, depending on the severity of local noise conditions and the extend of citizens commitment to noise control and abatement.

On a per capita basis, New Rochelle, New York, ranks first among the 562 responding communities, with planned expenditures of about \$1.33 per resident. Olympia, Washington, ranks second with per capita expenditures of \$1.20. At the other end of the spending scale, Oakland, California, reported a 1977 per capita figure of about 0.1 cents, and 422 of the responding communities did not have a noise control budget in 1977.

Trends. From the limited data available, there is evidence that a number of communities are increasing their budgets for noise control activities. A comparison of the budget data of the communities responding to both the 1974 and 1978 surveys reveals that budgets were increased in 20 instances and decreased in 16 others. Those communities are listed in Table 4-9. Another indication is evidenced by the fact that 21 communities with populations greater

EPA Region/Community	Budget	973 Per Capita	Budget	1177
,	\$	Per Capita	\$	Per Capital
Region I		ļ		1
Boston, MA	31,000	4 81	10.500	2.8 73.9
Lameson, ME	NR		10,000	33.9
legan (f	1	ĺ	Í	1
Martin County, NY	41,290	2.9	NA	
Transm. NJ New Rochells, NY New York, NY	NA 751	10	75,000 100,000	71.7
New York, NY Baltimore, MQ	960,000 \$7,987	120 #4	250,000	1.2
ligian (f)				"
	NA		20,000	24.0
Wilmington, DE Allentown, PA	ů :	0.0	67,000	61 8
Primburgh, PA Arlington, VA	42,000	6.1	NR 15,600	1.7
Nortola, VA District of Columbia	1,200	04	24,000 43,200	18
		4.0	42,200	l "'
open IV				
Camerolle, FL Marce Basch, FL	NA NA	00	36,000 36,000	34.3 40.3
Muntsville, AL F1, Lauderdaig, F1,	···· a	0 C 0.0	10.000 10.000	13
Jacksonnile, FL	1,016	0.2	10,316	3.6
Columbut, GA	0	0.0	15,000	9.7
Hydra V			,,,,,,	
Liepnia, MI Saynaw, MI Akron, OH	1,520	0.0 1.7	15,204 19,680	16.6 21.4 15.9
Akron, OH Chicago, IL	700,500	0.0 6.1	43.900 127.356	16.9
Gary, IN	20,7754	11.8	l Na	
Indianseelle, iN Grand Roestl, Mi Bloomington, MN	3,800	0.5 5 c/6	38,370 36,614	1.3 13.5
Bigomospon, AN Minnespole, MN	NR 10,311	14	43.200 10.000	52.7 2.2
Missaine, W	12,294	1.7	26.883	55
pan VI				
Okishema City, DK Norman, DK	17,279 NR	4.7	22,000 18,000	6.3 34.6
Allaguerque, MM	( NR		20.869	
Mouston, TX	20,450	0.0	24,733	3.0
pen VIII *	1			
Pracie Villegt, KA Lincoln, NE	N/II 60004	1.3	25,000 26,850	86 T 17.3
çen VIII	[ [	ĺ		
Aurera, CO	29,000	52.13	840	0.6
Baulder, CO Colerade Barings, CO	41,000	30.37	38,000 47,847	53 A 35.4
Deneal, CO	1 1	0.0	37.260	7.2
Grand Forbs, NO Sals Lake City, UT	NA NA	ļ	000,000 000,007	23.5 14.9
en IX	1 1	ł		l
Franc, CA	3,480	2.1 0.0	21,000	120
Assheim, GA Culver Gity, GA Frament, GA	NA C	j	26.000 6.000	16.1 16.9
Fromont, CA Instrument, CA	\$1,400	0 0 57-1	20,000	18.4 38.0
Ingressel, CA Long Beeth, CA Monte Part, CA Masteris, CA Lot Angille, CA	HR HR	***	34,800 104,881 8,800	29.6
mente FPA. GA Medicio, CA	I AR I		11,150	31.8 18 0
Los Anglist, CA Ontaria, CA	92,500 NR	1.3	100,000	3.6 79.4
Parameters, CA	NA .		16.300	49.8
Ban Diego, CA Santa Menios, GA Bania Rata, CA	13,754	0.0 18.63	99,300 AN	7.2
Santa Rate, CA	NR NR		20,000 D08.8	40.1
Semi Valley, GA Tarrames, GA Pasalans, CA	22,470 1,377	17.5	40,006	15.7 29.7
Pmodens, CA Siechton, CA	1,377 28,486	1.1	10.000 NM	§.8
Sisehten, CA Phoenis, AR	]	0.0	•	22.2
en X			}	
Ancherigo, AX Eugano, OR	MR.	0.0	40.000 12.940	43.1 17.0
Persiated, OA	187,500	aii	61,700	18.2
Ecoratt, WA Clympa, WA	NA NA		12,860 30,000	34.2 120.0
Seattle, WA	86,000	12.4	64,200	28.7

N.H. - Pin response required, jost their 78,000 projectors.

1874 judget adunate; no more control budget in 1873.

# TABLE 4-8

COMMUNITIES WITH NOISE CONTROL BUDGETS OF \$10,000 OR MORE OR 15 CENTS OR MORE PER CAPITA BUDGETED FOR NOISE CONTROL, 1973 AND 1977.

Question 8A. "Please provide a breakdown of your current noise control program budget. If budgetary breakdowns are not available, provide a figure for the total allocation." than 75,000 which did not have a budget for noise control in 1973 reported noise control budgets in 1977. These communities are also listed in Table 4-9. However, considering all cities over 75,000 in population, there was a net decrease in funding as shown in the table, due to the large decreases in New York City and Chicago noise control budgets.

## Total Funds Allocated for Noise Control Programs

The total reported State and community budgets for noise control activities in 1977 was \$6.2 million compared to \$3.9 million in 1973. A comparison of the 1973 and 1977 reported budgets is shown in Table 4-10.

Table 4-10 indicates that the reported amount budgeted by the States and communities increased about 60 percent between 1973 and 1977. As indicated in this table, the funds budgeted in 1973 for noise control activities were almost evenly divided between the States and communities. In 1977, the States accounted for 57 percent of the total.

Table 4-11 provides a summary of State and local 1977 budgets for noise control by EPA region. As would be expected, the States and communities with the largest per capita budgets generally are located where there are large indus-rialized metropolises and transportation centers. None of the States in Regions VI and VII had budgeted funds for noise programs. However, the larger urban areas in these regions have funded programs (e.g., Houston, Oklahoma City, Omaha).

The increasing trend in funding for noise control activities is clearly evident in Figure 4-4. Per capita planned expenditures in 1973 for the 16 States reporting noise control budgetary data in 1973 was 1.2 cents. In 1977, per capita planned expenditures reported by 20 States was 1.9 cents, or nearly 60 percent greater than the 1973 planned expenditures. Per capita expenditures at the local level increased to 6.8 cents from 5.7 cents, or about 30 percent, during the same period.

TABLE 4-9
COMMUNITIES WHICH INCREASED, INITIATED, OR DECREASED
THEIR NOISE CONTROL BUDGETS
BETWEEN 1973 AND 1977<sup>a</sup>

CITY AND STATE	CHANGE S	PERCENT
INCREASED BUDGET		
Colorado Springs, CO	6,847	17
Columbia, SC	3,080	145
Fresno, CA	16,520	475
Grand Rapids, MI	16,614	166
Houston, TX	14,283	137
Indianapolis, IN	35,470	933
Jacksonville, FL	17,300	1704
Kenosha, WI	7,550	1079
Los Angeles, CA	7,500	8
Milwaukee, Wi	14,595	119
Norfolk, VA	22,800	1900
Oakland, CA	90	82
Oklahoma City, OK	5,721	33
Pasadena, CA	8,723	683
Pasadena, TX	147	42
Saginaw, MI	18,160	1195
Seattle, WA	33,200	50
Tampa, FL	4,504	164
Torrance, CA	16,522	70
Tuisa, OK	1,080	37
SUBTOTAL	250,706	
INITIATED BUDGET		
Akron, OH	43,900	100
Allentown, PA	67,000	100
Angheim, CA	25,000	100
Arlington, VA	15,800	100
Columbus, GA	15,000	100
Denver, CO	37,280	100
Eugene, OR	12,980	100
Evansville, 1L	8,878	100
Freemont, CA	20,000	100
Ft. Lauderdale, FL	10,000	100
Hammond, IN	4,250	100
Huntsville, AL	10,000	100

Only those communities which had a population of 75,000 or more in 1970 are included.

Question 8A. "Please provide a breakdown of your current noise control program budget. If budgetary breakdowns are not available, provide a figure for the total allocation."

Analysis of responses.

TABLE 4-9 (CONTINUED)

CITY AND STATE	CHANGE S	PERCENT
INITIATED BUDGET (Cont'd.)		
Livonia, Mt	18,206	100
Newark, NJ	10,000	100
New Haven, CT	300	100
Norwalk, CT	635	100
Pawtucket, R!	1,000	100
Rockford, IL	1,500	100
San Diego, CA	55,300	100
Toledo, OH	4,800	100
Washington, DC	43,200	100
SUBTOTAL	405,027	
DECREASED BUDGET		
Aurora, CO	38,430	98
Austin, TX	3,750	100
Boston, MA	12,500	40
Bridgeport, CT	2,275	100
Charlotte, NC	75	100
Chicago, IL	79,345	38
Flint, MI	160	100
Inglewood, CA	16,500	32
Kalamazoo, MI	450	100
Lakewood, CA	3,574	95
Lakawood, CO	31,842	99
Minneapolis, MN	319	3
Montgomery, AL	560	100
New York, NY	700,000	74
Portland, OR	105,800	63
San Antonio, TX	4,018	100
SUBTOTAL	1,012,098	
Not Decrease	356,365	

TABLE 4-10
SUMMARY OF STATE AND COMMUNITY NOISE CONTROL BUDGETS, 1973 AND 1977

Noise Control Budgets	1973 S	1977 S	
State	1,991,093 (16) <sup>a</sup>	3,581,352 (20)	
Community	1,903,358 (45)	2,651,074 (140)	
Total	3,894,451	6,232,426	

Numbers in parentheses are numbers of States/communities reporting noise control budgets.

Question dA. "Please provide a breakdown of your owerent noise control program budget. If budgetary breakdowns are not available, provide a figure for the total allocation."

\* Analysis of responses.

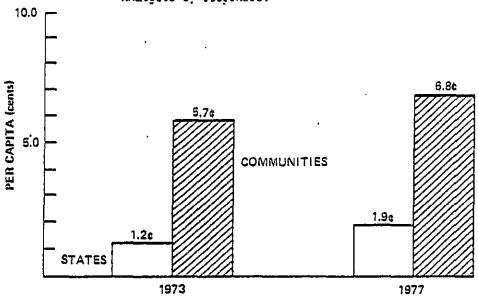


FIGURE 4-4. STATE AND COMMUNITY PER CAPITA SUDGETS FOR NOISE CONTROL ACTIVITY, 1973 AND 1977

The total population of the 20 States reporting a noise budget in 1977 was about 112 million, or about half the population of the United States. Although considerable progress has been made between 1973 and 1977, it is clear that funding for noise control activities falls far short of being adequate. Some of the noteworthy programs as well as problems are highlighted below.

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TABLE 4-11
SUMMARY OF STATE AND COMMUNITY NOISE CONTROL BUDGETS
BY EPA REGION, 1978

		Stat	es	Commu	nities	
EPA Region	States	Budge t S	Per Capita <sup>a</sup> c	Budget S	Per C	apita <sup>a</sup> c
I.	ME, NH, VT, MA, RI, CT	425,163	3.6 (3) <sup>b</sup>	31,635	2.3	(8) <sup>b</sup>
II.	NY, NJ, PR, VI	172,077	0.61 (3)	368,850	3.9	(9)
III.	PA, MD, DE, WV VA, DC	24,000	0.3 (1)	175,000	10.8	(7)
IV.	NC, SC, TN, KY, MS, GA, FL	207,775	0.7 (4)	146,265	7.1	(12)
٧.	WI, IL, MI, OH, IN, MN	508,605	1.2 (3)	416,944	4.7	(29)
VI.	NM, OK, AR, LA, TX	0	0.0 (0)	96,327	4.1 -	(9)
VII.	NE, KS, IA, MO	0	0.0 (0)	70,373	4.3	(9)
VIII.	MT, ND, SD, WY, UT,	3,000	0.1 (1)	250,527	16.7	(15)
ıx.	CA, NV, AZ, HI	1,995,132	8.7 (3)	835,293	10.5	(35)
х.	WA, OR, ID, AL	245,600	4.5 (2)	259,660	22.5	(7)
	Total	3,581,352	1.9 (20)	2,651,074	6.8	(140

 $<sup>^{\</sup>rm a}$  Per capita budget data are based on all States and communities responding to survey (see Appendices 8 and C).

Question 8A. "Please provide a breakdown of your current noise control program budget. If budgetary breakdowns are not available, provide a figure for the total allocation."

Analysis of responses.

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Numbers in parentheses are number of States/communities reporting noise control budgets.

#### Noteworthy Programs

Among the States and communities reporting budgetary data, several were particularly significant either with respect to the total amounts of resources allocated for noise control activities or due to large increases in funding levels over the four-year period 1973-1977.

California ranked first among reporting States in overall planned expenditures and fourth in planned per capita expenditures. Their funds were allocated to the Office of Noise Control in the Department of Health for manpower (\$200,000); the California Highway Patrol for motor vehicle enforcement activities (\$375,000); the Department of Transportation for the Division of Highways (\$870,000); and the Division of Aeronautics (\$200,000).

Hawaii ranked first in planned per capita expenditures for noise control with 17.9 cents per capita. The reported 1977 budget totals \$135,132 and is over twice the amount spent in 1973. Their planned expenditures are for personnel (\$118,780) and operating expenses (\$16,352).

Arizona reported the largest increase in total budget and per capita expenditures for noise control. It increased from \$1,500 in 1973 to \$215,000 in 1977 while per capita expenditures are projected to jump to 12.1 cents from .08 cents in 1973. Funds will go for personnel (\$40,000), equipment/instruments (\$10,000) and barriers (\$165,000). It is possible that other States which were also constructing barriers during this period did not report such costs in the survey.

Among the reporting communities, New York City ranked first in 1977 for total funds budgeted for noise control. Norfolk, Virginia, reported the largest increase in planned expenditures over 1973 of those communities which responded to both the 1974 and 1978 surveys. The Norfolk budget for noise control increased 1900 percent from \$1,200 to \$24,000 over the four-year budget.

#### Problem Areas

Despite the increased number of States and communities with funded noise control programs, the lack of adequate funds is a major obstacle to the development, implementation, and enforcement of noise control programs.

Although the development and enactment of noise legislation represents a major hurdle (27 out of 50 States currently have noise laws), even a more difficult step is the establishment of a noise control program with a line item budget for noise control. This appears to be a major hurdle facing State governments, and may jeopardize the legislative intent and enforcement objectives. Despite the fact that 27 States have some laws with quantitative provisions, only 19 States and Puerto Rico have budgets for noise control to support this legislation. While it is most desirable to have a specific line item budget for noise control, other States and communities support some of their noise control activities with funds from sources other than noise control budgets. The line item budget accentuates the concern for noise control and reinforces the government's commitment to the cause.

As will be discussed below, an inadequate operating budget ranked second behind the lack of manpower as a major problem facing the States.

Over 150 communities who responded that noise is a growing concern in the community did not have a noise control budget in 1977. The magnitude of the funding problem is also indicated by the nearly 300 communities that have existing laws or ordinances which incorporate noise control provisions, yet do not have a noise control budget. Clearly there is a tremendous gap between the growth of the problem and the fiscal commitment to counteract its growth.

INSTRUMENTATION AND EQUIPMENT

#### Definitions

One of the objectives of the survey was to determine the quantity of sound instrumentation on hand for noise control programs. Sound instruments are necessary for noise monitoring and for the effective enforcement of noise control laws.

Noise instrumentation has been classified into nine categories:

Sound Level Meter -- Used to determine sound levels in decibels.
 The more expensive versions are capable of measuring peak levels from impulsive sources with a peak hold mechanism, and contain an octave-band filter set for frequency analysis. The less expensive versions measure A-weighted sound levels only.

- Microphone Calibrator -- Generates a constant high-level sound pressure level to ensure that the microphone is functioning properly.
- Sound Spectrum Analyzer -- Sometimes referred to as a frequency analyzer, and is used to determine the frequency content of a given noise. Octave-band, 1/3 octave-band, and narrow-band capabilities are available.
- 4. Amplitude Distribution Analyzer -- Measures the percentage of time that the sound level falls within a given decibel range.

  Data obtained are used to develop sound level histograms, and to determine levels exceeded for a given percentage of time.
- 5. <u>Graphic Level Recorder</u> -- Creates a permanent, reproducible record of the results of a measurement by means of scribing a line on a moving paper tape. As an accessory to sound and vibration instruments, it can portray the measured sound or vibration levels over periods of time.
- 6. <u>Vibration Meters and Accelerometers</u> -- Measure one or more of the following three parameters of a vibrating body: its acceleration, velocity, or displacement.
- 7. Magnetic Tape Recorder -- Creates a permanent reproducible record of a measurement by means of recording an electrical signal on a moving magnetic tape. As an accessory to sound and vibration instruments, it can be used to record sound or vibration phenomena over periods of time.
- 8. Real-Time Analyzer -- Provides a continuously varying display of the frequency content of a noise signal in real-time (i.e., as it occurs). This type of operation usually requires a parallel type of analyzer or some storage system. These units perform statistical analyses and store the results in memory for later retrieval. Complete octave, 1/3 octave, or narrow-band analyses may be performed by real-time analyses on a continuous basis.

9. <u>Community Noise Monitoring Systems</u> -- Calculate the day-night sound level, equivalent sound level, and various statistical distributions. Such self contained systems are extremely useful for monitoring over an extended period of time (24 hours or longer) without attendant personnel since they can accumulate and analyze large quantities of data.

#### Results

Table 4 12 identifies the types and quantity of instrumentation reported by States and local communities; sound level meters and microphone calibrators are the only items of instrumentation available in any significant quantity to the States and local communities. Twenty-four States and 174 communities have at least one sound level meter. Twenty-two States and 128 communities have at least one microphone calibrator. The data in Table 4-12 implies that there are two States and 46 communities using sound level meters possibly out of calibration due to the unavailability of calibrators. The validity of such measurements would be questionable, if this were the case. However, responding States and localities may have taken it for granted that sound level meters cannot be used without calibrators and therefore did not separate these instruments in their responses.

More States and communities than ever are purchasing more sophisticated, pieces of noise measurement and analysis equipment. In order to conduct the basic enforcement of property line/industrial legislation and vehicular noise legislation (the two most-often-found types of noise legislation), simple Type II sound level meters suffice. In the last couple of years, a number of communities have decided to include a time-weighted factor in their legislation. This usually requires equipment with greater analysis capabilities, such as the statistical analyzer, or more recently, the community noise monitoring equipment appearing in the market. Since advances have been made with smaller microprocessors, etc., this equipment is becoming less expensive.

In addition, dual purposes can be served by utilizing equipment such as community noise monitoring systems in measuring community noise levels for base-line surveys, trends, and land use planning as well as for enforcement. Many more

TABLE 4-12
STATE AND LOCAL SOUND MEASUREMENT AND ANALYSIS INSTRUMENTATION

Instrument Quantity	Sound Level Meters	Microphone Calibrators	Sound Spectrum Analyzers	Amplitude Distribution Analyzers	Graphic Level Recorders	Vibration Meters & Accelerom- eters	Magnetic Tape Recorders	Real-Time	Community Noise Monitoring Systems
State Respo	ndents						·		
1	1	1	8	10	12	6	7	. 7	9
2	3	2	5	ן	4	0	3	0	1
3 or more	, 20	19	4	1	1	1	4	0	3
Local Commu	nity Resp	ondents					,		
1	106	76	39	10	30	11	21	4	18
2	39	28	4	2	4	0	11	Ò	3
3 or more	29	24	3	0	0	1	6	2	5

Entries are numbers of States or communities having indicated quantity of instruments.

Question 9A. "For each instrument or piece of equipment listed below, please indicate the quantity currently on hand for your noise control program."

tape recorders and graphic level recorders are being used to obtain permanent records where enforcement violations are being contested in court. For example, St. Louis County has never lost a noise enforcement case since these recordings became part of all enforcement proceedings.

For the most part, where noise legislation contains maximum noise levels not to be exceeded, simple sound level meters are adequate. Overall, different types of noise legislation will require different instrumentation. Thus, equipment requirements should be a decisive factor in the type of noise legislation developed.

## Analysis

The quantity of equipment possessed by communities was compared with the legislative and enforcement results in an attempt to find correlations between these factors. There is a definite relationship between the stage of noise program development and the type and quantity of noise instrumentation. Ninety-one communities that have noise legislation with specific performance requirements and are enforcing their legislation reported having at least one sound level meter. A sound level meter is the fundamental piece of enforcement equipment. Fourteen communities with no program (neither legislation nor enforcement) have sound level meters, and a few of these communities also have other instrumentation to do statistical analysis. It is possible that these communities have proposed legislation and the instruments were used to conduct baseline surveys and to assist in the development of responsive legislation.

Table 4-13 shows that there are 200 communities (55 percent of those responding to the question) having some type of noise legislation but not any equipment on hand. This could be due to the fact that some of these communities only have nuisance-type legislation, and hence do not require sound instruments. Only with quantifiable noise legislation, however, and the enforcement of this legislation with approved equipment, will enforcement citations stand up in court. It is also interesting to note that there are 22 communities that have instrumentation but no legislation.

Table 4-14 presents the number of communities with equipment as a function of law enforcement. There are 129 communities enforcing their noise legislation with this equipment. However, there are 133 communities that

TABLE 4-13

NUMBER OF COMMUNITIES WITH EQUIPMENT AS A FUNCTION OF THE EXISTING LAWS

Quantity of Equipment	Are There Existing Laws?				
- cda i billetta	Yes	No			
0	200	99			
≥1	166	22			

TABLE 4-14

NUMBER OF COMMUNITIES WITH EQUIPMENT
AS A FUNCTION OF THE NOISE LAW ENFORCEMENT

Quantity of	Do You	Enfo	rce	Noise	Laws?
Equipment	Yes	•		No	
0	133			117	
<u>≥</u> 1 ·	129		1	30	

TABLE 4-15

NUMBER OF COMMUNITIES WITH EQUIPMENT
AS A FUNCTION OF THE ENFORCEMENT PROBLEM
DUE TO INADEQUATE INSTRUMENTATION

Quantity of Equipment	Significance of Enforcement Problem Due to Inadequate Instrumentation					
	Minimal	Significant				
0	63	28				
≥1	43	60				

enforce legislation but do not have any equipment. Again these communities may have no legislation yet or only nuisance-type of legislation. Note also from Table 4-12 that 174 communities have at least one sound level meter and therefore have equipment capable of enforcing a noise ordinance specifying acoustic performance standards. However, it can be seen from Table 4-14 that only 129 of these communities enforce their noise laws. Thus, there are as many as 45 communities with equipment not enforcing their local noise legislation. This could be due to (1) inadequate noise legislation, (2) the lack of trained manpower, and (3) inadequate instrumentation.

The question then arises whether the available instrumentation meets the needs of the communities for noise legislation and enforcement requirements. As shown in Table 4-15, 60 communities with one or more sound level meters have significant enforcement problems due to inadequate instrumentation. It is often difficult to mount an enforcement program effectively with only one or two sound level meters. This does not mean that some noise reduction will not be obtained. However, additional sound level meters, microphone calibrators and recording equipment may be necessary, since the legislation in some of these communities may stipulate criteria requiring more sophisticated instrumentation.

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	APPENDIX A
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-	QUESTIONNAIRE FOR ENVIRONMENTAL NOISE CONTROL PROGRAM SURVEY
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ENVIRONMENTAL NOISE CONTROL PROGRAM SURVEY  OR PERING FOR  NOTE: Participation in this invery program is strictly on a voluntary ball. All returned survey question needs.  1. RESPONDENT IDENTIFICATION  A. PLEASE TYPE OR PRINT THE FULL IDENTITY OF THE GOVERNMENT UNIT FOR WHICH YOU ARE RESPONDING  1. CITY OR TOWN  2. COUNTY  3. STATE  4. OTHER  4. OTHER  4. OTHER  2. ENVIRONMENTAL NOISE DESCRIPTION  A. PLEASE RANK THE FOLLOWING PROBLEMS IN YOUR COMMUNITY ON THE BASIS OF PUBLIC CONCERN (0 = none, 1 = minimal 2 + significant, 2 = most important)  1. CIMINE  2. URBAN RENEWAL  3. NOUSING  4. AN POLLUTION  5. WATER POLLUTION  5. WATER POLLUTION  5. WATER POLLUTION  6. STATE NOISE ISSUE A GROWNING CONCERN IN COMMUNITY ON THE BASIS OF PUBLIC CONCERN (0 = none, 1 = minimal 2 + significant, 2 = minimal 2 + significant, 3 = minimal 3 + significant, 3 = minimal (3 + significant, 3 + minimal) + significant, 3 + minimal (3 + significant, 3 + minimal) + significant, 3 + minimal (3 + significant, 3 + minimal) + significant, 3 + minimal (3 + significant, 3 + minimal) + significant, 3 + minimal (3 + significant, 3 + minimal) + significant, 3 + minimal (3 + significant, 3 + minimal) + significant, 3 + minimal (3 + significant, 3 + minimal) + significant, 3 + minimal (3 + significant, 3 + minimal) + significant, 3 + minimal (3 + significant, 3 + minimal) + significant, 3 + significant, 3 + minimal (3 + significant, 3 + significant, 3	U.S. 61 - FORMENTAL 84	OTECT ON AGEN	GY	READ INST	
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4. LEGISLATION TYPE (LT) AND ENFORCEMENT AG				1
5. LEGISLATION TYPE (LT) AND ENFORCEMENT AG			ļ	
NOTE: It would be most appreciated if you would enclose	copies	of any existing or proposed laws or ordinances incorpora	ting noise con	trai pro-
visions with your survey response.				
LEGISLATION TYPE CODE LTT	ENFO	ACEMENT AGENCY CODE . BA NO. OF EVENTS	CODE	
MC - MUNICIPAL OR CITY GODE.		LICE/SAFETY 0 NONE		
	EP . EN	PALIC REALTH   1 1-45		
AC - AEHICTE CODE	CC PD - PI	ONTROL 3 100:249 ANNING/DEVELOPMENT 4 250:499	ì	-
HS . HEALTH/SAFETY CODE	PW·PL	IBLIC WORKS 5 500 - 999		
		JILDING/ZONING   6 1,000 - 2,499 RANSPORTATION   7 2,500 - 4,899		
	NA - BN TO - TO	ATURAL RESCURCES   9 5,000 - 9,999 THER   9 10,000 AND 0	OVER	~
	==			<del></del> ,
C. IF ANSWER TO 4A IS "YES" PLEASE RESPOND T		•		
PLACE AN "X" NEXT TO THE NOISE SOURCE CO LATION, ONLY IDENTIFY THOSE THAT INCLUD	NTRO1	LS COVERED UNDER THE NOISE CONTROL PROV- FORMANCE STANDARDS   Jeophel House levels.	ISIONS OF YO	
1. AIRCRAFT		10. GARBAGE COMPACTORS		
2. TRUCKS	_	11. RECREATION VEHICLES		<del></del>
3. BUSES	-	12. PUBLIC OR PRIVATE ENTERTAINMENT finch	wine sound	<del></del>
4. AUTOS		systems;		<del></del>
5. MOTORCYCLES	+	13. ANIMALS		
6. RAILROAD OPERATIONS 7. CONSTRUCTION EQUIPMENT	<del></del> -	15, BUILDING REQUIREMENTS	<del></del>	
8. INDUSTRIAL	$\neg$	16, LAND USE ZONING		
9. PUBLIC SERVICE VEHICLES/EQUIPMENT		17, OTHER (specify)		-
D. IF ANSWER TO 4 IS "NO" PLEASE RESPOND TO	THEFO	OLLOWING:		
DO YOU ANTICIPATE THE DEVELOPMENT OF A	NY NOI	ISE RELATED LEGISLATION OVER THE NEXT TWO	YEARS? LIY	ES LINC
5. ENFORCEMENT				***
A. DOES YOUR GOVERNMENT ENFORCE THE NOIS QUESTION 8.	E CON	TROUPROVISIONS? EYES ENO IF YOUR A	MSTVER IS "NO	ι αυτα, <u>ι</u>
8. PLEASE PROVIDE THE FOLLOWING ENFORCEME	NT DA	TA FOR THE PAST ACCOUNTING YEAR. FILTER C	NE LINE FO	8 84CH
LEGISLATION TYPE LISTED IN RESPONSE TO QU				i wa i wal
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VC - NUMBER OF VIOLATIONS RESOLVED BY VO	SLUNT.	ARY 3		
IC - NUMBER OF VIOLATIONS RESULTING IN THE				•
C. PLEASE LIST THE NUMBER OF ENFORCEMENT A MATION IS NOT AVAILABLE, WRITE "NA" NEXT	TO TH	S FOR EACH OF THE FOLLOWING NOISE SOURCE E NOISE SOURCE CONTROL,	CONTROLS.	
I, AIRGRAFT		10. GARBAGE COMPACTORS		
2. TRUCKS	_	11, RECREATION VEHICLES		- Po-1
), BUSES		12, PUBLIC/PRIVATE ENTERTAINMENT		
, AUTOS	_}_	13. ANIMALS		-   * <sup>1</sup>
, MOTORCYCLES		14. HOME POWER EQUIPMENT		<del></del>
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, INDUSTRIAL		17, OTHER /specify/		
, PUBLIC SERVICE VEHICLES/EQUIPMENT		Tree with the standing		<del></del>
D. WHAT ARE THE MAJOR ENFORCEMENT PROBLE PLEASE RANK THESE FACTORS (0 = none, 1 = min	MS REI imal, 2	DUCING THE EFFECTIVENESS OF YOUR MOISE CO	NTROL EFF	ORT?
, AMBIGUOUS LEGISLATION	<del>-</del>	B. LACK OF CITIZEN SUPPORT/AWARENESS		
. UNENFORCEABLE LEGISLATION		G. INADEQUATE MANPOWER		*
INADEQUATE INSTRUMENTATION		7. ENFORCEMENT AUTHORITIES DO NOT PRIOIT	IZE MOISE	1
. INADEQUATE ENFORCEMENT/MEASUREMENT		B. ACTIONS ARE NOT HELD IN COURT		
PROCEDURES	1	9. OTHER (specify)		
FA Hq Form 8800-8 (10-77)				2:1

Transfer of the later of the la

8. PERSONNEL						
A, PLEASE COMLETE ONE LINE FOR EAC LEAST 20% OF HIS/HER TIME TO NOIS CODES INDICATED BELOW.	E CONTROL AC	TIVITIES, USI	ING THE BY POSITI	NDICATE THE NUM ION CODES AS IN IN 20% OF THEIR	"A" WHO DEVO	TE
PC-POSITION CODE  1. PERCENT OF TIME DEVOTED TO NOISE CONTROL ACTIVITIES EXP-FIELD OF EXPERIENCE ST - SUPPLEMENTARY TRAINING IN THE FIELD OF NOISE CONTROL (combined length of all courses taken)	1, PC 2, 3, 4,	E EXP	ST TRUEAC	1. 20	NO.	
FIELD OF EXP	ERIENCE CODE	(EXP)		SUPPLEMENTA	RY TRAINING	CODE
101 ACQUSTICS 302 PUBLI	DGICAL SCIENC CHEALTH SCIEN LL SCIENCE	CE 800 TRA OPE	MUNITY PLANNING ANSPORTATION RATIONS ETY OPERATIONS	2, 1 TO 2 3, 2 TO 4		
	P	OSITION COD	E (PC)			
01 POLLUTION CONTROL PROGRAM DIRECT Plans, organizes, and directs the professional, admitschnical activities of a legislatively decreed pollul program; evaluates program and personnel effectivimprovements.	inistrative and tion control	Sui 612 07	URBAN PLANNER, pervises or performs pi ins for the orderly grow ATTORNEY i job description deems	rofessional work in t yth of metropolitan	the development	a†
02 ENVIRONMENTAL SPECIALIST Directs, supervises, or parforms work which involvatives and assistance in program and administrative relating to the development, execution, and maint duate environmental programs.	re matters	11 Un tec	ENVIRONMENTAL der general supervision haical nature in the en	TECHNICIAN OR	INSPECTOR I essional work of	•
OJ ENGINEER Performs professional angineering work in an offic field; makes analyses and evaluations of angineering provides professional advice.		Na 13	POLICE job description deeme CLERICAL OR SECT job description deeme	RETARIAL		
04 PHYSICAL SCIENTIST Administers, supervises or performs research or ot fessional and scientific work in the investigation al of a perticular field of the physical sciences.		99 Thi	OTHER is category is to be use ered by any of the job	d för individuals wh		t
05 PUBLIC HEALTH SPECIALIST OR SANITA DUSTRIAL HYGIENIST Plans, develops, administers, supervises, or perforn						
detecting, eliminating, and preventing public, indu	ns work in estrial, or					
detecting, eliminating, and preventing public, indu- environmental health hezards. 7. PROGRAM EFFORT	strial, or					
detecting, eliminating, and preventing quolic, indu- environmental health negards. 7. PROGRAM EFFORT  A. DOES YOUR GOVERNMENT HAVE A NO GRAM?  YES  NO	ISE CONTROL					
ortecting, eliminating, and preventing public, indu- environmental health hezards.  P. PROGRAM EFFORT  A. DOES YOUR GOVERNMENT HAVE A NO CRAME?	POND TO THE I	OLLOWING:		AVE A NOISE COM	NTROL PROGRA	AM?
attecting, eliminating, and preventing quolic, industrictionmental health heaterds.  7. PROGRAM EFFORT  A. DOES YOUR GOVERNMENT HAVE A NO GRAM?  DYES  NO  B. IF ANSWER TO 7A IS "NO", PLEASE RES  WHICH OF THE FOLLOWING FACTORS (1) = NON	POND TO THE I	FOLLOWING: YOUR COMM # Hynificant,	3 = most important;.	AVE A NOISE COM	NTROL PROGRA	AM?
attecting, siminating, and preventing qualic, industriction material.  7. PROGRAM EFFORT  A. DOES YOUR GOVERNMENT HAVE A NO GRAM?  DYES  B. IF ANSWER TO 7A IS "NO", PLEASE RES WHICH OF THE FOLLOWING FACTORS ID PLEASE RANK THESE FACTORS ID # NON.  NOT A PROBLEM	POND TO THE I	FOLLOWING: YOUR COMM # significant, 2	3 = most important;.		NTROL PROGRA	AM?
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datecting, eliminating, and preventing qualic, industrying neutral health nezards.  7. PROGRAM EFFORT  A. DOES YOUR GOVERNMENT HAVE A NOT GRAM?  YES NO  B. IF ANSWER TO 7A IS "NO", PLEASE RES WHICH OF THE FOLLOWING FACTORS (V = 110 m)  1. NOT A PROBLEM  2. NOT A PRIORITY PROBLEM  1. NOTHING CAN BE DONE	POND TO THE I	FOLLOWING: YOUR COMM = tignificant, 5. TOC	3 = most important;.		NTROL PROGRA	AM?
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ATTECTION, Aliminating, and preventing public, industricting, Aliminating, and preventing public, industriction in the provision mental health in hearards.  7. PROGRAM EFFORT  A. DOES YOUR GOVERNMENT HAVE A NO GRAM?  1. YES IND  B. IF ANSWER TO 7A IS "NO", PLEASE RES WHICH OF THE FOLLOWING FACTORS ID PLEASE RANK THESE FACTORS ID PLEASE RANK THESE FACTORS ID NOT A PRIORITY PROBLEM  2. NOT A PRIORITY PROBLEM  3. NOTHING CAN BE DONE  4. NOT RESPONSIBILITY OF COMMUNITY  C. PLEASE RANK EACH OF THE FOLLOWIN TROL PROGRAM ID PROBLEM ID NOISE LAWS AND REGION IN TROL PROGRAM ID PROBLEM IN THE PROVIDE A SEARCH OWN OF YOUR PUBLIC EDUCATION  5. REVIEW  1. BUDGETARY DATA  A. PLEASE PROVIDE A BREAKDOWN OF YOUR A SEQURE FASSUCH, ESTIMATES ARE ACCEPTABLE THE FOLLOWING DATA IS FOR THE YEAR	POND TO THE IDESCRIBE WHY CO. I * minimal. 2  IG ACTIVITIES * significant, 3 * IDUATIONS  PAATION!	FOLLOWING: YOUR COMM Ityniticant. 5. TOO 6. OPP 7. OTP 7. OTP ON THE BASIS most important 6. MOI 7. RES 8. GEN 9. OTP ALLOCATIO	3 - most important,. D COSTLY POSITION FROM IND HER (specify): S OF THE EFFORT C III. NITORING/SOCIAL S SEARCH NERAL ADMINISTRA HER (specify): ROL PROGRAM BUD N, IF THE NOISE CO	USTRY  EVOTED TO EACH  URVEYS	H BY THE NOIS	E CO
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datecting, aliminating, and preventing public, industriction and instantial health health health.  7. PROGRAM EFFORT  A. DOES YOUR GOVERNMENT HAVE A NO GRAM?	POND TO THE IDESCRIBE WHY  IG ACTIVITIES SIGNIFICANT, 3 *  JUATIONS  RATION  DUR CURRENT  OR THE TOTAL  AR BEGINNING	FOLLOWING: YOUR COMM Itynificant. 5. TOO 6. OPP 7. OTP ON THE BASIS most important 6. MOI 7. RES 8. GEN 9. OTP NOISE CONTE	3 - most important,. D CQSTLY POSITION FROM IND HER (specify): S OF THE EFFORT C III. NITORING/SOCIAL S SEARCH NERAL ADMINISTRA HER (specify): ROL PROGRAM BUD N, IF THE NOISE CO	USTRY  EVOTED TO EACH  URVEYS  ATION  GET, IF BUDGETA  NTROL BUDGET I	H BY THE NOIS  ARY BREAKDO S NOT IDENTIF	E CO
ATTECTION, Aliminating, and preventing public, industricting, Aliminating, and preventing public, industriction in the provision mental health in hearards.  7. PROGRAM EFFORT  A. DOES YOUR GOVERNMENT HAVE A NO GRAM?  1. YES IND  B. IF ANSWER TO 7A IS "NO", PLEASE RES WHICH OF THE FOLLOWING FACTORS ID PLEASE RANK THESE FACTORS ID PLEASE RANK THESE FACTORS ID NOT A PRIORITY PROBLEM  2. NOT A PRIORITY PROBLEM  3. NOTHING CAN BE DONE  4. NOT RESPONSIBILITY OF COMMUNITY  C. PLEASE RANK EACH OF THE FOLLOWIN TROL PROGRAM ID PROBLEM ID NOISE LAWS AND REGION IN TROL PROGRAM ID PROBLEM IN THE PROVIDE A SEARCH OWN OF YOUR PUBLIC EDUCATION  5. REVIEW  1. BUDGETARY DATA  A. PLEASE PROVIDE A BREAKDOWN OF YOUR A SEQURE FASSUCH, ESTIMATES ARE ACCEPTABLE THE FOLLOWING DATA IS FOR THE YEAR	POND TO THE IDESCRIBE WHY  IG ACTIVITIES SIGNIFICANT, 3 *  JUATIONS  RATION  DUR CURRENT  OR THE TOTAL  AR BEGINNING	FOLLOWING: YOUR COMM Plynificant. 5. TOO 6. OPP 7. OTP ON THE BASIS most important 6. MOI 7. RES 8. GEN 9. OTF ALLOCATION (Month/Year): 6. MON 7. RES	POSTLY POSITION FROM IND HER (specify): S OF THE EFFORT OF INTORING/SOCIAL S SEARCH NERAL ADMINISTRA HER (specify): ROL PROGRAM BUD N, IF THE NOISE CO	USTRY  EVOTED TO EACH  URVEYS  ATION  GET, IF BUDGETA  NTROL BUDGET I	H BY THE NOIS  ARY BREAKDO S NOT IDENTIF	E CO
ATTACKEN AND THE POLICY OF THE	POND TO THE IDESCRIBE WHY  IG ACTIVITIES SIGNIFICANT, 3 *  JUATIONS  RATION  DUR CURRENT  OR THE TOTAL  AR BEGINNING	FOLLOWING: YOUR COMM Itynificant. 5. TOO 6. OPP 7. OTP 7. OTP 17. ALS 18. GEN 9. OTP NOISE CONTE ALLOCATION 17. RES 6. MON 17. RES 8. GEN 9. OTP	POSTLY POSITION FROM IND HER (specify):  S OF THE EFFORT OF  INTO RING/SOCIAL S SEARCH NERAL ADMINISTRA HER (specify):  ROL PROGRAM BUD N, IF THE NOISE CO	EVOTED TO EACH	H BY THE NOIS  ARY BREAKDO S NOT IDENTIF	E CO

A COR EACH METERMENT OR RICCE OF FOLIRMENT LIS	STED BELOW, PLEASE INDICATE THE QUANTITY CURRENTLY O	MALH A N
FOR YOUR NOISE CONTROL PROGRAM.	THE BECOMPLEASE INDICATE THE GOARDITT CORRENTLY D	
1, SOUND LEVER METERS	7. MAGNETIC TAPE RECORDERS	
2. MICROPHONE (Sound level) CALIBRATORS	8, REAL-TIME ANALYZERS	Π.
3. SOUND SPECTRUM (Frequency) ANALYZERS	9. COMMUNITY NOISE MONITORING SYSTEMS	T
4. AMPLITUDE DISTRIBUTION (Level) ANALYZERS	10. COMPUTERS, PROGRAMMABLE CALCULATORS	
5. GRAPHIC LEVEL RECORDERS	11. MOTOR VEHICLES	1
6. VIBRATION METERS AND ACCELEROMETERS	12. OTHER (specify):	+
10. EPA SUPPORT		
A. PLEASE RANK EACH OF THE FOLLOWING PRODUCTS O	OR SERVICES AVAILABLE FROM THE U.S. ENVIRONMENTAL PRI DE TO YOUR PROGRAM (U = none, I = minimal, I = significant, I = mo DR PROGRAM, PLEASE ENTER THE LETTER "N".	OTEC, ost im-
1. FEDERAL REGULATIONS	6. ASSESSMENT GUIDES	
2. NOISE EMISSION STANDARDS	7. INSTRUMENTATION, TEST, LOAN OR ADVICE	<u> </u>
3. MODEL LEGISLATION	8. NOISE LEVEL RECOMMENDATIONS	<u> </u>
TRAINING WORKSHOPS AND PROGRAM GUIDE	9. GENERAL SUPPORT	<del>-  </del> -
5. COST AND TECHNOLOGY REPORTS	10. OTHER (specify):	<del>-</del>
B. PLEASE INDICATE WHICH OF THE FOLLOWING AREAS O	OF EPA ASSISTANCE WOULD BE OF SIGNIFICANT VALUE TO YOUR	B NO:
	GRAMMATICNEEDS (0 = none, 1 = minimal, 2 = significant, 3 = most i	
1. MODEL LEGISLATION	7. LAND USE PLANNING GUIDELINES	
2. MANPOWER	8. NOISE MEASUREMENT INSTRUMENTATION	<b>—</b>
3. PERSONNEL TRAINING/WORKSHOPS	9. PUBLIC INFORMATION MATERIALS	$\neg$
4. NOISE CONTROL PROGRAM GUIDELINES	10 EFFECTIVE NOISE CONTROL METHODS	
S, ENFORCEMENT PROCEDURES	11. FEDERAL NOISE CONTROL METHODS	$\neg$
6, NOISE ASSESSMENT QUIDELINES	12. OTHER (specify):	<del></del>
11. NOISE PROGRAM EVALUATION		
	R NOISE CONTROL EFFORTS, PLEASE RANK THESE FACTORS,	0 = n
1, LACK OF CITIZEN SUPFORT	8. LACK OF SFRECTIVE LEGISLATION	$\neg$
2, LACK OF POLITICAL SUPPORT	7. ENFORCEMENT RELATED PROBLEMS	-
3. LACK OF MANPOWER	8, INABILITY TO DEMONSTRATE PROGRAM SUCCESS	
4. UNTRAINED PERSONNEL	9, GENERAL INABILITY TO MEET PROGRAM OBJECTIVE	5
S, INADEQUATE OFERATING BUDGET	10. OTHER (specify)	-
B. HOW MUCH PROGRESS HAS BEEN MADE BY YOUR PROG FROM THE FOLLOWING NOISE SOURCES? PLEASE RANK TRILL.	RAM IN REDUCING THE NOISE LEVELS OR NOISE INTRUSIVEN THESE FACTORS (0 = none, 1 = minimal, 2 = significant, 3 = most	ESS unp_
1, AIRCHAFT	10, GARBAGE COMPACTORS	Prote
2, TRUCKS	11. RECREATION VEHICLES	
3, AUSES	12. PUBLIC OR PRIVATE ENTERTAINMENT	7
4. AUTOS	13, ANIMALS	
S, MOTORCYCLES	14. HOME POWER EQUIPMENT	
6. RAILROAD OPERATIONS	15. BUILDING REQUIREMENTS	<del></del>
7. CONSTRUCTION	18. LAND USE/ZONING	<del></del>
8, INDUSTRIAL	17, OTHER (specify):	
9. PUBLIC SERVICE VEHICLES/EQUIPMENT	Tr. Group (peng)	
OMMENTS:		
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# APPENDIX B

STATE NOISE CONTROL BUDGETS 1973 AND/OR 1977 BY EPA REGION

APPENDIX B STATE NOISE CONTROL BUDGETS 1973/1977

State	1970 Population	193	1973		1977	
	1970 Population	Budget \$	Per Capita c	Budget \$	Per Capita ¢	
Region [						
Connecticut Maine Massachusetts New Hampshire Rhode island Vermont	. 1,031,709 992,048 5,689,170 737,851 949,723 444,330	0 0 0 0 0 0 0	0.0 0.0 0.4 0.0 0.0	24,353 0 400,000 810 0	0,8 0,0 7,0 0,1 0,0 0,0	
Total 1973 1977	11,844,841 <sup>6</sup> 11,844,841 <sup>c</sup>	23,800	0.2	425,163	3,6	
Region []						
New Jersey New York Puerto Rico Yirgin Islands	7,268,164 18,236,951 2,719,000 62,468	89,900 147,800 0 (1,840) <sup>4</sup>	1.2 0.8 0.0 2.9	75,000 50,000 47,077	1.0 0.3 1.7 0.0	
Total 1973 1977	28,224,115 28,286,583	237,700	0.8	172,077	Q. 6	
Region [][						
Delaware Maryland Pennsylvenia Yirginia West Yirginia	548,104 3,922,399 11,800,766 4,648,841 1,744,237	0 0 0	0.0 0.0 0.0 0.0	0 24,000 Ng Report 0 Ng Report	0.0 0.6	
Total 1973 1977	22,664,347 9,119,344	0	0.0	24,000	0.3	
Region IV						
Alabama Florida Georgia Kentucky Nississippi North Carolina South Carolina Tennessee	3,444,354 6,789,443 4,589,575 3,218,706 2,215,994 5,084,421 2,580,515 3,926,018	0 45,000 (20,000) <sup>2</sup> 0 7,000 16,800 0	0.0 0.7 0.0 0.6 0.0 0.1 0.7	93,000 22,000 92,075 0 0 700	0.0 1.4 0.5 2.9 0.0 0.0 0.03	
Total 1973 1977	28,641,311 31,860,017	68,500	0.2	207,775	0,7	

I974 budget estimate, no noise control budget in 1973. Not included in totals.
 Population of States reporting budgets in 1973.
 Population of States reporting budgets in 1977.

# APPENDIX B (CONTINUED)

State	1970 Population	19	1973		1977	
	1 1910 Sobilistion	Budget \$	Per Capita c	Budget \$	Per Capita	
Region V				i		
filinois Indiana Ohio Michigan Minnesota Wisconsin	11.109,935 5,191,669 10,652,017 8,875,083 1,806,103 4,417,821	200,000 b (23,000) b (1,844) a 0 No Report	1.8 0.4 0.02 0.0 0.0	304,400 39,270 0 164,915 53,030	2.7 0.8 0.0 1.9 1.4 0.0	
Total 1973 1977	24,402,839 44,054,628	200,000	0.8	501,605	1.2	
Region VI		<u> </u>				
Arkansas Louisiana Hew Mexico Cklahoma Texas	1,923,122 3,643,180 1,017,055 2,559,253 11,199,385	4,650 0 1,000 No Report	0.0 0.1 0.0 0.04	0000	0.0 0.0 0.0 0.0 0.0	
Total 1973 1977	9,142,810 20,342,195	5,650	0.1	0	0.0	
Region VII			}			
lora Kansas Missouri Nepraska	2,825,368 2,249,071 4,677,623 1,485,333	0 1.925 No Report 0	0.0 0.1 0.0	No Report 0 0	0.0 0.0	
Total 1973 1977	6,559,772 8,988,324	1,925	0.03	0	0.0	
Region VIII			l l			
Colorado Montana North Dakota South Dakota Utan Nyoning	2,209,596 694,409 617,792 666,257 1,059,273	0 2.000 No Report 0 No Report No Report	0.0 0.3 0.0	No Report 3,000 0 No Report 0 No Report	0.4	
Total 1973 1977	3,570,262 2,371,474	2,000	1.0	3.000	0.1	

 $<sup>^{\</sup>rm a}$  1974 budget estimate, no noise control budget in 1973. Not included in totals.

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 $<sup>^{\</sup>rm b}$  1975 budget estimate, no noise control budgets in 1973 or 1974. Not included in totals.

# APPENDIX B (CONTINUED)

State	1970 Population		1973		77
State	1310 Lobn lactou	Budget \$	Per Capita ¢	Budget 1	Per Capita (
Region  X				1	
Arizona California Hawaii Nevada	1,770,900 19,945,715 768,561 488,738	1,500 1,348,800 56,491 127	0,1 6,8 7,3 0,03	215,000 1,645,000 135,132 0	12.1 6.3 17.6 0.0
Total 1973 1977	22,973,914 22,973,914	1,406,918	6,1	1,995,132	8.7
Region X					•
Alaska Idano Oregon Washington	713,015 2,091,385 3,409,163	No Report 0 44,300 0	0.0 2.1 0	No Report No Report 215,600 30,000	10.3 0.9
Total 1973 1977	6,213,563 5,500,548	44,300	0.7	245,600	4,5
GRAND TOTAL 1973 1977	164,237,774 185,341,868	1,991,093	1.2	3,634,352	1.9

# APPENDIX C

COMMUNITY NOISE CONTROL BUDGETS 1973 AND/OR 1977 BY EPA REGION

APPENDIX C

COMMUNITY NOISE CONTROL BUDGETS 1973/1977

	1070	1	1973		1977	
City	1970 Population	Budget \$	Per Capita ¢	Budget \$	Per Capita ¢	
Region I						
Bridgeport, CT	157,000	2,275	1.5	0	0.0	
New Haven, CT	137,715	0	0.0	300	0.2	
Norwalk, CT	79,192	0	0.0	635	0.8	
Lewiston, ME	41,779	NR <sup>a</sup>		10,000	23.9	
Boston, MA	641,053	31,000	4.8	18,500	2.9	
Holyoke, MA	50,032	NR		400	0.8	
Springfield, MA	163,886	No Report		700	0.4	
East Providence, RI	48,135	NR		100	0.2	
Pawtucket, RI	76,992	0	0.0	1,000	1,3	
Totals 1973 1977	1,091,952 <sup>b</sup> 1,395,784 <sup>c</sup>	33,275	3.1	31,635	2.3	
Region II						
Bridgewater, NJ	32,000	NR NR		1,200	3.8	
Kearney, NJ	37,589	NR		2,100	5,6	
Newark, NJ	382,377	0	0.0	10,000	2.6	
Orange, NJ	32,565	NR		500	1.5	
Perth Amboy, NJ	38,777	NR		400	1.0	
Teaneck Twp, NJ	42,000	NR		1,500	3.6	
Wayne Twp, NJ	49,000	NR		3,150	6.4	
Nassau County, NY	1,428,000	41,290	2.9	No Report	j	
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aNot requested to respond to 1974 survey.

<sup>&</sup>lt;sup>b</sup>Population of communities reporting budgets in 1973.

<sup>&</sup>lt;sup>c</sup>Population of communities reporting budgets in 1977.

	1970	1973		1977	
City	Population	Budget \$	Per Capita c	Budget S	Per Capita ¢
Region II (Cont.)					
New Rochelle, NY	75,385	(759) <sup>b</sup>	1.0	100,000	132.7
New York City, NY	7,895,000	950,000	12.0	250,000	3.2
Totals 1973 1977	9,705,377 8,584.693	991,290	10.2	368,850	4.3
Region III					
Baltimore, MD	905,759	(57,957) <sup>b</sup>	6.4	0	0.0
Wilmington, DE	80,386	NR a		20,000	24.9
Allentown, PA	109,521	0	0.0	67,000	61.8
Pittsburgh, PA	520,000	42,000	8,1	No Report	
Alexandria, VA	110,938	No Report		3,500	3.2
Arlington. VA .	163,401	0	0.0	15,800	9.7
Chesapeake, VA	89,580	No Report		1,500	1.7
Norfolk, VA	307,951	1,200	0.4	24,000	7:8
Washington, DC	756,510	0	0.0	43,200	5.7
Totals 1973 1977	1,857,383 2,524,046	43,200	2.3	175,000	6.9
Region IV					
Huntsville, AL	137.878	0	0.0	10,000	7.3
Montgomery, AL	133,000	560	0.4	0	0.0
Boca Raton, FL	28,542	NR	1	3,000	10.5

<sup>&</sup>lt;sup>2</sup>Not requested to respond to 1974 survey.

b 1974 budget estimates; no noise control budget in 1973; not included in totals.

(CONTINUED) APPENDIX C

	1970	19	73	1977	
City	Population	Budget \$	Per Capita ¢	Budget S	Per Capita ¢
Region IV (Cont.)				1	
Daytona Beach, FL	45,327	NR <sup>a</sup>	!	1,500	3.3
Ft. Lauderdale, FL	139,543	0	0,0	10,000	7.2
Gainesville, FL	64,510	NR	j	35,000	34.3
Jacksonville, FL	529,000	1,015	0,2	18,315	3.5
Miami, FL	335,000	1,200	0,4	No Repart	<u> </u>
Miami Beach, FL	86,974	No Report		35,000	40.3
St. Petersburg, FL	216,000	1,713	0.8	No Report	-
Tampa, FL	278,000	2,746	1.0	7,250	2.6
Columbus, GA	154,098	0	0.0	15,000	9.7
Biloxi, MS	48,486	NR	}	5,000	10.3
Charlotte, NC	241,000	75	0.03	0	0.0
Fayetteville, NC	53,510	NR	}	1,000	1.8
Columbia, SC	113,542	2,120	1.9	5,200	4.5
Totals 1973 1977	2,277,061 2,053,410	9,429	0.4	146,265	7.1
Region V					
Chicago, IL	3,362,825	206,500	6.1	127,155	3.8
Downers Grove, IL	32,700	NR		2,000	6.1
Normal, IL	26,346	NR		1,400	5.3
Rockford, IL	147,205	0	0.0	1,500	1.0
Evansville, IN	138,690	0	0.0	8,876	6.4
Gary, IN	175,415	(20,775) <sup>b</sup>	11.8	0	0.0
Hammond, IN	107,737	0	0.0	4,250	3.9

aNot requested to respond to 1974 survey.
b1974 budget estimates; no noise control budget in 1973; not included in totals.

(CONTINUED) APPENDIX C

	1970	19	73	1977	
City	Population	Budget \$	Per Capita . ¢	Budget S	Per Capita ¢
Region V (Cont.)					
Indianapolis, IN	745,000	3,800	0.5	39,270	5,3
Birmingham, MI	26,181	NR <sup>a</sup>		700	2,7
Flint, MI	193,000	160	0.1	0	0.0
Grand Rapids, MI	197,534	10,000	5,1	26,614	13,5
Kalamazoo, MI	86,000	440	0.5	0	0.0
Livonia, MI	110,183	0	0.0	18,206	16.5
Saginaw, MI	91,820	1,520	1.7	19,680	21,4
Taylor, MI	70,082	NR		5,000	7,1
Warren, MI	179,000	85	0.1	No Report	
Bloomington, MN	81,948	No Report	1	43,200	52.7
Edina, MN	44,031	NR		500	1,3
Fridley, MN	29,215	NR .	ĺ.	500	1.7
Minneapolis, MN	434,381	10,319	2.4	10,000	2,3
Minnetonka, MN	35,779	NR		2,500	7,0
Richfield, MN	47,242	NR		4,500	9,5
St. Cloud, MN	39,691	NR		4,500	11.3
Akron, OH	275,420	0	0.0	43,900	15.9
Cincinnati, OH	452,000	1,515	0.3	No Report	
Cleveland, OH	750,751	(71,351) <sup>b</sup>	9.5	0	0.0
Shaker Heights, OH	36,309	NR		2,000	5.5
Toledo, OH	384,015	0	0.0	4,800	1.3
Kenosha, WI	78,817	700	0.9	8,250	10.5
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aNot requested to respond to 1974 survey.
b1974 budget estimates; no noise control budget in 1973; not included in totals.

APPENDIX C (CONTINUED)

<u></u>	1	1973		1977	
City	1970 Population	Budget \$	Per Capita	Budget \$	Per Capita
Region V (Cont.)	<u> </u>				
Manitowoc, WI	33,497	NRa		2,000	6.0
Marathon, WI	1,214	NR		100	8,2
Milwaukee, WI	717,124	12,298	1.7	26,893	3.8
Oshkosh, WI	53,155	NR		1,250	2.4
Racine, WI	95,193	0		2,700	2.8
West Allis, WI	71,691	NR		4,700	6.6
Totals 1973 1977	7,877,892 8,802,139	247,337	3,14	416,944	4.7
Region VI					
Albuquerque, NM	243,751	No Report		20,869	8.6
Norman, OK	52,128	NR NR		18,000	34.5
Oklahoma City, OK	366,734	17,279	4.7	23,000	6.3
Tulsa, OK	331,800	2,920	0.9	4,000	1,2
Austin, TX	251,000	3,750	1.5	0	0.0
Bryan, TX	33,719	NR		2,000	5.9
Galveston, TX	61,813	NR		3,100	5.0
Houston, TX	1,232,407	10,450	0.9	24,733	2.0
Hurst, TX	27,239	NR		125	0.5
Pasadena, TX	89,316	353	0.4	500	0.6
San Antonio, TX	654,000	4,018	0.6	0	0.0
Totals 1973 1977	2,925,257 3,343,907	38,770	1.3	96,327	2.9

 $<sup>^{\</sup>mathrm{a}}\mathrm{Not}$  requested to respond to 1974 survey.

APPENDIX C (CONTINUED)

	1970	197	1973		1977	
City	Population	Budget \$	Per Capita	Budget S	Per Capita	
Region VII						
Ames, IA	39,699.	NR <sup>a</sup>		4,750	12.0	
Clinton, IA	34,719	NR		1,000	2.9	
Council Bluffs, IA	60,588	NR NR	{	573	0.9	
Dubuque, IA	62,313	NR	}	4,250	6.8	
Kansas City, MO	507,330	(65,000)b	12.8	0	0.0	
Prairie Village, KS	28,104	NR	-	25,000	88.9	
Wichita, KS	389,000	No Report		1,000	0.3	
Grand Island, NE	31,269	NR	l j	2,000	6.4	
Lincoln, NE	149,518	(5,000)b	3.3	25,800	17.3	
Omaha, NE	347,380	No Report		6,000	1.7	
Totals 1973 1977	0 1,649,920	0	0.0	70,373	4.3	
Region VIII				<del></del> ·		
Arvada, CO	46,694	NR		1,000	2.1	
Aurora, CO	74,868	39,030	52.0	600	0.8	
Boulder, CO	66,870	NR		36,000	53.8	
Colorado Sprngs., CO	35,017	41,000	30,4	47,847	35.4	
Denver, CO	514,678	0	0.0	37,280	7.2	
Greeley, CO	38,902	NR		5,300	13.6	
Lakewood, CO	93,000	31,042	33,4	200	0.2	
Pueblo, CO	97,453	No Report		4,000	4.1	

<sup>&</sup>lt;sup>a</sup>Not requested to respond to 1974 survey. <sup>b</sup>1974 budget estimates; no noise control budget in 1973; not included in totals.

APPENDIX C (CONTINUED)

	1 ,,,,,	1	973	1	1977	
City	1970 Population	Budget \$	Per Capita	Budget \$	Per Capita c	
Region VIII (Cont.)						
Great Falls, MT	60,091	NR <sup>a</sup>		2,000	3.3	
Helena, MT	25,000	NR		3,300	13.2	
Grand Forks, ND	39,044	NR		8,000	20.5	
Minot, ND	32,270	NR		1,600	4.9	
Sioux Falls, SD	72,488	'NR		2,500	3,5	
Bountiful, UT	27 ,882	NR		1,100	3.9	
Salt Lake, UT	. 175,813	No Report		100,000	56.8	
Totals 1973 1977	817,563 1,500,070	111,072	13.6	250,727	16.7	
Region IX	•					
Anaheim, CA	166,118	0	0.0	25,000	15.0	
Arcadia, CA	44,602	NR	}	1,000	2.2	
Buena Park, CA	64,124	NR		1,000	1.6	
Costa Mesa, CA	72,729	NR		1,200	1.5	
Covina, CA	30,405	NR		1,800	5.9	
Culver City, CA	31,350	NR		5,000	15.9	
Downey, CA	88,000	3,240	3.7	No Report		
Freemont, CA	100,870	0	0.0	20,000	19.8	
Fresno, CA	165,972	3,480	2.1	20,000	12.0	
Garden Grove, CA	123,000	2,180	1.9	No Report		
Gardena, CA	41,090	NR		2,900	7.1	
Glendora, CA	31,349	NR		3,200	10.2	

aNot requested to respond to 1974 survey.

APPENDIX C (CONTINUED)

<u> </u>	1970	1	1973		1977	
City	Population	Budget \$	Per Capita	Budget \$	Per Capita ¢	
Region IX (Cont.)						
Hayward, CA	93,000	296	0.3	No Report		
Inglewood, CA	90,014	51,400	57.1	34,900	38.7	
La Habra, CA	41,298	NR <sup>a</sup>		3,000	7.26	
Lakewood, CA	82,928	3,774	4.6	200	0.2	
Livermore . CA	37,703	NR		4,000	10.6	
Lompoc, CA	25,320	NR		500	1.97	
Long Beach, CA	358,673	No Report		106,851	29.8	
Los Angeles, CA	2,816,000	92,500	3.3	100,000	3.6	
Menlo Park, CA	26,721	NR		8,500	31.8	
Modesto, CA	61,712	NR	:	11,100	17.9	
Monterey, CA	49,146	NR		7,000	14.2	
Mountain View, CA	60,200	NR	II	2,000	3.3	
Oakland, CA	361,613	110	0.03	200	0.1	
Ontario, CA	64,105	NR		50,922	79.4	
Paramount, CA	34,808	) HR		16,300	46.8	
Pasadena, CA	113,254	1,277	1.1	10,000	8.8	
Rialto, CA	28,490	NR		3,000	10.5	
San Diego, CA	765,000	0	0.0	55,300	7.2	
San Francisco, CA	715,674	No Report		43,500	6.1	
San Leandro, CA	68,698	liR	i	9,300	13.5	
Santa Cruz, CA	32,076	NR		1,500	4.7	
Santa Monica, CA	88,000	13,750	15.6	No Report	1	
Santa Rosa, CA	49,873	NR	į	20,000	40.1	
Simi Valley, CA	56,676	NR	,	8,900	15.7	

<sup>&</sup>lt;sup>a</sup>Not requested to respond to 1974 survey.

APPENDIX C (CONTINUED)

	1970	19	1973		1977	
City	Population	Budget \$	Per Capita ¢	Budget \$	Per Capita	
Region IX (Cont.)						
Stockton, CA	109,963	(26,488) <sup>b</sup>	24.1	) 0	0.0	
Sunnyvale, CA	95,200	No Report		2,300	2.4	
Torrance, CA	134,507	23,478	7.5	40,000	29,7	
Phoenix, AZ	968,000	0	0.0	50,000	5.2	
Totals 1973 1977	6,156,276 7,996,261	195,485	3.2	670,293	8.4	
Region X						
Anchorage, AK	48,157	NRª		40,000	83.1	
Corvallis, OR	35,153	NR		2,800	8.0	
Eugene, OR	76,341	] 0 }	0.0	12,980	17.0	
Portland, OR	383,000	167,500	43.7	61,700	16.2	
Everett, WA	53,732	NR		12.980	24.2	
Olympia, WA	25,000	NR		30,000	120.0	
Seattle, WA	530,890	66,000	12.4	99,200	18.7	
Totals 1973 1977	990,231 1,152,273	233,500	23.6	259,660	22.5	
Grand Totals	-					
1973 1977	33,698,992 39,002,503	1,903,358	5.7	2,651,074	6.8	

<sup>&</sup>lt;sup>a</sup>Not requested to respond to 1974 survey. <sup>b</sup>1974 budget estimates; no noise control budget in 1973; not included in totals.

### APPENDIX D

STATE AND LOCAL ENVIRONMENTAL NOISE CONTROL OFFICIALS: NAMES, ADDRESSES, TELEPHONE NUMBERS

#### APPENDIX D STATE AND LOCAL NOISE CONTROL OFFICIALS

ALABAMA

Phognix

Ludwig C. Hoffman, III Alabama Air Pollution Control Commission 645 South McDonough Street Muntgomery, Alabama 16130

Annistan

R. C. Cheatham, City Hgr. Anniston, Alabama 36201

Birmingnam

Hayor Birmingham, Alabama 35200

Outhan

Office. Board of (Zoning) Adjustment City of Dothan, P. G. Box 2128 Dothan, Alabame 36302 Talephone: 205-794-0361 Ext. 178

Gedsden

Heyar P. O. Box 267 Gadsden, Alabama 15902

Hab (1e

City Hall Mobile, Alabama 36660

Richard L. Smith F. G. Box 1827 Mobile, Alabama 36601

MONE GOOD FY

J. Aronstein, Jr. Oirector P. O. Box 1311 Montgomery, Alabams 36102

Selma

F. R. LaPorta 1300 Alabama Avenue Salme, Alabama 36701 Talaphone: 205-874-6611

ALASKA

Anchorage

Patrick C, Welch Cept, of resith & Environmental Protection 825 L Street Anchorage, Alaska 99501 Telephone: 907-264-4681

ARIZONA

John H. Beck, Chief Bureau of Sanitation Environmental Health Services 41 N. 24th Street Phoenix, Arizona 85008 Telephone: 602-255-1160

ARIZONA (Cont'd.)

James E. Derre, Minager Environmental Planning Services Department of Transportation 206 S. 17th Avenue Phoenix, Arizons 25007

City H411 Phoenia, Arizona 85000

Tempe

James M. Casey 31 E. Sth Street Temps, Artzona 85281 Telephone: 602-968-8221

Tueson

Morris Franks, Zoning Administrator Willis Lucas, Chief Building Inspector 250 v. Alaman Tucton, Artzona 85726 Telephone: 602-791-4541 (Franks) 602-791-4544 (Luces)

Yusa City Hall Yuma, Artzona 85364

ARKARCAS

Favotteville Carter B. Schell P. G. Grawer F Feyetteville, Arkansas 72701 Telephone: 501-521-7700 Ext. 241

Fort Smith

City Hall Fort Smith , Arkansas 72901

Jonesboro Oscar Mediack Chief of Police 314 M. Mashington Janesboro, Arkenses 72401 Telephone: 501-935-5553

Little Rock

Mary Lynn Walker Citizan Compleint Representative Markham and Broadway Streets Little Rock, Arkenses 72201

Pine Bluff

Craig Hull, Environmental Planner 200 E. 8th Pine Bluff, Arkensas 71601 Telephone: 501-535-7990

Hast Mamphis

West Memphis City Council 205 S. Redding West Memphis, Arkansas 72301

CALIFORNIA

A. E. Lone Chief, Office of Noise Control State Department of Health 2151 Berkeley Kay Berkeley, California 94704 Telephone: 415-843-7900 Ext. 375

W. R. Green
Design and Engineering
California Dupartment of Transportation
(CALTMANS)
1120 N. Street
Sacramento, Celifornia 95814
Telemonae: 916-445-4400

Gerren M. Heath, Chief Engineer Ross A. Little, Associate Automotive Equipment Standard Engineer California Migheap Patrol P. O. Box 998 Scramento, California 95804 Telephone: 916-446-909

Alhambra

Leslie G. Palyi Housing & Urban Development City of Alhambra 111 S. First Street Alhamora, California 91801 Telephone: 213-282-5111 Ext. 356

Angheim

Ellwyn G. Brickson, R. S. Orange County Health Department 1011 South East Street Anamain, California 92803 Telephone: 714-824-6798

Robert J. Kelley Planning Cepartment P. G. Box 1222 Anaheim, California 92805 Talephone: 714-533-5717

Anttocn .

Kenneth Shunk P. G. Box 130 Antioch. Celifornia 94509 Talaphone: 415-757-3333 Ext. 24

Arcadia

R. Terry Basey P. G. Box 60 Arcadia, California 91006 Telephone: 213-446-4471 Eat. 47

Azusa

City Hall Azusa, California 91702

Batersfield

Cal Siduell 1501 Truxton Avenue Bakersfield, California 93301 Telephone: 805-861-2724

Baldwin Park

City Hall Baldwin Park, California 91706

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CALIFORNIA (Cont'd.)	CAL TEORNES		
	CALIFORNIA (Cont.d.)	CALIFORNIA (Cont'd.)	
Bellflower	Cuntage	La Hapra	
Les Whittenburg 9838 E. Belmont dellflower, California 90705 Telephone: 213-866-9003	Cypress  Brian M. Hawley, Planning Dirac City of Cypress \$275 Oranga Avenue Cypres, California 90530 Felephone: 714-628-2200	Telephone: 213-694-1011	
Bell Gardens	714-028-2200	La Miraga	
farica Childers Chief of Police 7100 Garffield Avenua Bell Gardens, California 9020]	Daly City  Don Fleming  90th Street & Sullivan Avenue  Daly City, California 94015 Telephone: 415-992-4500 Ext. 27	Rtchard F. Pucci 13700 La Mireada Boulevard La Mireada, Califórnia 90538 Telaphone: 213-943-0131 Exc. 38	
Berkeley			
Elfjan B. Rogers. City Manager 2180 Milvia Street Berteley. California 94704 Talephone: 415-644-6580	El Cerrito City Hall El Cerrito, California 94530	Jose Loara 15900 E. Main Street La Puenta, California 91724 Talmonone: 213-330-2511 Eat. 10	
Beverly Hills	El Monte	Livermore	
M. Wach 450 North Crescent Drive Beverly Hflis, California 90210 Telephone: 213-550-4927	Harold Johanson 11333 Valley Boulevard El Honte, Californía 91734 Telaphone: 213-575-2247	Mon Lindgren 1050 South Street Livermore, California 94550 Telaphone: 415-443-0111	
Buena Park	Escondido	<u>Lompoc</u>	
D. F. Sowder, Zoning Administrator 6650 Beach Bouleverd Buena Park, California . 90620 Telephone: 714-521-9900	Gene Ervin, Building Director 100 Valley Boulevard Escondido, California 92025 Telephone: 716-741-4647	David E. Miller City Hall 119 Valnut Avanue Lompoc, California 93436 Telenom	,
Burbank	<u>fairfield</u>	203-730-1561	
Roland H. Schultz P. O. Box 6459 Burbank, California 91510 Telaphona: 213-847-9541	City Hall Fairfield, California 94533 <u>Francos</u>	Long Besch Jeff Lewin 2655 Pine Avenue Long Beach, Celifornia 90806 Telephone: 21J-627-7421	,
Burlingame	Con Driggs, City Manager Civic Center Orive		
City Manager 501 Primrose Road Burlingame, California 94010 Telephona: 415-342-8931	Telephone: 415-791-4111	Los Angeles James Heu Office of Environmental Quality	<del>;-</del>
	<u>Fresna</u>	Office of Environmental Quality About SIT City Hell 200 North Spring Street	
Carson City Hall Carson, California 90744	Gary Lencioni Planning & Inspection 2126 Fresho Street Fresho, Celifornia 93721 Telephone: 209-488-1591	and alf Dity Hell 200 Anoth Spring Street Los Angeles, California Felephone: 711-485-4242  Manhattan Seach	, 
Chula Vista	Telephone: 209-488-1591		
Ray B, Modge, Loning Enforcement Office 275 4th Avenue Chula Yista, California 92010 Telaphone: 714-575-5007	Gardena  IF Shuji Taketomo, Principal Inspector	Hilliam H. Orndorff 1400 Highland Avenue Pennettan Geach, California 90266 Telephone: 213-545-5621	geri Bud
Telephone: 714-575-5007	Gardena, California 90247	Menic Park	
PARCE MES		Police Department Menio Park, California 94025	•
Richard D. Danill, Division Chief	Glendora Glendora	Modes to	
Costa Mesa, California 92626 Telephone: 714-556-5245	Oliver B. Posey 150 Glendors Avenue Glendors, California 91740	Dale Cavis, Public Services Inspector P. O. Box 642	
<u>Cqv1na</u>	[ng]=-004	Modes to, California 95353 Telephone: 209-524-4011	
Michael A. Marquer, Planning Director 125 E. College Avine, California 91721 Gisphone: 213-331-0111	P. Patrick Mann, Env. St. Manager P. O. Box 6500 Inglewood, California 90306 Telephone: 213-649-7293	Montebel la	
ulvar Cley	Lakewood	nenry F. Couch 1500 W. Beverly Sculeverd Hontebello, California 90540 Talaphone: 213-725-1200	
harles F. Peregoy, Assistant Planner 170 Culver Bouleverd Jiver City, Celifornia 90230 Hephone: 213-837-5211	City Hell Lekewood, Celifornia 90714	Talephone: 213-725-1200	
riespoone: 213-837-5211		Hansel Cope City Hail	
		Monterey, California 93940 Telephone: 408-372-8121	
	,	•	
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CALIFORNIA (Contid.)

Honterey Park

Hunry Terashita 120 M. Newmark Asenue Honterey Park, California 91754 Telephone: 213-573-1211

Mountain View

Michael Perry Planning Department. 540 Castro Street Mountain View. California 94042 Talaphone: 415-951-7211

Hapa

City Hall Napa, California 94559

Norwalk

J. Cline, Station Commander L.A. County Sheriff's Department 12335 Leffingsill Norwalk, Celifornia 90650 Talaphona: 213-863-8711

Hovato

City Hall Novato, California 94947

Dakland

, 1

City Hall Oakland, California 94612

<u>Cntario</u>

Paul Clark 225 S. Euclid Ontario, California 91761 Telephone: 714-986-1151

Paranount

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City Hall Cape Girardeau, Missouri 63701	Hebster Graves City Hell	City Hall 630 Avenue C Bayonne, New Jersey 07002
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City Halt Springfield, Oregon 97477

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	PUERTO RICO	SOUTH CAROLINA (Cont'd.)	,
PEHNSYLVANIA		<u>Charleston</u>	
11entorn	Santos Robere Betancourt Accociate Director for Solid Waste	Jeen Pool	:
. J. Everatt	Santos Rohama Betancourt Associate Director for Solid Waste and Moise Control Environmental Quality Board	116 Heeting Street	, 1
15 Hemilton Street	José Sanngal 1937 Borinquen Gardens Rio Piedras, P.R. 00926	Jean Pool 116 Heeting Street Therleston, South Carolina 29461 Telephone: 803-377-9200	
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thichen	mand and all all	James M. Norton City Hell. P.O. Box 147 Columbia. South Carolina 29217 Talaphona: B03-755-1041	1 1
ty Hall	RHODE ESLAND	Columbia, South Carolina 29217	
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astov	State Office Bullding Providence, Rhode Island 02903	Florence.	• •
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<u>ancaster</u>	75 Davis Street Providence, Rhode Island 02908	Greenville	
olly C. Stambaugh unicipal Building 20 H. Duke Street ancaster. Pannsylvania 17504 (elaphone: 717-397-350) Eat. 83		City Hall	<b>527</b>
unicipal Building	Cranston	City Hall P.O. Box 2207 Greenville, South Carolina 29602	,
incaster, Pennsylvania 17604	James L. Taft, Jr., Mayor City Hall	Military Comp.	<b>\$</b> }
Hebudue: 111-221-2101 pro-	City Hall Cranaton, Rhode Island 02910	North Charleston	
ri es nort		cir. Polica Department	<b>100</b> 4
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	City Hall Erst Providence, Rhode Island G2914 Telephone: 401-434-331)	, , , , , , , , , , , , , , , , , , ,	
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	Newport	Randall Ellis	. 1
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Horristonn	•	Telephone: 803,128-01/	2005
•	Pantucket	Spartanburg	•
James Mitchell Health Officer	Eugene J. Jeffers, P.E.	Frank Allen, Meyor	, • 1
Health Officer 235 E. Airy Street Norristown, Pennsylvania 19401 Talephone: 215-272-8080	137 Roosevelt Avenue		
Telephone: 215-272-8080	Eugene J. Jeffers, P.E. 137 Roosevelt Avenua Partuciet, Rhode Island 02860 Telephone: 401-728-0500	City Hall Spertanburg, South Carolina 29304	<b>ent</b>
	·	TENNESSEE	11
Pattytown	Providence	0	E+1
Carroll L. Mattingly, Inspections Dir James E. Redgers, Chief of Police Borough Hall	John R. Rellam	Joba Barnett, Environmental Engineer II Qvision of Air Pollution Control State Department of Public Mealth 201 72th Avenue, North Capted Hill Building, Room 256 Mathetile, Tennessee 37219	
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Borough nati 241 King Street Pottstown, Pennsylvania 19454 Telaphone: 215-326-3100	Telephone: 401-831-6550 Ext. 65	301 - Zen Avenue, Narth Soutent Hill Building, Room 256	_ [
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	<u> yarufck</u>		
Reading	Gity Hall 3275 Post Road	Chattanodga	<b>64</b>
City Rall Communicate 19601	1275 Post Road Warwick, Rhoda Island 02885	City Hall Municipal Building	
Reading, Pannsylvania 19601		Municipal Building Chaccanoogs, Tennesise 33402	E1
State College	Moonsacket	The state of the s	
		<u>Clarksville</u>	#:3
118 S, Frager Street	e Gerald J. Bouley, Mayor 169 Main Street Woonsocket, Rhode Island D2895 Telephone: 401-762-6400		- 1
Elwood Militams, Jr., Chief of Polic 138 S. Fraser Street State College, Pennsylvania 18801 Talephone: 814-237-1411	Talephone: 401-762-6400	City Hall Clarksville, Tennessee 17040	S i
	SOUTH CAROLINA	Jackson.	<b>.</b>
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City Hall York City. Pennsylvenia 17405		City Mull 312 E. Main Street Jackson, Tennessee 38301	<b>E</b> 1
TOTA CITY. PRINCE STREET	Control	Jackson, idunation and	
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#### (CONTINUED) APPENDIX D

TENNESSEE	frontin !

TEXAS

TEXAS

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exandria_	David E. Saunders, Noise Section Head State Department of Ecology	Fairmont	
. A. A. Cardona, Dir. of Health		Wayne Stutler, Chief of Police P.O. Box 142B	
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	Bellevue	Huntington	
1 Ington	K. D. Bauer, Planning Department	City Hall	
chard 8. Bier d fioor, Courthouse lington, Yirginia 22201 lephone: 703-558-2715	K. D. Bauer, Planning Department 655 - 120th Street, N.E. Bellevue, Kasnington 98065 Talephone: 205-455-5864	City mail: Huntington, West Yirginia 25701	
1ephone: /UJ->20-2/15		Perkersburg	
arlottesville	Harold F. Corkery, Deputy Chief Police Department	Mayor P.O. Box 1348	
- //anda4	Bellevue, Washington 98009 Telephone: 206-455-6923	Parkersburg, West Virginia 25101	
n Higgins Dekaven Bowen, Chief of Police 8 E. Herket Street	(Sighupus: con-411-4252		
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1 pfax	Telephone: 206-259-8841	Rox 450	
G. Maize. Zoning Enforcement		Hadison, Wisconsin 53701	
. G. Maize. Zoning Enforcement 0555 Main Street	Longy law	Seloit_	
1955 Fain Screec 11 Ffax, Virginia 22030 11 Ephone: 703-691-2354	Kermit White, Palice Chief	<del></del>	
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mar A Achley		Telephone: 500-204-0000	
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ynchburd -	Telephone: 206-235-2540	Redentable attachment	
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