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Agency

Office of Solid Waste
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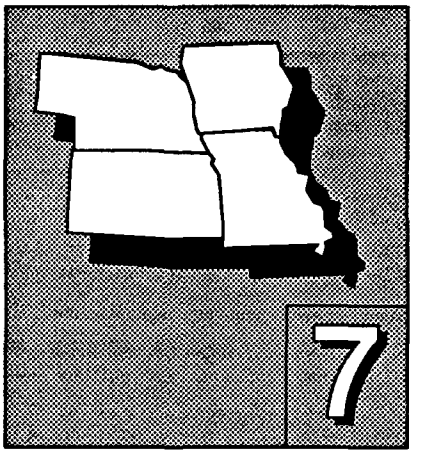
(OS-230)

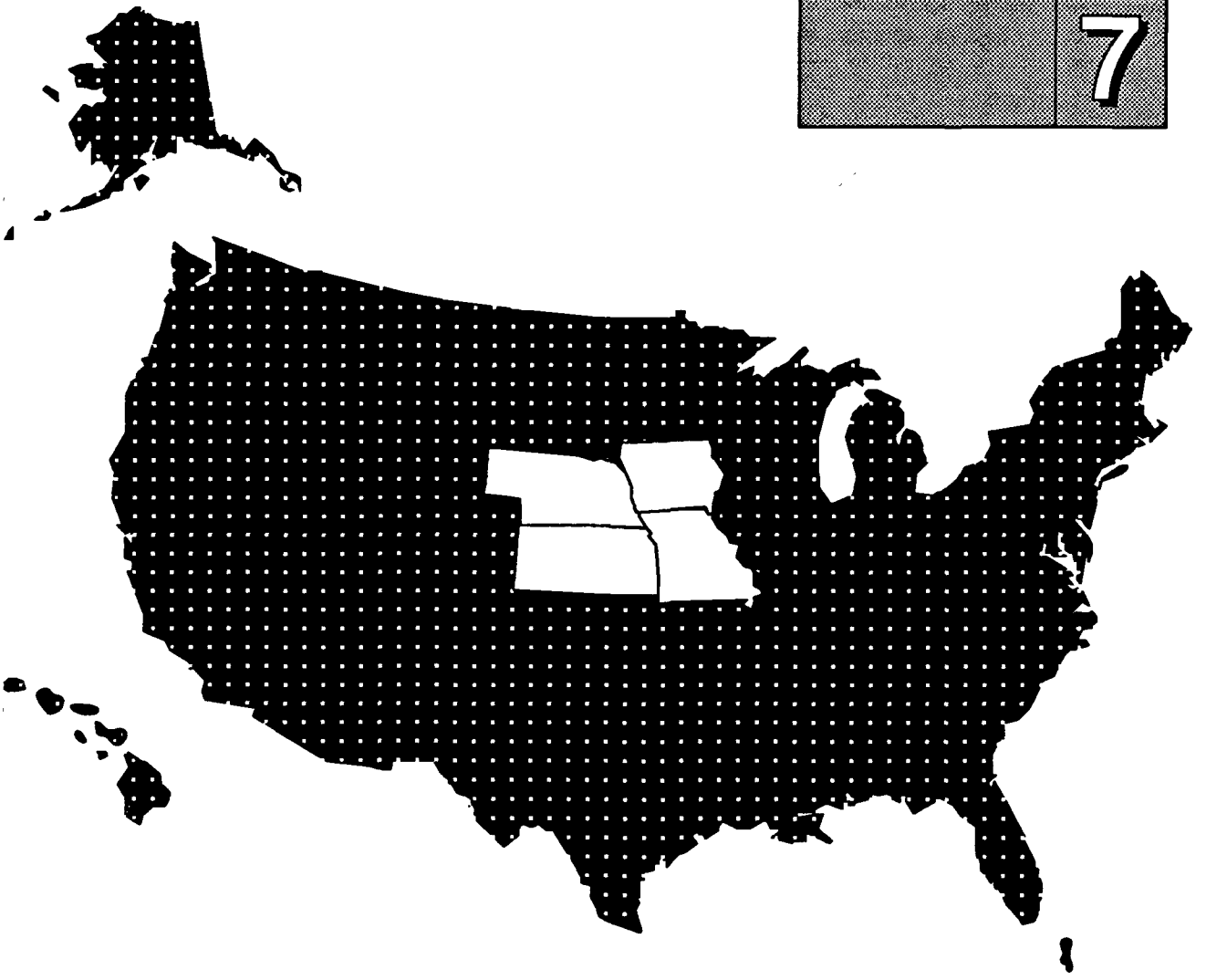
EPA/540/8-91/087
November 1991

EPA SUPERFUND

CERCLIS Characterization Project

Region 7 Results





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NPL Characterization Project:	Region 8 Results	PB92-963312
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CERCLIS CHARACTERIZATION PROJECT:

REGION 7 RESULTS

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LIST OF ACRONYMS AND ABBREVIATIONS

CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	CERCLA Information System
EPA	Environmental Protection Agency
EPIC	Environmental Photographic Interpretation Center
ERRIS	Emergency and Remedial Response Information System
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FIT	Field Investigation Team
GW	Ground Water
HRS	Hazard Ranking System
NFRAP	No Further Remedial Action Planned
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NRC	National Response Center
OSHA	Occupational Safety and Health Administration
PA	Preliminary Assessment
PCB	Polychlorinated Biphenyl
POTW	Publicly Owned Treatment Works
PCP	Pentachlorophenol
PRP	Potentially Responsible Party
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
SI	Site Inspection
SPCC	Spill Prevention, Containment, and Countermeasures
SW	Surface Water
TSCA	Toxic Substances Control Act
YR	Year

CHAPTER 1: PROJECT SUMMARY

Congress passed the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) in 1980 to address the environmental threats posed by the nation's uncontrolled waste sites. CERCLA directed the U.S. Environmental Protection Agency (EPA) to identify the sites that pose the greatest relative danger to human health or the environment. In response, EPA developed a site assessment process to evaluate and screen sites within the Superfund program. The main components of the site assessment process (see figure on next page) are:

CERCLIS. The CERCLA Information System (CERCLIS) is EPA's data base to record and track activities at all sites discovered. EPA learns of sites in many ways, including federal programs, state and local programs, and citizen notifications.

Preliminary Assessment. EPA or the state conducts a preliminary assessment (PA) at every site entered into CERCLIS. The PA — a relatively low cost review of available information — determines if the site warrants further CERCLA action. After the PA, EPA decides either to send the site forward in the assessment process or to classify the site as NFRAP (no further remedial action planned under CERCLA).

Site Inspection. The site inspection (SI) involves more detailed data collection, including environmental sampling. Based on the SI, EPA either recommends scoring the site with the Hazard Ranking System (HRS) or classifies the site as NFRAP.

Hazard Ranking System. The HRS uses information gathered during the PA and SI to screen and identify sites consistently for the National Priorities List (NPL). The HRS results in a numerical score that is used to set priorities for more detailed site investigation. In general, sites scoring 28.50 and above are added to the NPL, and sites scoring below 28.50 are classified as NFRAP.

National Priorities List. The NPL identifies sites that warrant more detailed evaluation and possible remedial response. Adding sites to the NPL is a rulemaking process — sites are proposed for the NPL in the Federal Register, the proposal is subject to public comment, and those sites with HRS scores that remain above 28.50 after public comment become final NPL sites.

This report, which is one in a series providing information on the nature of the sites being evaluated by the Superfund site assessment program, characterizes a sample of Region 7 sites in CERCLIS. Separate reports are available for the other nine Regions and for the nation as a whole. Other reports in this series cover the NPL characterization project, which provides a "snapshot" of sites on the NPL as of February 1991. National and Regional NPL characterization reports also are available.

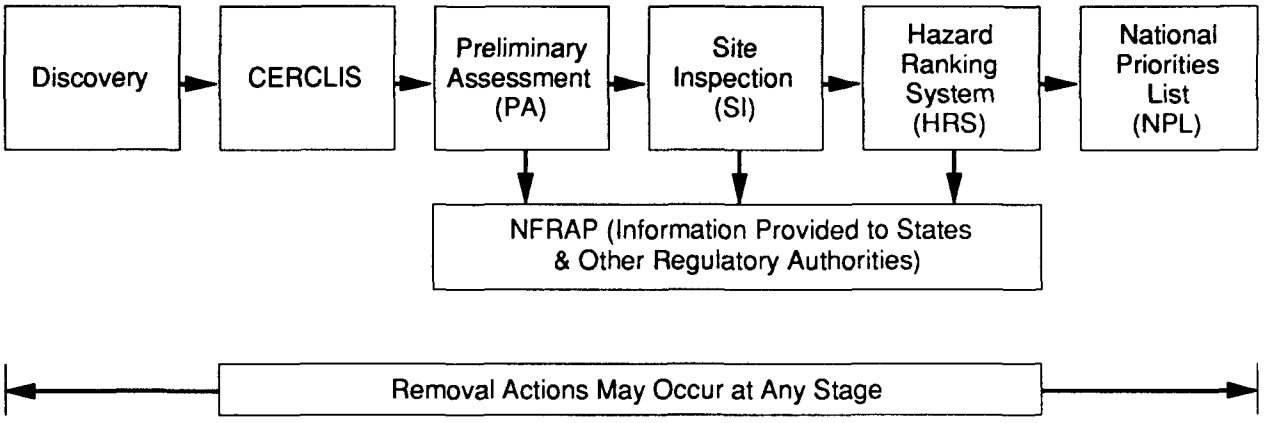
1.1 PROJECT OBJECTIVES

In September 1988, EPA undertook a project to characterize the 29,461 sites then in CERCLIS. The project's main objective was to develop a data base containing site-specific information that could be used to:

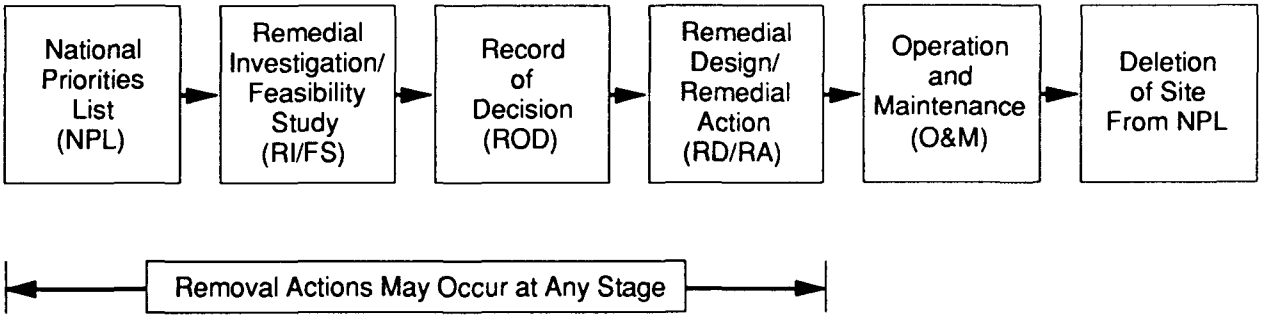
- characterize a sample of CERCLIS sites that would be representative of all CERCLIS sites; and
- increase understanding of the types of sites investigated under the Superfund site assessment program.

SUPERFUND PROCESS

Site Assessment Phase



Remedial Phase



Because the characterization is based on information collected during the PA stage of the Superfund process, it does not represent a comprehensive characterization of CERCLIS sites. Hundreds of sites pass through the PA stage annually. EPA's understanding of sites may change after more detailed investigations are conducted during the remainder of the site assessment and remedial stages of the Superfund process. The figure on the previous page illustrates the position of the PA stage in the overall Superfund process. This report provides a summary of the characteristics of CERCLIS sites in Region 7 as they are understood at the time of the PA.

1.2 GENERAL METHODOLOGY

EPA Regional contractor staff collected information for the CERCLIS characterization project by reviewing PA reports and other PA-level information found in EPA Regional site files. More detailed documentation from later stages of the site assessment process, such as SI reports, was not reviewed. Sites with inadequate PA-level information were not included in the project.

The CERCLIS characterization project was based on a randomly selected sample of CERCLIS sites. To avoid possible Regional bias, a fixed percentage — approximately 8% — of each Region's sites was chosen for review. However, because of the small number of sites in Regions 8 and 10, a higher percentage of sites from these Regions was selected. A total of 2,386 sites was evaluated. The table below indicates the number of sites evaluated for each Region.

The substantial uncertainty in PA-level information, the expected variability in the results across sites, and the varying number of CERCLIS sites in each Region were taken into account when the sample size was

NUMBER OF SITES REVIEWED FOR CERCLIS CHARACTERIZATION PROJECT

Region	Number of Sites in CERCLIS	Number of Sites Reviewed	Percentage of Sites Reviewed
1	1,765	146	8.3%
2	2,876	226	7.9%
3	3,375	262	7.8%
4	4,691	362	7.7%
5	5,753	441	7.7%
6	3,750	288	7.7%
7	2,074	160	7.7%
8	916	133	14.5%
9	3,029	234	7.7%
10	1,232	134	10.9%
TOTAL	29,461	2,386	8.1%

determined. EPA decided that a sampling error of 10% would be acceptable, as long as there was a reasonable likelihood (i.e., 90%) that sampling error would not exceed this level. Thus, the sample size was chosen to give 90% certainty that estimation errors due to sampling would be 10% or less.

1.3 RESULTS

The results of this report are presented in chart form in Chapters 3 through 8. These charts include information about: site description, owner/generator, regulatory and response history, waste description, site environment, and water use. The box at the bottom of this page provides information to assist the reader in interpreting the charts.

Listed below are notable findings *based on the sample of Region 7 sites* in the CERCLIS characterization project.

- A third of the sites are located in rural areas; 36% are located in urban areas (Chart 1).
- Nearly 20% of the sites manage(d) wastes in industrial landfills; about 30% manage(d) wastes in drums and/or containers (Chart 4).
- Over half of the sites are owned by private industry; a third are owned by private individuals (Chart 8).
- Approximately 60% of the sites are active facilities (Chart 10).
- Nearly 60% of the sites contain wastes generated by manufacturing industries (Chart 11).
- More than half of the sites are recommended for further action (Chart 20).

1.4 ORGANIZATION OF DOCUMENT

This document consists of eight chapters and two appendices. Chapter 2 provides more detailed information on data collection activities and includes the data collection form and instructions. Chapters 3 through 8 present the results in chart form. Appendix A lists all of the individual responses for the "other" response category, which are not displayed separately on the charts in Chapters 3 through 8. Appendix B contains a map that shows the locations of the Region 7 sites in the CERCLIS sample.

INFORMATION ABOUT THE CHARTS

- Data were generated by reviewing the files of a sample of Region 7 CERCLIS sites between October 1988 and February 1989. Except where noted, charts depict information for all 160 sites reviewed — approximately 7.7% of the 2,074 Region 7 sites in CERCLIS as of September 1988.
- PA-level information served as the primary source of information.
- Percentages on some charts do not total exactly 100 percent due to rounding.
- Percentages on some bar charts total to greater than 100 percent because multiple responses to certain questions were possible.

CHAPTER 2: DATA COLLECTION METHODS

Before the CERCLIS characterization project, information on CERCLIS sites was primarily accounting data and significant program milestones (e.g., completion date of the PA). The project compiled site-specific information on the characteristics of CERCLIS sites. This chapter describes the data collection activities. The table on the next page summarizes the process used to collect data.

2.1 DATA COLLECTION PROCEDURES

After developing the overall approach to the CERCLIS characterization project, EPA prepared a data collection form (see Section 2.4). The form was designed to capture important site-specific information needed for characterization. An instruction manual (see Section 2.5) was developed to promote consistency and accuracy in data collection. *The data collection form and instruction manual should be consulted for a full explanation of the definitions used in the report.* Data collection procedures were tested on Region 10 sites. As a result, a few modifications were made to the data collection form. The modified form, as shown in Section 2.4, was used in Region 7 as well as the other eight Regions.

2.2 SOURCE OF DATA

EPA Regional contractor staff answered the questions on the data collection form using PA-level information in Regional site files because only PA-level information is common to all CERCLIS sites. Many CERCLIS sites are classified as NFRAP after the PA, and, therefore, using information from SIs and HRS packages would bias the characterization toward the worst sites in CERCLIS. After data for all the sample sites were collected and verified, the Headquarters project team compiled one national data base. The data base was then analyzed to calculate response frequencies for each of the data fields.

2.3 QUALITY ASSURANCE/ QUALITY CONTROL

EPA performed extensive quality assurance/quality control (QA/QC) checks on all the data collection forms completed for the project to ensure accuracy and consistency. The first level of QA/QC was conducted at the Regional office, followed by a second level QA/QC at EPA Headquarters. After information on the data collection forms was entered into the data base, the data base was reviewed to ensure that the information had been properly transferred. In addition, the charts produced for this and all other reports were checked for consistency with the data base.

PROCESS USED TO COLLECT DATA

TASK	DESCRIPTION
Training	Headquarters project team travels to Region to train Field Investigation Team (FIT) in data collection/QA procedures.
Data Collection/First Level QA/QC	FIT collects data and performs first level QA/QC.
Second Level QA/QC	Headquarters project team reviews data collected in Region for consistency.
Data Entry/ Verification	Headquarters project team enters information on data collection forms into data base, then verifies that information on forms has been properly transferred to data base.
Third Level QA/QC	Headquarters project team reviews information in Regional data bases for completeness, consistency, and accuracy.
Statistical Analysis	Headquarters project team compiles Regional data bases into national data base, then performs statistical analysis of data to calculate response frequencies displayed in charts.

2.4 DATA COLLECTION FORM

CERCLIS Statistics Data Collection Form

General Instructions: *An entry must be made for every item on this form. Fill in blanks and/or check the appropriate box(es) as indicated.*

RECORD INFORMATION

1) **Site Number**: (fill in) _____

2) **Source of Information**: (check all that apply and enter PA date)
- ☐ PA Form PA Date __ __ / __ __ / __ __ mm/dd/yy
- ☐ PA Report ☐ Other (fill in) _____

3) **Form Completed By**: (fill in) _____
Organization: (fill in) _____

4) **Unacceptable Site File Characteristics** (check all that apply)
- ☐ *Little or No Information*
- ☐ *Federal Facilities*
- ☐ No PA Report or Form
- ☐ Site Not Found

SITE DESCRIPTION

1) **Coordinates** (fill in or check unknown)

__ __ ° __ __ ' __ __ . __ " N. Latitude __ __ __ ° __ __ ' __ __ . __ " W. Longitude ☐ Unknown

2) **Setting** (check one)
- ☐ Urban
- ☐ Rural
- ☐ Suburban
- ☐ Unknown

3) **Location Land Use/Site Use** (check all applicable local/adjacent uses)
- ☐ Industrial Area
- ☐ Commercial District
- ☐ Residential
- ☐ Agricultural
- ☐ Forest/Fields
- ☐ Unknown
- ☐ Other (fill in) _____

4) **Current Ownership** (check one)
- ☐ Private - Industrial
- ☐ Private - Individual
- ☐ Federal
- ☐ State
- ☐ County
- ☐ Municipal
- ☐ Indian Lands
- ☐ Unknown
- ☐ Other (fill in) _____

5) **Ownership When Contaminated** (check one)
- ☐ Private - Industrial
- ☐ Private - Individual
- ☐ Federal
- ☐ State
- ☐ County
- ☐ Municipal
- ☐ Indian Lands
- ☐ Unknown
- ☐ Other (fill in) _____

6) **Area of Site** (fill in and check units or check unknown)
_____
- ☐ Acres
- ☐ Square feet
- ☐ Unknown

7) **Site Status** (check one)
- ☐ Active
- ☐ Inactive
- ☐ Unknown
- ☐ Other (fill in) _____

8) **Years of Operation** (fill in or check unknown)
from _____ (yr) to _____ (yr)
- ☐ Unknown

9) **Industry Responsible for Generating Material** (check all that apply)
- ☐ *Manufacturing (if checked, must check one of sub-items)*
  - ☐ Food and Kindred Products
  - ☐ Agriculture
  - ☐ Textile Mill Products
  - ☐ Lumber and Wood Products
  - ☐ Paper and Allied Products
  - ☐ Construction
  - ☐ Chemicals and Allied Products
  - ☐ Petroleum Refining and Related Industries
  - ☐ Rubber and Plastic Products
  - ☐ Primary Metals Industries
  - ☐ Fabricated Metal Products
  - ☐ Electronic and Electrical Equipment
  - ☐ Electric Power Production and Distribution
- ☐ Mining
  - ☐ Metals
  - ☐ Coal
  - ☐ Oil and Gas
  - ☐ Non-metallic Minerals
- ☐ Oil and Gas Pipelines
- ☐ Coal Gasification
- ☐ Retail Sales
  - ☐ Gasoline Stations
  - ☐ Dry Cleaners/Launderers
  - ☐ Pesticide Formulators
- ☐ Unknown
- ☐ Other (fill in) _____

10) **Site Activities/Waste Deposition** (check all that apply)
- ☐ Surface Impoundment (primarily liquid)
- ☐ Waste Piles (primarily solid)
- ☐ Municipal Landfill
- ☐ Industrial Landfill
- ☐ Industrial Monofill
- ☐ Industrial Dump (illegal)
- ☐ Open Dump - Drums
- ☐ Open Dump - Trash, White Goods, etc.
- ☐ Episodic Open Dump ("midnight dumping")
- ☐ Tanks - Above Ground
- ☐ Tanks - Below Ground
- ☐ Tanks - Wastewater
- ☐ Septic Tanks
- ☐ Land Treatment Facility
- ☐ Sewage Sludge Lagoons
- ☐ Sludge Spreading
- ☐ Recycling Facility
- ☐ Underground Injection Well (Class if known _____)
- ☐ Airborne Release
- ☐ Drum/Container Storage
- ☐ Spill
- ☐ Field Pesticide Applications
- ☐ Unknown
- ☐ Other (fill in) _____

Continued on Next Page

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CERCLIS Statistics Data Collection Form

SITE DESCRIPTION (CONTINUED)

11) **How Identified** (check all that apply)
- ☐ Citizen Complaint
- ☐ Inspection/Assessment Activity
  - ☐ RCRA Notification
  - ☐ CERCLA Notification
  - ☐ State/Local Program
  - ☐ Incidental
- ☐ Unknown
- ☐ Other (fill in) _____

12) **Material Deposited By** (check one)
- ☐ Present Owner
- ☐ Former Owner
- ☐ Unknown
- ☐ Other (fill in) _____

14) **Material Source** (check one)
- ☐ Onsite Generator
- ☐ Offsite Generator
- ☐ Onsite and Offsite Generator
- ☐ Unknown

13) **Date Discovered** (fill in or check unknown)
__ __ / __ __ / __ __ (mm/dd/yy)
☐ Unknown

15) **Waste Easily Accessible** (check one)
☐ Yes ☐ No ☐ Unknown

16) **Further Action Recommended** (check one)
☐ Yes ☐ No ☐ Unknown

WASTE DESCRIPTION

1) **Descriptive Information** (if this question does not apply, check box at right) ☐
☐ No Waste Ever Present ☐ No Waste Deposition Evident ☐ De minimis Waste ☐ Total Removal of Waste ☐ Single Event

2) **Solids - Waste Type**: (check all that apply)
- ☐ None
- ☐ Unknown
- ☐ Hazardous (if checked, must check one of sub-items)
  - ☐ Pesticides/Herbicides
  - ☐ Metals
  - ☐ Asbestos
  - ☐ Smelting Wastes
  - ☐ Laboratory/Hospital Wastes
  - ☐ Paints/Pigments
  - ☐ Organic Chemicals
  - ☐ Inorganic Chemicals
  - ☐ Unknown
  - ☐ Other (fill in) _____

☐ Non-Hazardous Wastes (if checked, must check one of sub-items)
- ☐ Municipal
- ☐ Industrial/Commercial
- ☐ Construction Debris
- ☐ Fly and Bottom Ash
- ☐ Mining Wastes
- ☐ Unknown
- ☐ Other (fill in) _____

Quantity/Units: (fill in one value for all solid wastes and check units or check unknown)
☐ Unknown
_____ ☐ Tons ☐ Cubic Yards ☐ Pounds ☐ Cubic Feet

3) **Liquids - Waste Type**: (check all that apply)
- ☐ None
- ☐ Unknown
- ☐ Hazardous (if checked, must check one of sub-items)
  - ☐ Oily Wastes
  - ☐ Acids/Bases
  - ☐ Pesticides/Herbicides
  - ☐ Solvents
  - ☐ PCBs
  - ☐ Metals
  - ☐ Laboratory/Hospital Wastes
  - ☐ Paints/Pigments
  - ☐ Organic Chemicals
  - ☐ Inorganic Chemicals
  - ☐ Unknown
  - ☐ Other (fill in): _____

☐ Non-Hazardous Wastes (if checked, must check one of sub-items)
- ☐ Municipal
- ☐ Industrial/Commercial
- ☐ Unknown
- ☐ Other (fill in) _____

Quantity/Units: (fill in one value for all liquid wastes and check units or check unknown)
☐ Unknown
_____ ☐ Gallons ☐ Drums

4) **Sludges - Waste Type**: (check all that apply)
- ☐ None
- ☐ Unknown
- ☐ Hazardous (if checked, must check one of sub-items)
  - ☐ Oily Wastes
  - ☐ Metal Sludge
  - ☐ POTW Sludge
  - ☐ Organic Sludge
  - ☐ Inorganic Sludge
  - ☐ Unknown
  - ☐ Other (fill in) _____

☐ Non-Hazardous Wastes (if checked, must check one of sub-items)
- ☐ Municipal
- ☐ Industrial/Commercial
- ☐ POTW Sludge
- ☐ Unknown
- ☐ Other (fill in) _____

Quantity/Units: (fill in one value for all sludges and check units or check unknown)
☐ Unknown
_____ ☐ Tons ☐ Cubic Yards ☐ Pounds ☐ Cubic Feet

Continued on Next Page

CERCLIS Statistics Data Collection Form

ENVIRONMENTAL / DEMOGRAPHIC INFORMATION

1) Demographics

a) Distance to Nearest Population (fill in and check units or check unknown)

_____ ☐ Feet, ☐ Miles or ☐ Unknown

b) Population Within One Mile? (check yes, no or unknown. If yes, fill in number if known)

_____

☐ Yes ☐ No ☐ Unknown

c) Population Within Three Miles? (check yes, no or unknown. If yes, fill in number if known)

_____

☐ Yes ☐ No ☐ Unknown

2) Actual Environmental Damage Reported, Potential Population Affected (check yes, no, or unknown)

☐ Yes (if yes, check all applicable impacts. For those checked having a population affected column, enter potential affected population or print unknown)

	Potential Population Affected
☐ Surface Water Impacts (3 miles)	_____
☐ Ground Water Impacts (3 miles)	_____
☐ Drinking Water Impacts (3 miles)	_____
☐ Air Impacts (1 mile)	_____
☐ Human Health Impacts	_____
☐ Soil Impacts	
☐ Flora Impacts	
☐ Fauna Impacts	
☐ Visual Impacts	
☐ Other (fill in) _____	

☐ No

☐ Unknown

3) Water Supply Information for Three Mile Radius

a) Local Drinking Water Supply Source (check one)

☐ Surface Water
☐ Ground Water
☐ Surface and Ground Water
☐ Unknown
☐ Other (fill in) _____

b) Total Population Served by Above System (fill in or check unknown)

_____ or ☐ Unknown

c) Drinking Water Supply System Type (check all that apply)

☐ Municipal
☐ Private
☐ Unknown
☐ Other (fill in) _____

d) Ground Water Data:

Other Local Ground Water Uses (check all that apply)

☐ Irrigation
☐ Stock Watering
☐ Industrial Process/Cooling
☐ Unknown
☐ None
☐ Other (fill in) _____

Wells Within 1 Mile? (check yes, no or unknown. If yes, fill in number if known)

_____

☐ Yes ☐ No ☐ Unknown

Wells Within 3 Miles? (check yes, no or unknown. If yes, fill in number if known)

_____

☐ Yes ☐ No ☐ Unknown

Distance to Nearest Well (fill in and check units or check unknown)

_____ ☐ Feet, ☐ Miles or ☐ Unknown

Depth to Uppermost Used Aquifer (fill in or check unknown)

_____ (Feet) ☐ Unknown

e) Surface Water Data:

Other Local Surface Water Uses (check all that apply)

☐ Recreation
☐ Irrigation
☐ Stock Watering
☐ Industrial Process/Cooling
☐ Commercial Fishery
☐ Unknown
☐ None
☐ Other _____

Surface Water Adjacent to/Draining Site (check all that apply)

☐ Stream ☐ Wetland
☐ River ☐ Bay
☐ Lake ☐ Ocean
☐ Pond ☐ Unknown
☐ None
☐ Other _____

Distance to Nearest Downstream Intake (fill in and check units, or check unknown, not applicable, or none)

_____ ☐ Feet, ☐ Miles

☐ Unknown
☐ Not Applicable
☐ None

4) Ecological Information

Is Site In or Near Sensitive Environment? (check all that apply)

☐ Yes (if yes, check at least one sub-item and whether in or near that environment)

☐ Estuary ☐ In ☐ Near
☐ 100 Year Floodplain ☐ In ☐ Near
☐ Critical Habitat ☐ In ☐ Near
☐ Barrier Island/Coastal High Hazard Area ☐ In ☐ Near

☐ No

☐ Unknown

Continued on Next Page

CERCLIS Statistics Data Collection Form

REGULATORY AND RESPONSE HISTORY

1) **Regulatory Activities Prior to Preliminary Assessment**
(*check all that apply*)
- ☐ RCRA
- ☐ NPDES
- ☐ State/Local Regulations
- ☐ Emergency Action/TAT
- ☐ None
- ☐ Unknown
- ☐ Other _____
  _____

2) **Lead Agency for Preliminary Assessment:** (check one)
- ☐ EPA
- ☐ State
- ☐ Other

COMMENTS

(Briefly describe the nature of the facility/problem and any points of interest not adequately covered by this form.)

QA/QC (initial & date) _____
_____

Revision 2 10/31/88

2.5 DATA COLLECTION FORM INSTRUCTIONS[1]

The CERCLIS Statistics Data Collection Form has been designed to standardize hazardous waste site information for input into a data base. This data base will be used to perform a statistical characterization of waste sites in CERCLIS. A random sample of sites has been chosen for each Region, and the site files will be reviewed for data compilation. The CERCLIS Statistics Data Collection Form is designed so that all required information can be obtained by a review of preliminary assessment (PA) files. Only PA files are to be reviewed because all CERCLIS sites should have, at a minimum, a PA. Again, the goal of this study is to characterize CERCLIS sites, and a PA is the only type of investigation that is common to all CERCLIS sites.

It is important that all questions on the form are answered even if the appropriate answer is "unknown." Estimates based on best professional judgment are encouraged. In some cases, the response "other" can be used along with a brief narrative if the available choices do not adequately describe the site or situation. *RESPONDENTS ARE ENCOURAGED TO USE THE "OTHER" CATEGORY AS MUCH AS NEEDED.* Additional information to support the use of this category should be included in the "Comments" section at the end of the form.

The Data Collection Form contains six sections which are listed below. The name of the site should be written on the front in the top margin. The form should be completed in dark pencil so that later QA/QC corrections to the form will still result in an easily legible document for data entry purposes.

Section 1 - Record Information, which provides basic identification information;

Section 2 - Site Description, which describes the ownership, status, and history of the site;

Section 3 - Waste Description, which describes the type and quantity of waste present at the site;

Section 4 - Environmental/Demographic Information, which provides information on water supply, population, and environmental damage;

Section 5 - Regulatory and Response History, which covers any regulatory or remedial actions that occurred prior to the PA;

Section 6 - Comments, which provides space for a brief description of the site and comments on data availability or associated problems with completing the form.

Section 1 - Record Information

1. **Site Number**: This number is the record key, or primary identifier, for the site. It is essential that this number be entered correctly on the form. The site number is the 12-digit, EPA ID number for that site.

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[1] This section is a slightly edited version of the actual instruction manual that accompanied the data collection form.

2. **Source of Information**: This entry will identify the classes of PA-level information that were available for data collection. Only information normally collected in support of a PA can be used (exception: topographic maps from any source are permitted). The primary source of information should be the PA report. Additional information may be obtained from the PA form, usually completed at the same time as the PA report. The file may also contain a revised PA report and/or form and this type of information may be used in the data collection effort. Some files may not contain a PA, but contain enough PA-type information to complete the form. Enter the date of the most recent PA-type information used in "PA date." It is important that information dated *after* this date be excluded. (Using such information would bias the statistical analysis of the information in the CERCLIS data base.) Other data in the file such as letters or reports dated *prior* to this date may be used and recorded under the "other" entry.

3. **Form Completed By**: The data collector should enter his or her name and organization in the spaces provided. This will facilitate QA/QC review.

4. **Unacceptable Site File Characteristics**: The purpose of this data field is to identify the reasons for classifying a site as unacceptable. A file may be rejected from the data collection effort for the following reasons:

    a. The file contains little or no pertinent information collected at the PA stage.
    b. The file does not contain a PA report or form. If the file contains sufficient information to complete most of the data collection form, the file may be used. This determination is based in part on the evaluator's professional judgment.

    Unacceptable site files may contain sites with the following site characteristics. These additional items should be identified in this data field, if applicable.

    c. The site is a Federal facility. (Please note: A Federal facility is considered unacceptable only if there is not enough information to complete the form.)
    d. In some cases, the site could not be located during the investigation.

    This data field is the only one that need not be filled in. If the file contains enough information to complete the form, then this data field does not apply and should be left blank; go on to fill out the remainder of the form. However, if the site file is deemed unacceptable, check all the appropriate boxes in data fields #1-4 and stop. The remainder of the form should not be filled out. Go on to the next site file.

Section 2 - Site Description

1. **Coordinates**: Enter the coordinates, latitude and longitude, of the site in degrees, minutes, seconds, and tenths of seconds. If a tenth of a second is not available at the site, enter zero in the appropriate space. Because latitude and longitude provide necessary input for interaction with other data bases, it is particularly important that these values be provided. If they are not available, leave blank and check "unknown." In this situation, supply enough information (for example,

township and range) on the site location in the "Comments" portion of the form to locate the site at another time. An area map may be attached if available. Further, if the values reported in the PA are known to be incorrect, please comment on this and provide the correct coordinates if available. For this data field only, information dated after the "PA date" may be used to obtain the correct coordinates.

2. **Setting**: Check the appropriate box to indicate the character of the area surrounding the site. "Urban" indicates central city areas, "suburban" indicates sites within metropolitan areas, and "rural" indicates sites outside metropolitan areas. Select the one setting that best describes the site. This information may be derived from the PA or from an accompanying map. Generally, the number of homes and/or industrial buildings indicated on a map may be used to estimate the site setting. Since the character of the area is relative to the population density, a site in the *center* of a city like Roanoke Rapids, which is located in rural North Carolina, would be classified as "urban."

3. **Location Land Use/Site Use**: The predominant land uses within approximately 1 mile of the site location should be determined and all appropriate descriptions checked. This information may be obtained from the PA report text or from an accompanying map. If the "other" category is used, provide information so that QA/QC or data entry reviewers can determine the appropriate category. For consistency, the following descriptors should be used, when appropriate, for the "other" category:

   - park (park, parks, parks and recreation, etc.)
   - school

   The following site uses, past or present, should also be identified in the "other" category:

   - railroad (railroad yard, rails, rail yard, etc.)
   - airport (airstrip, runways, etc.)
   - mining
   - military

4. **Current Ownership**: Check the appropriate box to indicate the type of ownership of the site at the time the PA was performed. For purposes of this data field, ownership refers to owners and/or operators. If the property is leased, check the box which best describes the operator of the site unless the property is leased from a government entity. In this case, the government entity should be identified on the form. Make a note that the site is located on leased property in the "Comments" section.

5. **Ownership When Contaminated**: Check the appropriate box to indicate the type of site ownership at the time of contamination. As in item #4, ownership refers to owner and/or operator. If the property is leased, follow the procedure described in item #4. Sites that are not, or have never been, contaminated should be identified in the "other" category.

6. **Area of Site**: Indicate the area of the site, along with the appropriate units, which was/is contaminated, or check "unknown" and leave blank. If a map accompanies the PA, it can be used to estimate the area of contamination. Use 0.1 square feet as a default value to indicate that no waste was found. If the area of the site is reported as a range, use the midpoint of the range. Again, this data field is intended to capture the area of contamination. So, for example, if there is a large facility but only a small area is actually contaminated, only the area of contamination should be entered. If the specific area of contamination is unknown, use the area of the facility, if reasonable (use best professional judgment), and note this in the "Comments" section.

7. **Site Status**: Check the appropriate box to indicate the status of the site at the time of the PA, not at the time of contamination. Active sites are those which treat, store, or dispose of hazardous materials/wastes. Sites that have changed ownership or operations are still considered active if the new operations involve hazardous materials/wastes. Inactive sites are those at which treatment, storage, or disposal activities no longer occur. Check "active" for those sites that currently have both active and inactive storage or disposal units.

8. **Years of Operation**: Enter the beginning and ending years of waste treatment, storage, and/or disposal at the site. If operations at the site are ongoing, enter the PA date for the ending date. Check "unknown" if the beginning and/or ending years of operation are not known. For consistency, if waste activities occurred during only one year (e.g., one-time event, accidental spill), the years of operation of the facility should be entered.

9. **Industry Responsible for Generating Material**: Check all boxes that indicate industries responsible for generating the wastes that occur at the site. This refers to the industry responsible for the *waste*, not the original product. For example, if a hardware store has drums of pesticides which leak, the responsible industrial category is "retail" and not "manufacturing." If not all of the waste can be associated with specific industries, it is appropriate to also check "unknown." It is important to try to categorize the industry into one of the types listed for statistical analysis. If these listed industry types aren't applicable, check "other." Further information may be provided under the "Comments" section of the Data Collection Form. Some brief, and by no means inclusive, examples of the types of industries that may be grouped into broader general categories listed on the form include:

   - manufacturing - agricultural: tractor manufacturing, seed treating, *organic* fertilizer production
   - manufacturing - fabricated metals: car manufacturing plants, metal plating industries
   - mining - oil and gas: drilling muds

   For the majority of cases, the "other" category should be used if a specific general or subcategory of another type is not obvious. Examples of "other" categories include:

   - military
   - DOE
   - POTW
   - recycling
   - storage facility
   - municipal landfill

One special case involves municipal landfills. Often, not all of the industries responsible for generating the waste material deposited in a municipal landfill are known. In this situation, check those industries that are known and also check "other" with the notation "municipal landfill."

10. **Site Activities/Waste Deposition**: Check the appropriate boxes to indicate what type of treatment, storage, or disposal operations occur/occurred at the site. Select all of the appropriate waste deposition activities that are found at the site. Also, if product or feedstock storage occurs at the site, identify this in the "other" category. With respect to "tanks," if the type of tank is not known, assume above ground unless the site is a gasoline retail station. "Airborne release" should be checked if an incinerator, boiler, fire pit, excessive dust, etc., are present at the site. "Industrial monofill" should be checked when only one specific waste type is landfilled at the site. For example, if an industry generates only one kind of waste, and this waste is the only waste that is deposited in the landfill, then industrial monofill should be checked. "Industrial dump," on the other hand, refers to those situations where waste was/is dumped "out the back door" (e.g., release of wastes directly to the ground). Once again, try to categorize the activities or check "other" and supply a description. Examples of "other" categories include:

    - fire pit
    - uncontrolled liquid releases to sewer system
    - product/feedstock storage

11. **How Identified**: Check the appropriate box to indicate how the site was initially identified to the EPA Superfund Program. Note that there are major categories and subcategory boxes that need to be checked. Examples of possible "other" categories include:

    - congressional inquiry (e.g., Eckhardt List)
    - ERRIS listing

12. **Material Deposited By**: In indicating the source of the material, please note that the categories for "owner" are intended to include "operators," or whoever is responsible for the facility. Examples of the "other" category include:

    - no contamination/waste deposition evident
    - present *and* former owner

13. **Date Discovered**: Enter two digits for the month, day, and year that the site was identified to the EPA Superfund Program. For example, June 27, 1982 would be entered as 06/27/82. Because date discovered refers to the date that Superfund became aware of the site, dates prior to 1980 are usually not acceptable. In the event that the day or month is unknown, use "01" as the default value, for each. If the date cannot be determined, check "unknown."

14. **Material Source**: Indicate whether the waste material was generated on site and/or off site, as appropriate.

15. **Waste Easily Accessible**: Indicate whether or not the waste is easily accessible to the general public. On-site workers should not be included for this data field. Items to be considered in judging accessibility include complete cover over the site or a secure fence around the site. For example, waste material exposed at the surface in a park or playground is easily accessible, while waste exposed at the surface of a site surrounded by a locked chain-link fence is not easily accessible.

16. **Further Action Recommended**: If the PA indicates whether further action, under any regulatory program, should be undertaken, include the recommendation as a "yes" or "no" answer. Identify the specifics of the recommended action in the "Comments" section. If no recommendation is made either way, check "unknown."

Section 3 - Waste Description

1. **Descriptive Information**: These items should be checked in the event that no waste was deposited at the site, no waste was evident at the site, a de minimis amount of waste was generated at the site, or the waste previously deposited was totally removed. These choices may be made if the file is comprehensive enough to complete most of the form even though the site does not contain a reportable quantity of waste. This item will provide an idea of the sites in CERCLIS that may not contain significant quantities of waste. If these categories do not apply (i.e., there is/was a significant quantity of waste at the site), please check the box directly to the right of the data field heading. Even if one of these categories is checked, the remainder of Section 3 must be completed.

For data fields #2-4, wastes have been divided into three major groupings based on the physical state of the waste: solid, liquid, and sludge. The presence of each of these states at the site needs to be determined. Each waste state grouping has been further divided into four categories: "none," "unknown," "hazardous," and "non-hazardous." The procedure for completing this section is as follows, and should be followed for each waste state.

2-4 **Solids, Liquids, Sludges**: First determine if the particular waste state being evaluated ("solid" will be used here as an example) is/was present at the site. If solid wastes are/were not present, check "none." If it cannot be determined whether solid wastes are/were present, then check "unknown." If hazardous and/or non-hazardous solid wastes are/were present, then check "hazardous" and/or "non-hazardous" and also check all of the subcategories that are necessary to characterize the particular waste stream. It should be noted that it is possible to be certain that solid wastes were disposed of at the site, but to be unsure of the particular waste stream. In this situation, check the major headings "hazardous" and "non-hazardous" and then also check the subcategory "unknown." If the subcategories listed are not sufficient to characterize the particular waste stream, check "other." As with the previous sections, the evaluator should try to use the categories presented if possible, or check "other" and provide a brief description in the "Comments" portion. Examples of common "other" descriptors include:

- explosives
- radioactive
- dust
- agricultural
- oil/petroleum production
- drilling muds (sludge)
- scrubber waste (sludge)

In some cases, it may not be easy to distinguish between "hazardous" and "non-hazardous" for the waste type. In these cases, professional judgment is encouraged. If an evaluator believes that hazardous waste may reasonably be present in an otherwise non-hazardous waste stream, the evaluator should check both "hazardous" and "non-hazardous." The waste streams within these categories should also be identified using best professional judgment.

Some examples of this situation arise in evaluating the waste stream for municipal landfills or foundry sands. For municipal landfills, under solids, the "hazardous" box would be checked along with the corresponding subcategory box "unknown." In addition, the "non-hazardous" box would be checked along with the corresponding subcategory box "municipal." For foundry sands under solids, "hazardous" and "metals" would be checked along with "non-hazardous" and "other" - foundry sands.

Section 4 - Environmental/Demographic Information

1. **Demographics**:

   a. **Distance to Nearest Population:** If known, provide the distance from the site boundary to the nearest population. Also, indicate the unit of measure that was used. Population includes those persons occupying houses, apartment buildings, schools, and businesses, as well as the temporary population (e.g., workers). Use maps, if available, to provide best estimates. If there is an on-site population, use 10 feet as a default value.

   b. **Population Within 1 Mile?:** If there is a population within 1 mile of the site, check "yes" and enter the number of people within this radius. When a reasonable estimate for the number of people in the population is unknown, check "yes" and leave the number field blank. A map, if available, may be used to determine if there is a population. If this information is not in the file, check "unknown."

   c. **Population within 3 Miles?:** If there is a population within 3 miles of the site, check "yes" and enter the number of people within this radius. When a reasonable estimate for the number of people in the population is unknown, check "yes" and leave the number field blank. Again, a map may be used if available. If this information is not in the file, check "unknown."

   NOTE: If the site is active, then there are on-site workers and the 10 ft. default value should be used for distance to nearest population. Also, this means that population within 1 and 3 miles is automatically "yes."

2. **Actual Environmental Damage Reported, Potential Population Affected**: Indicate whether actual environmental damage has been reported at this site. Note that this does not include potential damage, only documented cases of actual impacts. For example, if during the PA leachate was observed entering an adjacent stream or wetland, this can be considered an actual environmental impact. If "yes," indicate the type of damage that was reported and estimate the population that could potentially be affected. If the potential population is not known, write "unknown" in the space provided.

3. **Water Supply Information for a 3-Mile Radius**:

a. **Local Drinking Water Supply Source**: Identify whether drinking water supplies are drawn from surface water and/or ground water within 3 miles of the site. If, for example, the local area has a municipal system fed by surface water but some houses still use wells, then check "surface and ground water." If all drinking water sources are outside of the 3-mile radius, this should be noted in "other."

b. **Total Population Served**: If available, provide the number of people served by the water supply system. Note that this population should reflect the population *served by* a source within 3 miles of the site; it may be more or less than the total population within 3 miles. For example, if a well located two miles from the site is used to serve the population of a city of 60,000, the entire population should be included even if the city is outside of the 3-mile radius. If there is no drinking water population (all sources are outside 3-mile radius), use a default value of 1.

c. **Drinking Water Supply System Type**: Indicate the type of water supply system for the surrounding area. "Municipal" should be indicated for any central water supply system, even if it is operated by a private water company, utility, or individual (e.g., trailer park serviced by one privately owned well).

d. **Ground Water Data**: Check all appropriate boxes for predominant uses of ground water other than drinking water supply. Monitoring wells should be ignored. Some examples of "other" uses include:

- agricultural
- dust control

Wells Within 1 Mile?: If there are operable wells within 1 mile of the site, check "yes" and indicate the total number of wells used for any purpose. Monitoring wells should not be considered for this data field.

Wells Within 3 Miles?: If there are operable wells within 3 miles of the site, check "yes" and indicate the total number of wells used for any purpose. Again, monitoring wells should not be considered.

Distance to Nearest Well: Provide the distance from the site boundary to the nearest operable well, excluding monitoring wells. Indicate what units of measure were used. If the well is located on site, use 10 feet as a default value.

Depth to the Uppermost Used Aquifer: Provide the depth beneath the ground surface to the uppermost aquifer that is or may be used. In many cases, this will be the depth to the water table. If the uppermost aquifer is contaminated but not used, and a deeper aquifer is used, the distance stated should reflect the distance to the *deeper* aquifer. An exception to this is if the contamination is due, or may be due, to site activities. In this case, provide the depth to the uppermost (contaminated) aquifer. Always indicate the units of measure used.

If a range of depth is given, use the midpoint value for the data field. Use a default value of 1 foot if the site is located in the water table.

e. **Surface Water Information for 3-Mile Radius**:

Other Local Surface Water Uses: Check all appropriate boxes for uses of surface water within the 3-mile radius, other than use for drinking water supply.

Surface Water Adjacent to/Draining Site: Identify all types of surface water adjacent to or draining the site that could potentially be affected by overland runoff from the site. Use professional judgment and HRS definitions as necessary.

Distance to Nearest Downstream Intake: Provide the distance to the nearest downstream intake in feet or miles, if known.

4. **Ecological Information**:

Is Site in or Near Sensitive Environment?: Sensitive environments are defined as estuaries, 100-year floodplains, critical habitats (designated only), and some coastal areas. If the site is in or near one of these environments, indicate the type of sensitive environment and whether the site is "in" or "near" that environment. "Near" is considered to be within a 3-mile radius.

Section 5 - Regulatory and Response History

1. **Regulatory Activities Prior to Preliminary Assessment**: Indicate any regulatory activities that occurred at the site prior to the PA. Examples of these activities could include RCRA notification or inspections, NPDES exceedences, and/or state health department inspections of landfills.

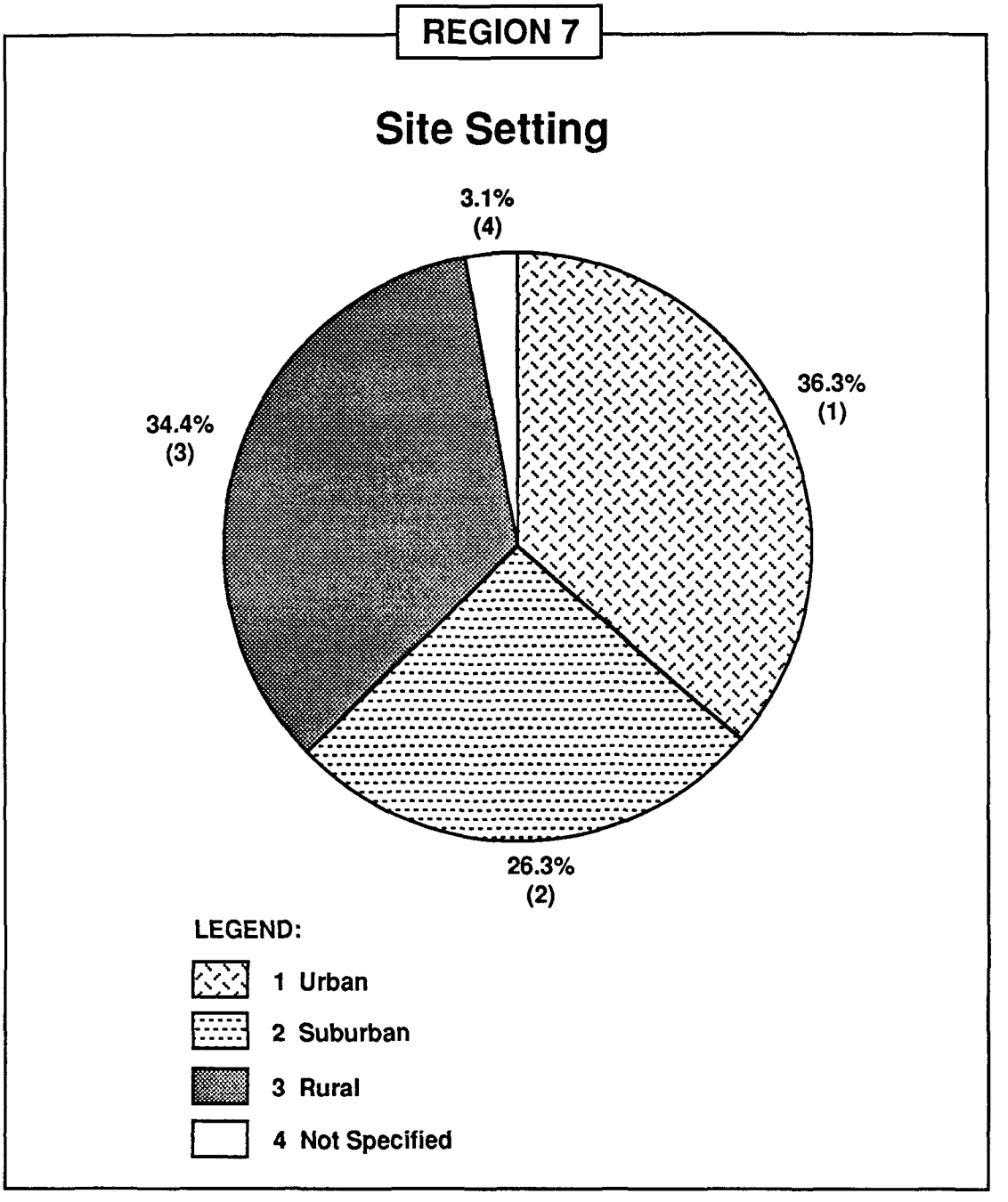
2. **Lead Agency for Preliminary Assessment**: Indicate which agency performed the most recent PA for the site. Check "EPA" if the most recent PA was performed by FIT.

Section 6 - Comments

This section is *not* an optional segment of the data collection form. The "Comments" section *must* be completed, at a minimum, with a brief narrative description of the site conditions, including any discussion or clarification of the information presented elsewhere on the form. Justification may also be provided on the inclusion of a file from the review process. In addition, each form must be quality control checked for completeness, and initialed by another evaluator in the lower right corner of page 4. The comments section is a crucial component of the data collection form; verbosity is encouraged.

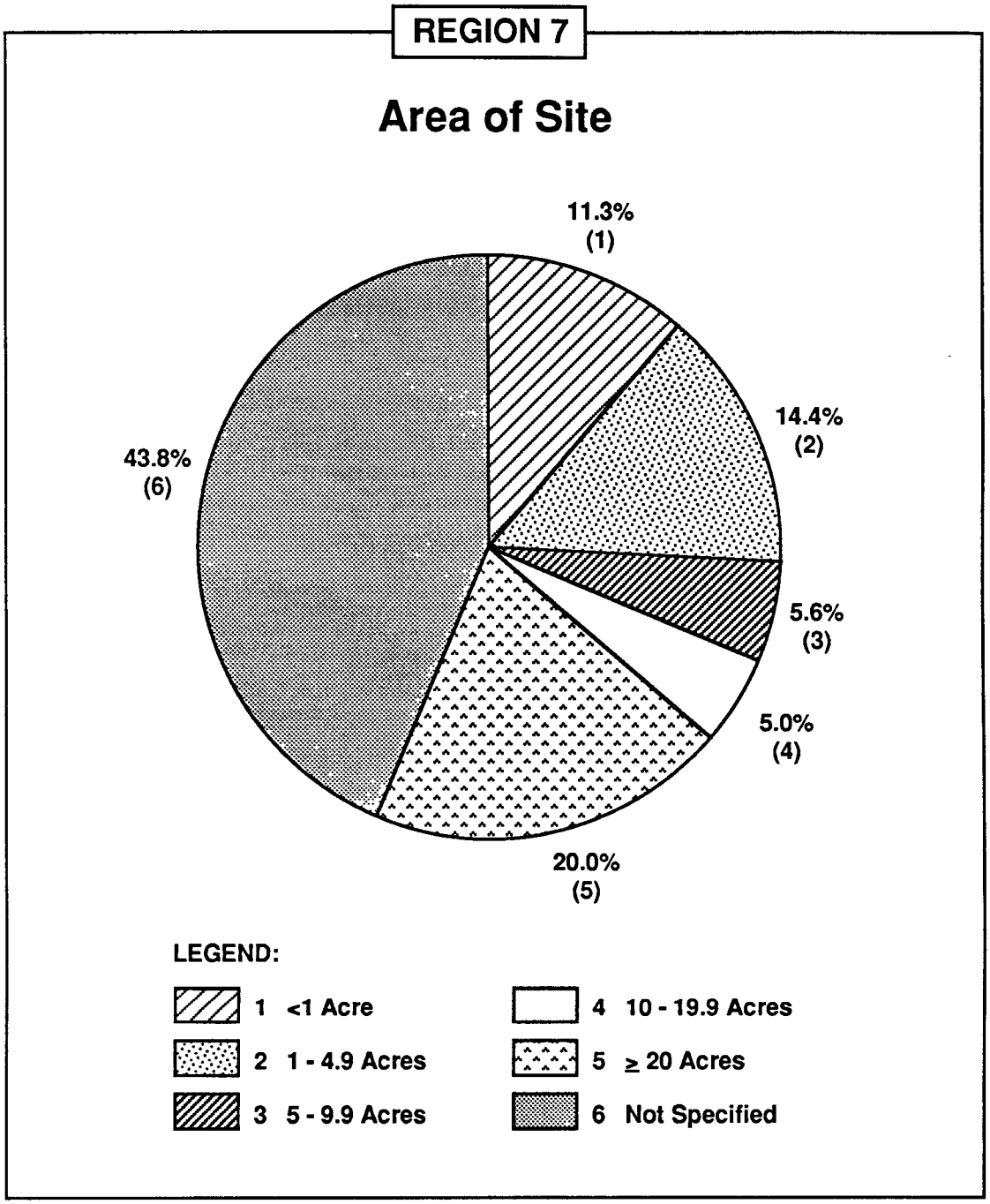
CHAPTER 3: SITE DESCRIPTION

- **Chart 1:** Site Setting
- **Chart 2:** Area of Site
- **Chart 3:** Predominant Land Uses in Site Vicinity
- **Chart 4:** Treatment, Storage, or Disposal Activities Occurring at Site
- **Chart 5:** Waste Easily Accessible to Public
- **Chart 6:** Population Within 1 Mile
- **Chart 7:** Population Within 3 Miles



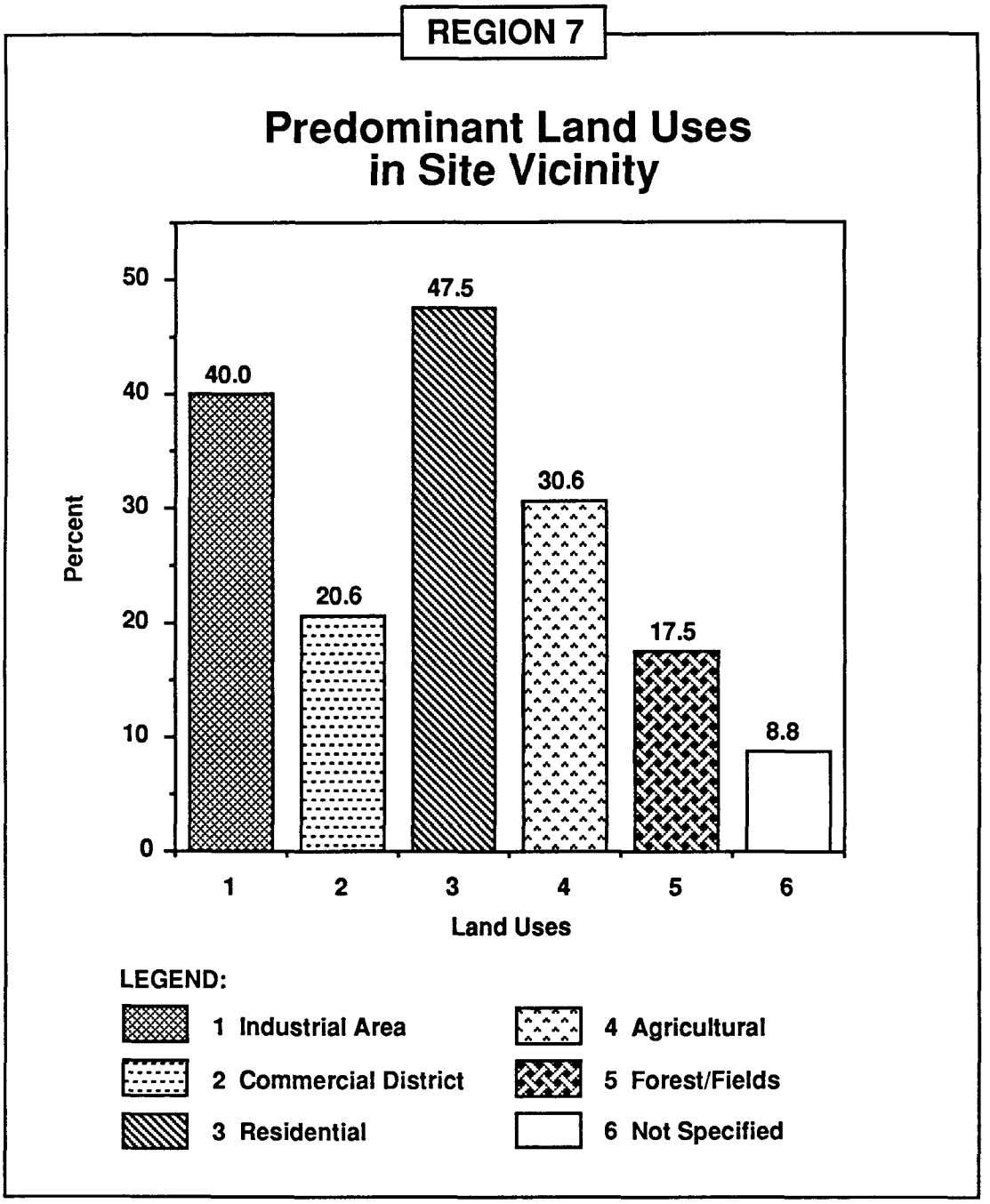
Note: This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Site Description Section, Question 2, Setting.

Chart 1



Note: This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Site Description Section, Question 6, Area of Site.

Chart 2

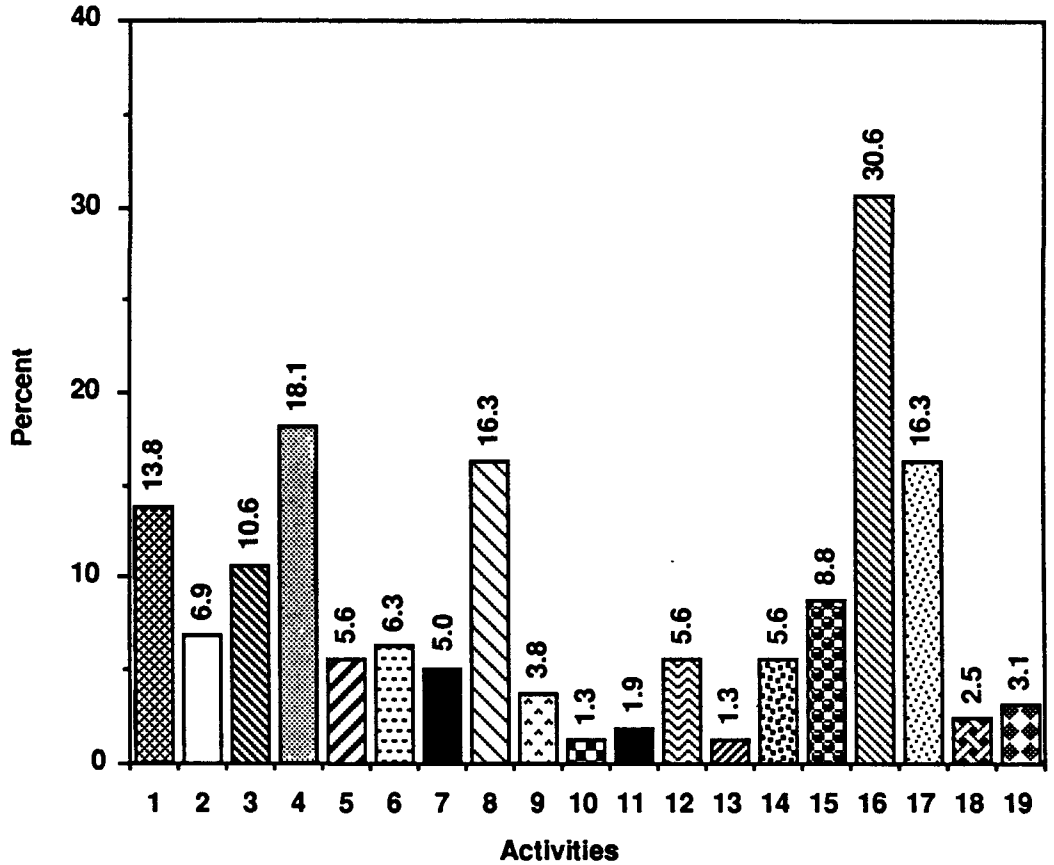


Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Site Description Section, Question 3, Location Land Use/Site Use.
(2) See Appendix A for a complete listing of "Other" responses.

Chart 3

REGION 7

Treatment, Storage, or Disposal Activities Occurring at Site



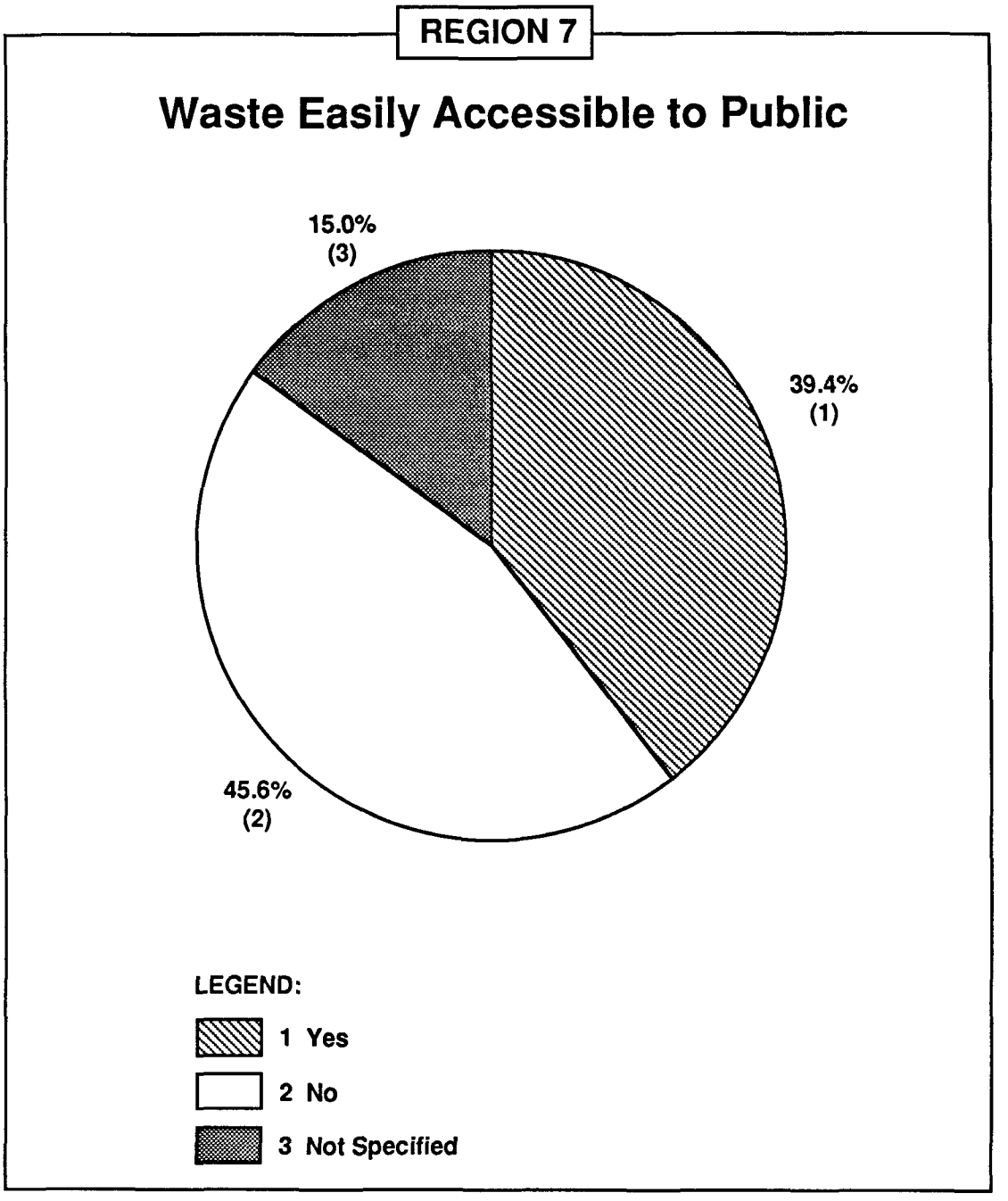
LEGEND:

- 1 Surface Impoundment
- 2 Waste Piles
- 3 Municipal Landfill
- 4 Industrial Landfill
- 5 Open Dump - Drums
- 6 Open Dump - Trash, White Goods, Etc.
- 7 Episodic Open Dump
- 8 Tanks - Above Ground
- 9 Tanks - Below Ground
- 10 Tanks - Wastewater
- 11 Land Treatment Facility
- 12 Sludge Spreading
- 13 Recycling Facility
- 14 Underground Injection Well
- 15 Airborne Release
- 16 Drum/Container Storage
- 17 Spill
- 18 Field Pesticide Application
- 19 Not Specified

Not Shown - Septic Tanks (0.0%), Sewage Sludge Lagoons (0.6%)

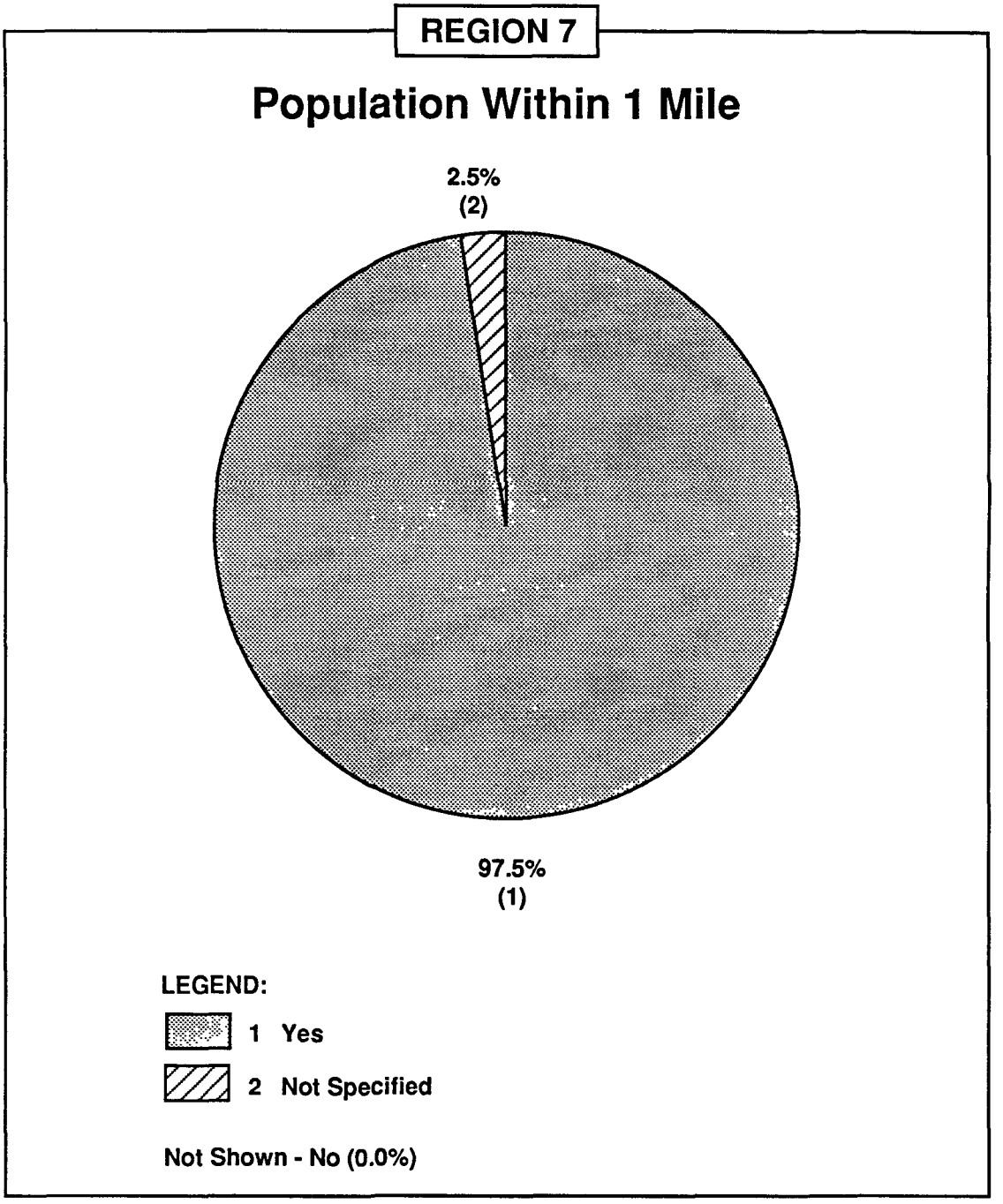
Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Site Description Section, Question 10, Site Activities/Waste Deposition.
(2) See Appendix A for a complete listing of "Other" responses.
(3) Tanks were assumed to be above ground unless otherwise specified.

Chart 4



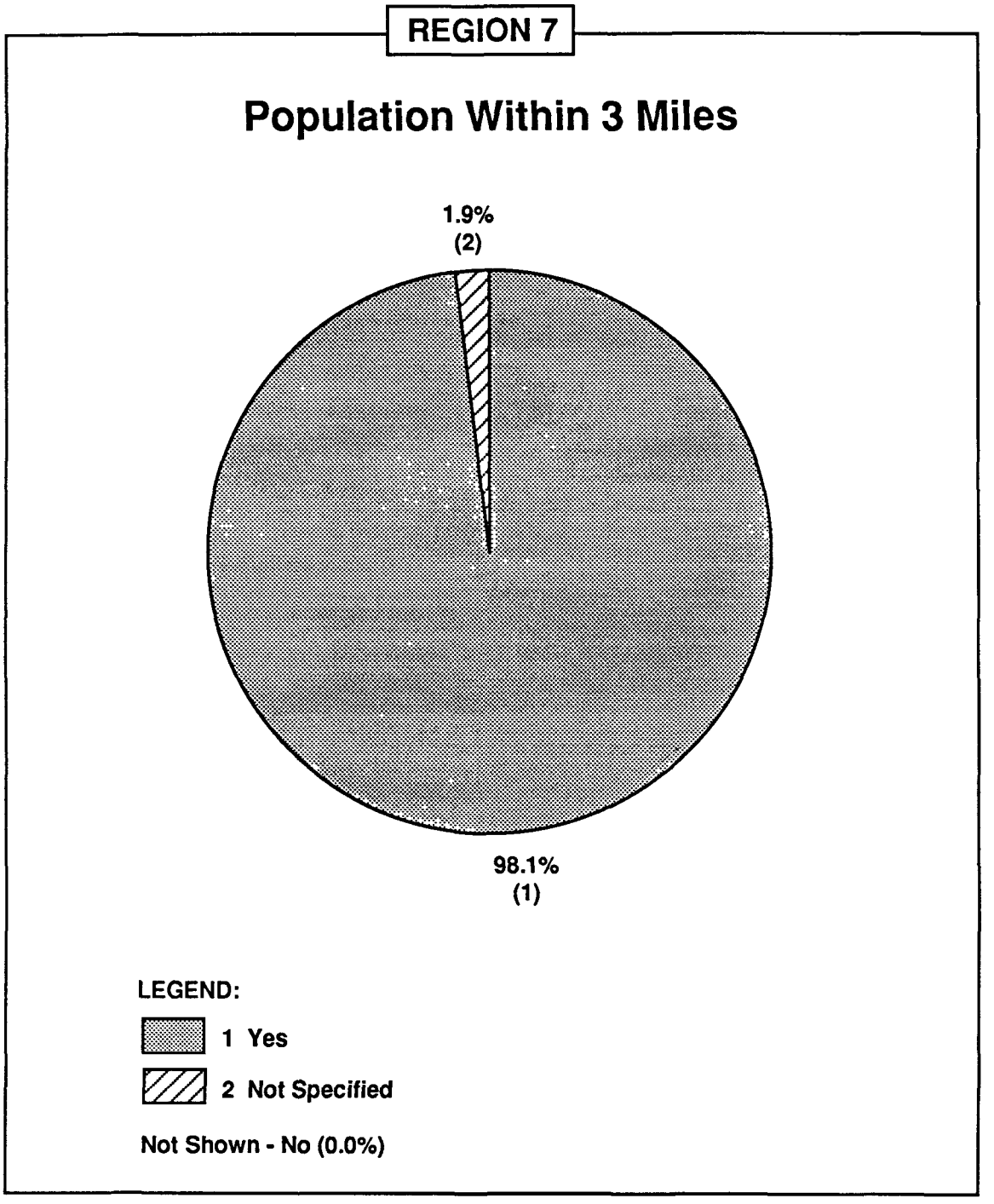
Note: This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Site Description Section, Question 15, Waste Easily Accessible.

Chart 5



Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Environmental/Demographic Information Section, Question 1b, Population Within 1 Mile.
(2) On-site workers are included.

Chart 6



Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Environmental/Demographic Information Section, Question 1c, Population Within 3 Miles.
(2) On-site workers are included.

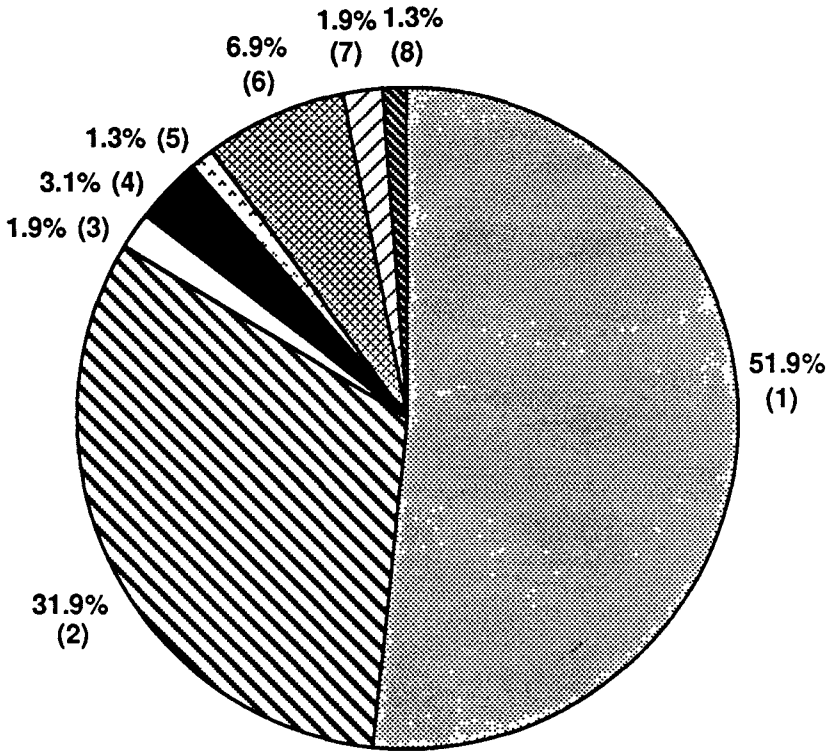
Chart 7

CHAPTER 4: OWNER/GENERATOR INFORMATION

- Chart 8: Owner/Operator of Site at Time of Preliminary Assessment
- Chart 9: Owner/Operator of Site at Time of Contamination
- Chart 10: Status of Site at Time of Preliminary Assessment
- Chart 11: Industry Responsible for Generating Waste: Major Categories
- Chart 12: Industry Responsible for Generating Waste: Manufacturing Category Details
- Chart 13: Waste Depositor
- Chart 14: Waste Generator

REGION 7

Owner/Operator of Site at Time of Preliminary Assessment



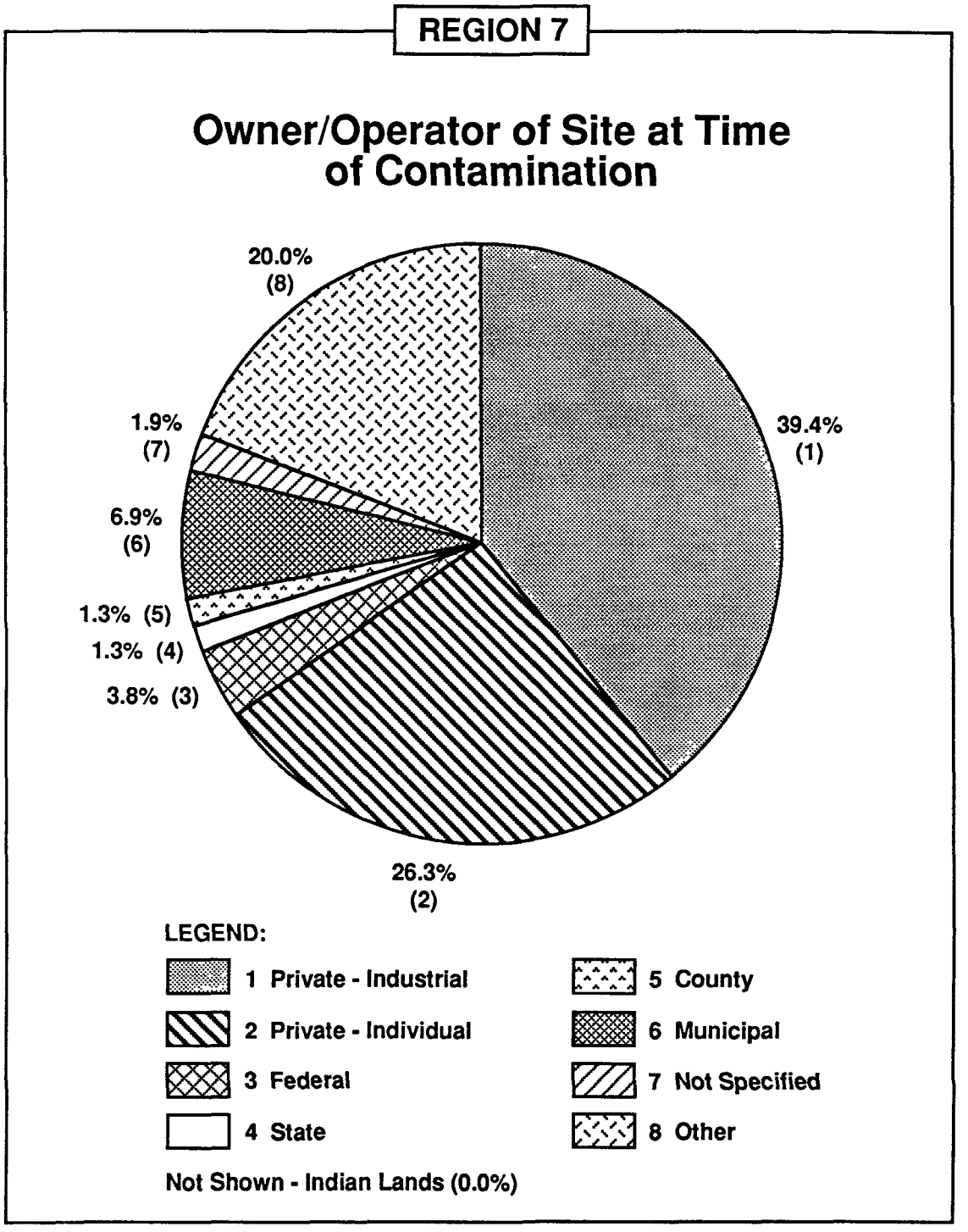
LEGEND:

- 1 Private - Industrial
- 2 Private - Individual
- 3 Federal
- 4 State
- 5 County
- 6 Municipal
- 7 Not Specified
- 8 Other

Not Shown - Indian Lands (0.0%)

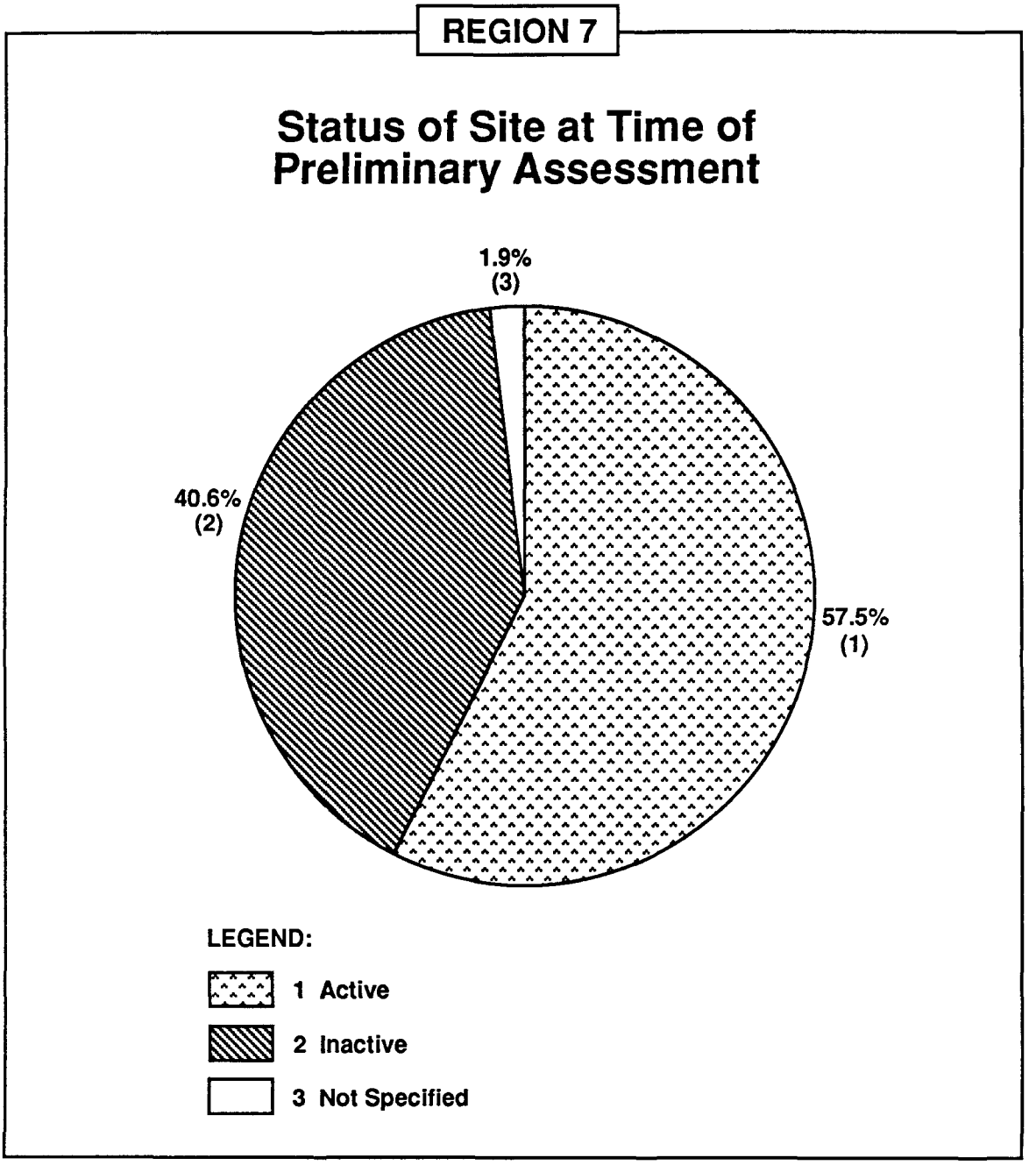
Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Site Description Section, Question 4, Current Ownership.
(2) Small businesses are included in the Private-Industrial category.
(3) Contaminated ground water plume sites are included in the "Other" category.

Chart 8



Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Site Description Section, Question 5, Ownership When Contaminated.
(2) Small businesses are included in the Private-Industrial category.
(3) Contaminated ground water plume sites are included in the "Other" category.
(4) Sites reported to have no contamination, approximately 20% of Region 7 sites in the CERCLIS sample, are included in the "Other" category.

Chart 9

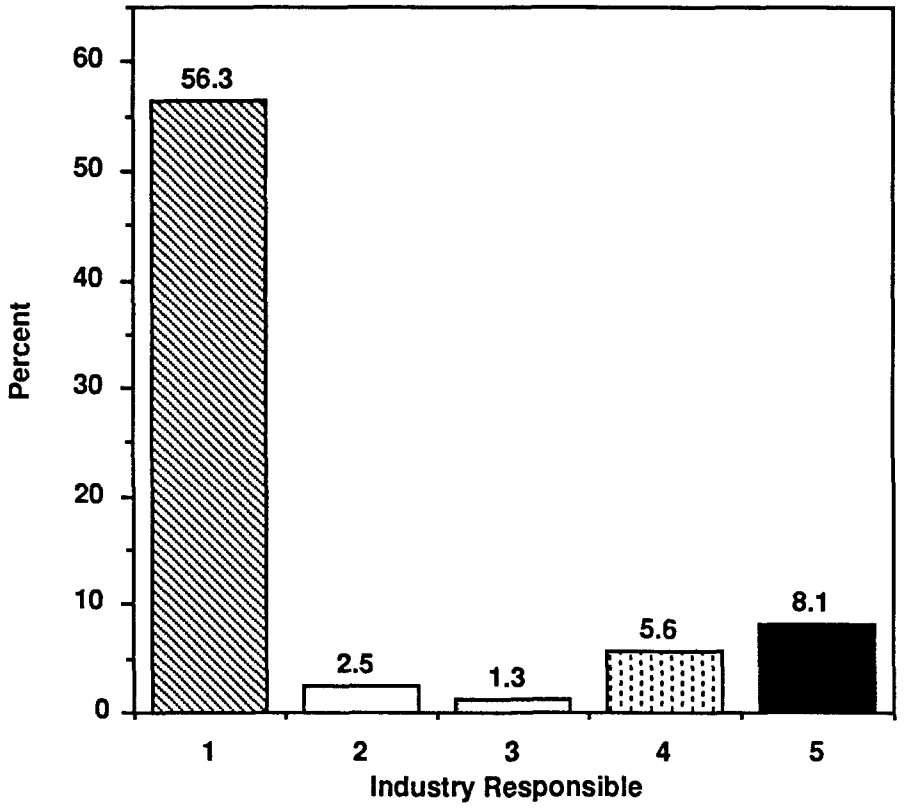


Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Site Description Section, Question 7, Site Status.
(2) Sites were considered "active" if waste treatment, storage, or disposal activities were taking place at the time of the PA.

Chart 10

REGION 7

Industry Responsible for Generating Waste: Major Categories



LEGEND:

- 1 Manufacturing (Details on Chart 12)
- 2 Mining
- 3 Oil and Gas Pipelines
- 4 Retail Sales
- 5 Not Specified

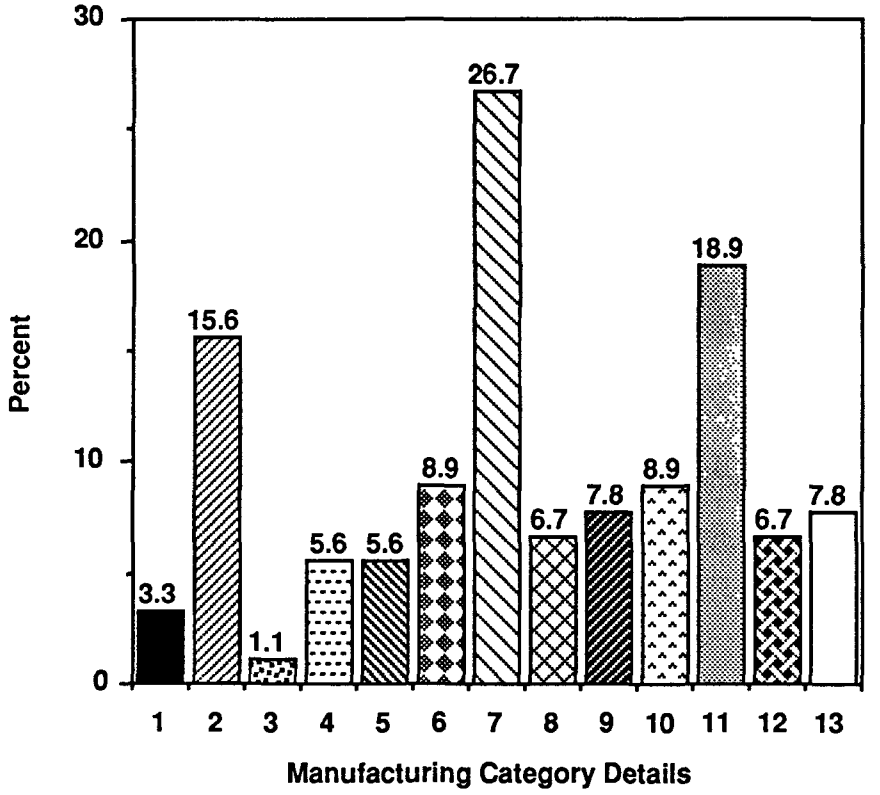
Not Shown - Coal Gasification (0.0%)

Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Site Description Section, Question 9, Industry Responsible for Generating Material.
(2) See Appendix A for a complete listing of "Other" responses.

Chart 11

REGION 7

Industry Responsible for Generating Waste: Manufacturing Category Details



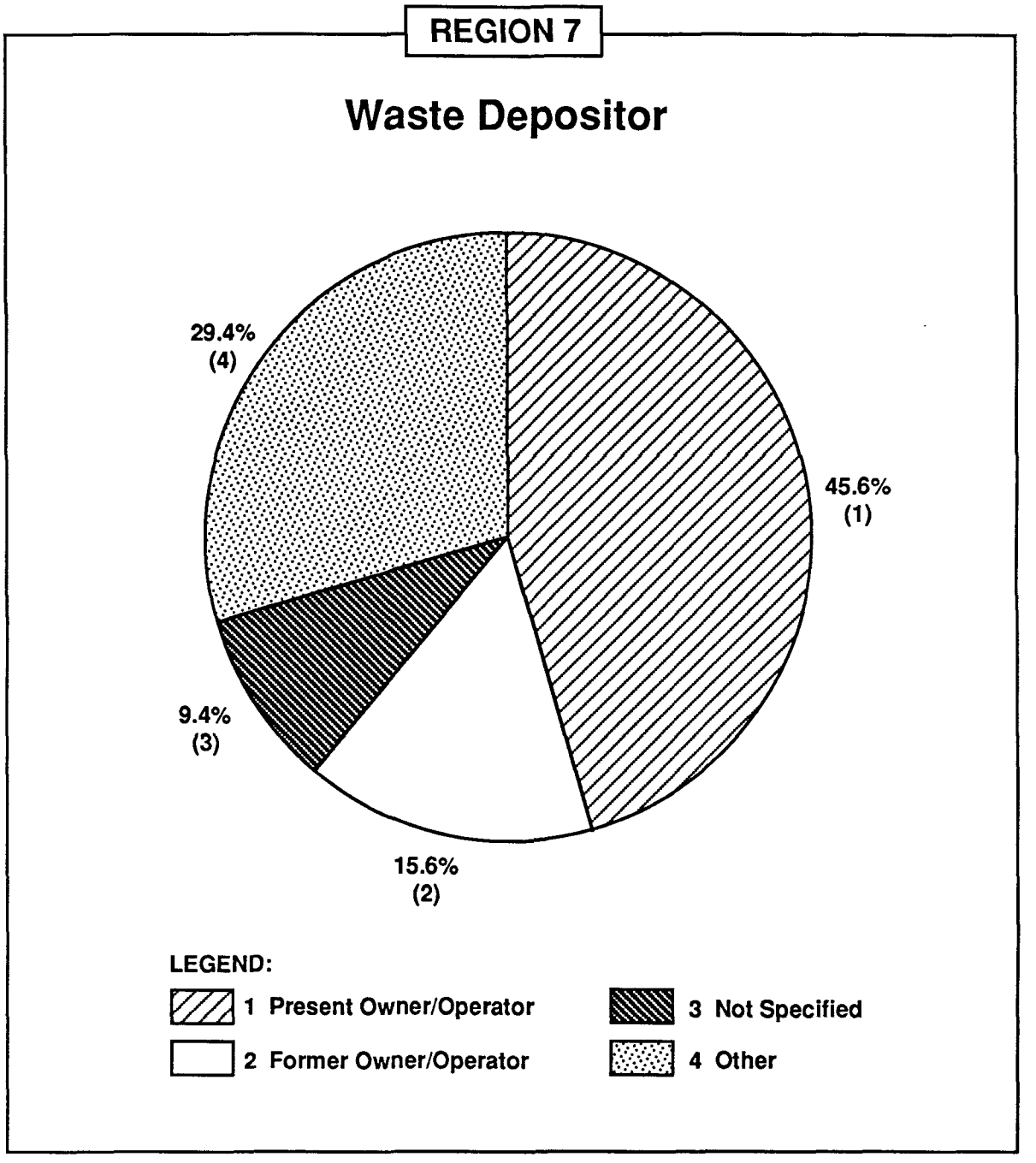
LEGEND:

- 1 Food and Kindred Products
- 2 Agriculture
- 3 Textile Mill Products
- 4 Lumber and Wood Products
- 5 Paper and Allied Products
- 6 Construction
- 7 Chemicals and Allied Products
- 8 Petroleum Refining and Related Industries
- 9 Rubber and Plastic Products
- 10 Primary Metal Products
- 11 Fabricated Metal Products
- 12 Electronic and Electrical Equipment
- 13 Electric Power Production and Distribution

Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Site Description Section, Question 9, Industry Responsible for Generating Material, Manufacturing Subcategory.

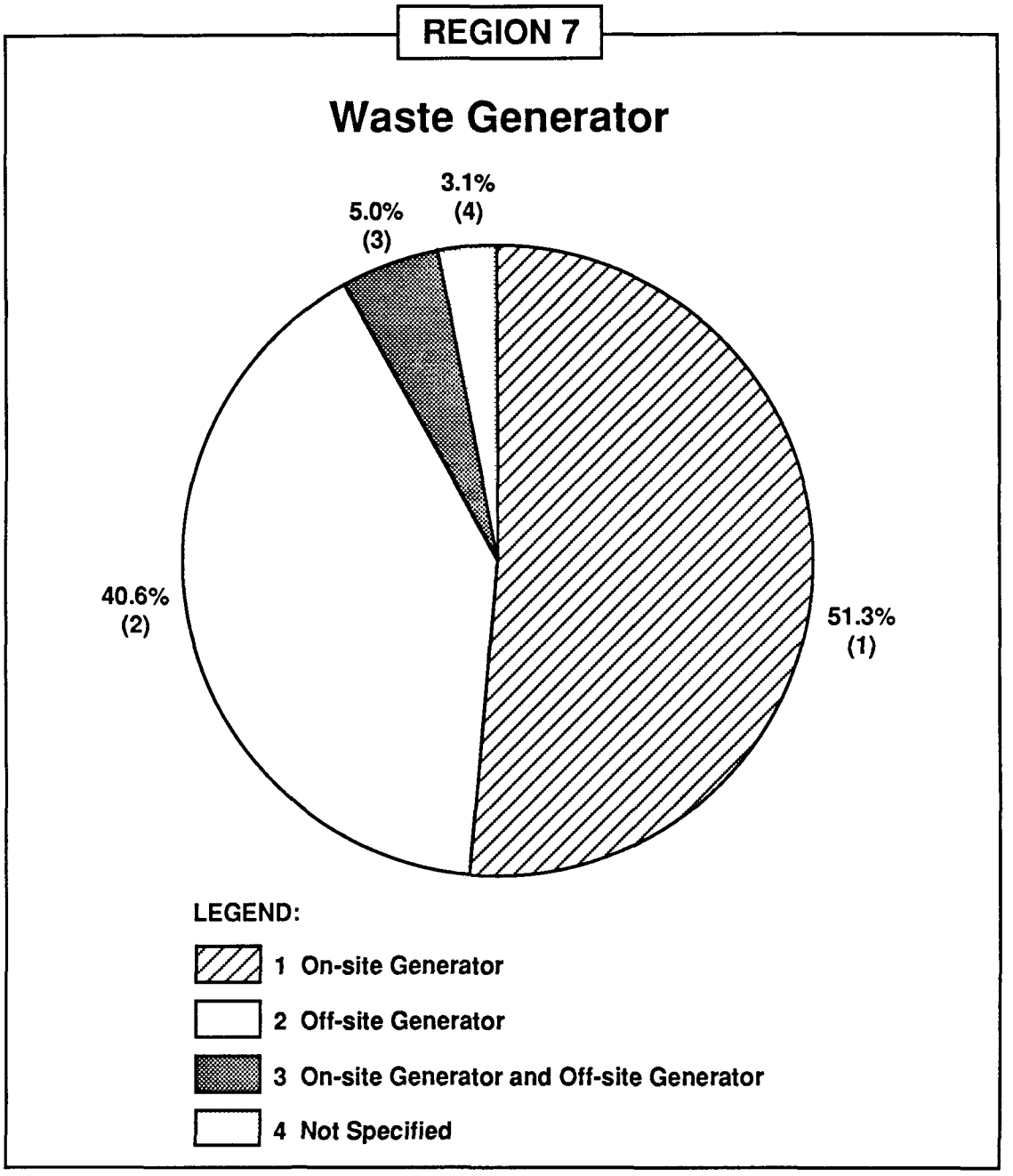
(2) Percentages are based on sites in the Manufacturing category only (56.3% of Region 7 sites in the CERCLIS sample).

Chart 12



Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Site Description Section, Question 12, Material Deposited By.
(2) "Present owner/operator" was defined as the owner/operator at the time of the PA.
(3) Sites reported to have no contamination, approximately 20% of Region 7 sites in the CERCLIS sample, are included in the "Other" category.

Chart 13



Note: This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Site Description Section, Question 14, Material Source.

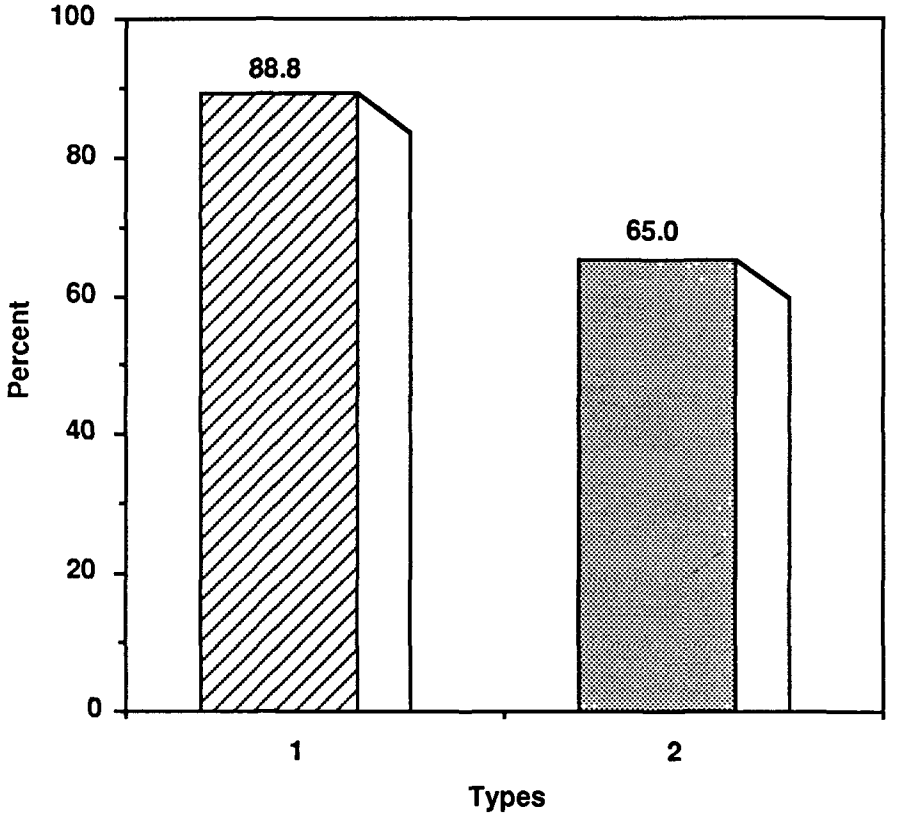
Chart 14

CHAPTER 5: REGULATORY AND RESPONSE HISTORY

- Chart 15: Types of PA-level Information Available and Used to Characterize CERCLIS Sites
- Chart 16: How Site Identified
- Chart 17: When Site Identified
- Chart 18: Regulatory Activities Prior to Preliminary Assessment
- Chart 19: Lead Agency for Preliminary Assessment
- Chart 20: Further Action Recommended

REGION 7

Types of PA-level Information Available and Used to Characterize CERCLIS Sites



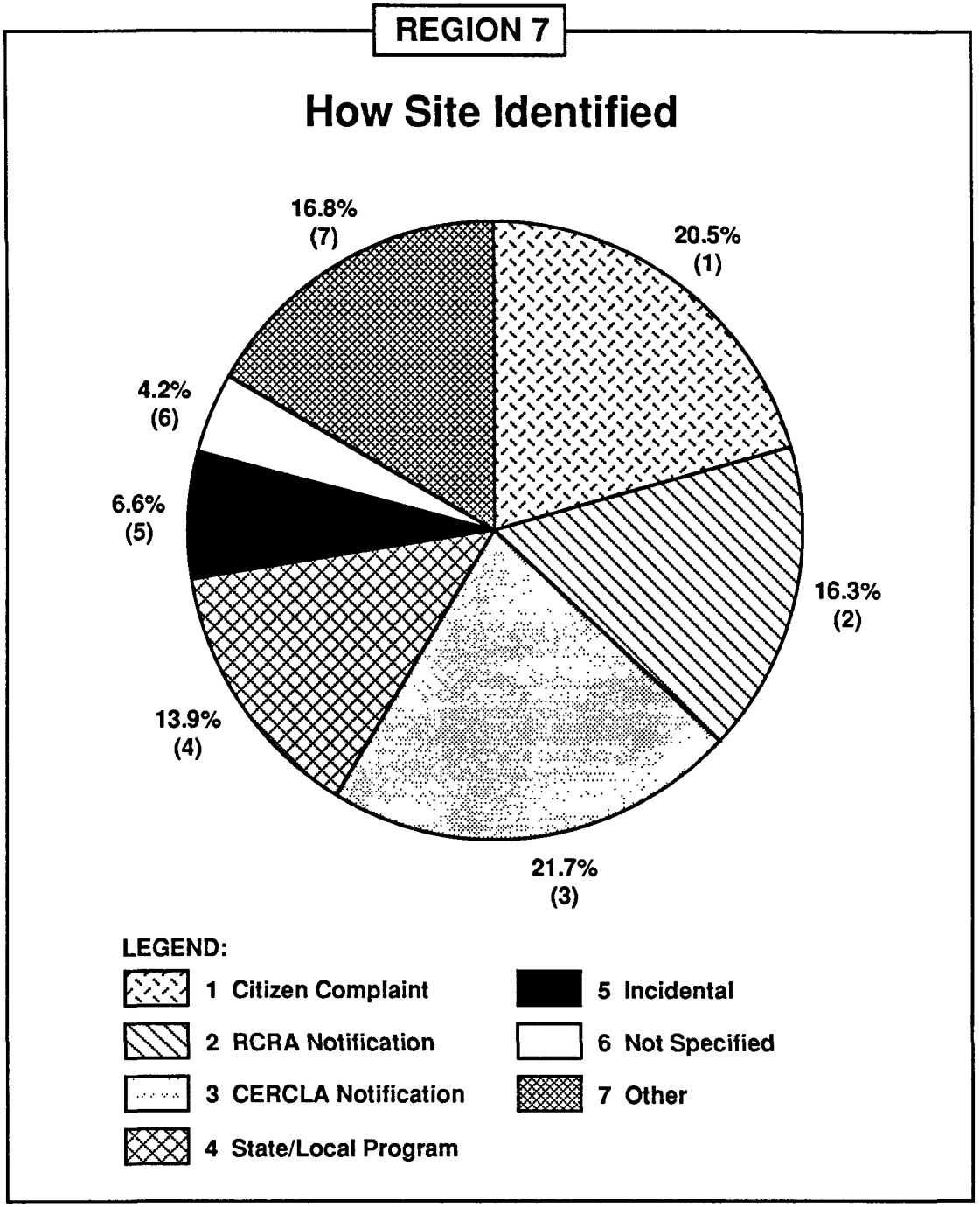
LEGEND:

1 PA Form

2 PA Report

Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Record Information Section, Question 2, Source of Information.
(2) See Appendix A for a complete listing of "Other" responses.

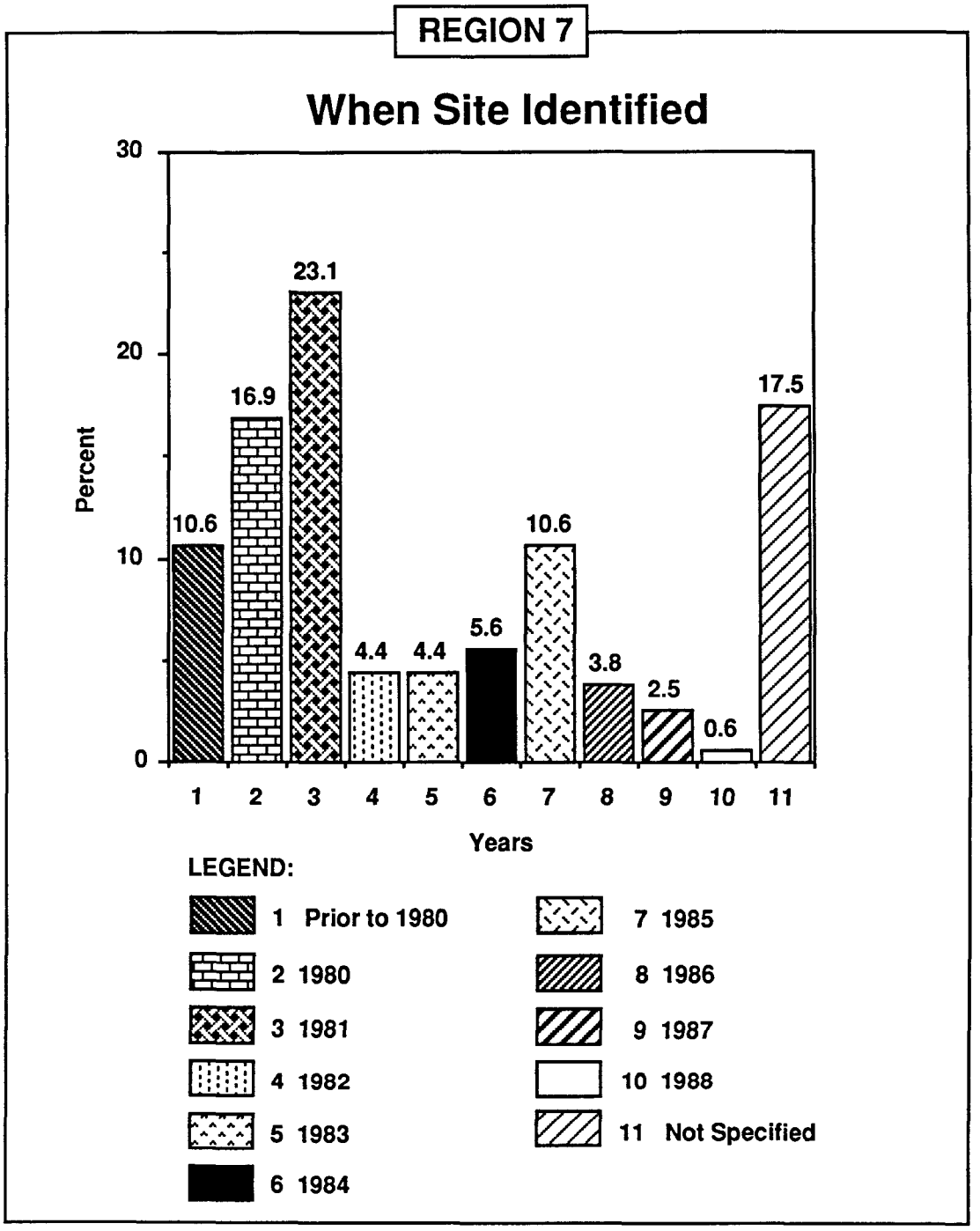
Chart 15



Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Site Description Section, Question 11, How Identified.

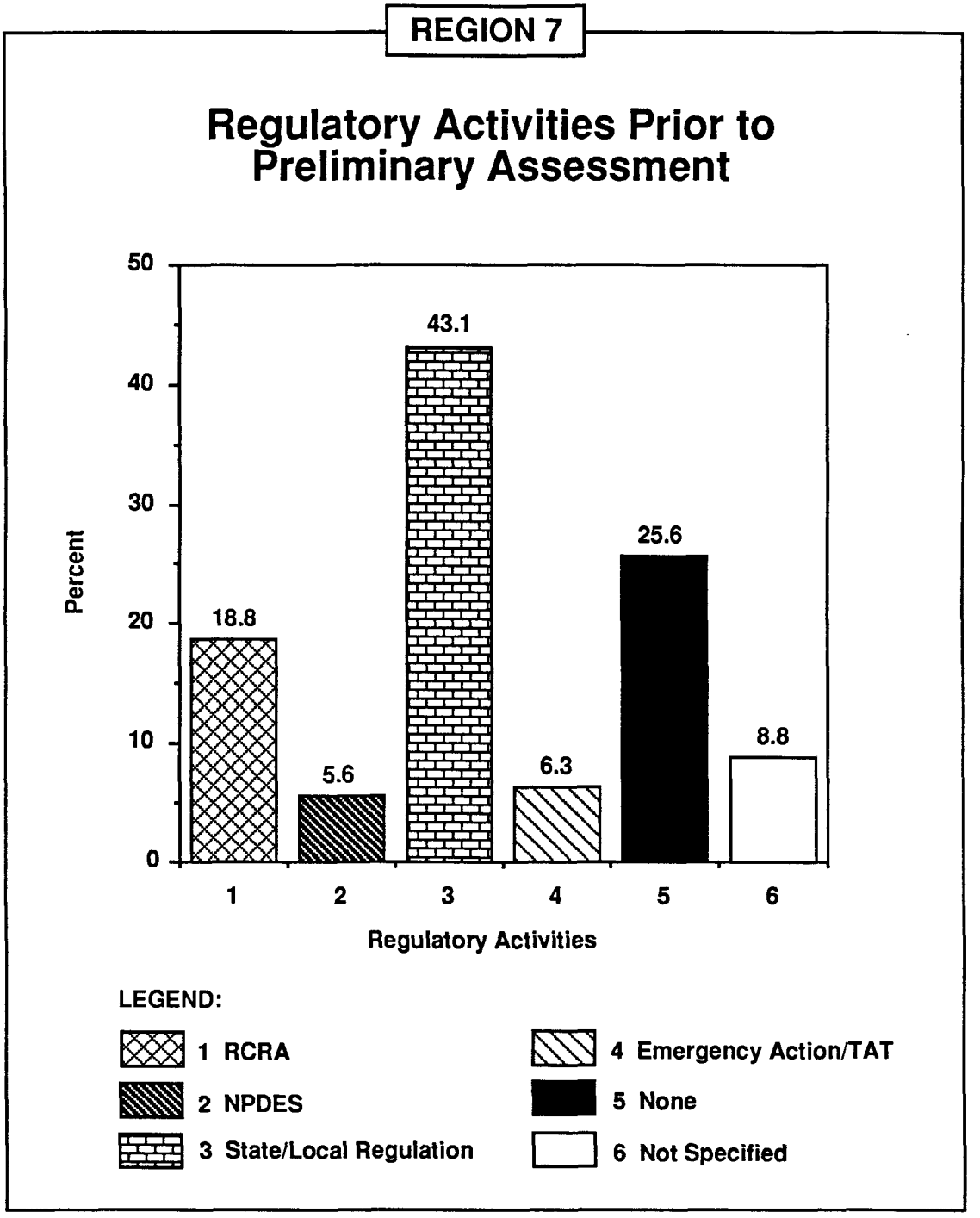
(2) Because there were multiple responses to this question, the percentages given in this chart are approximations developed by pro-rating the actual response data to 100%.

Chart 16



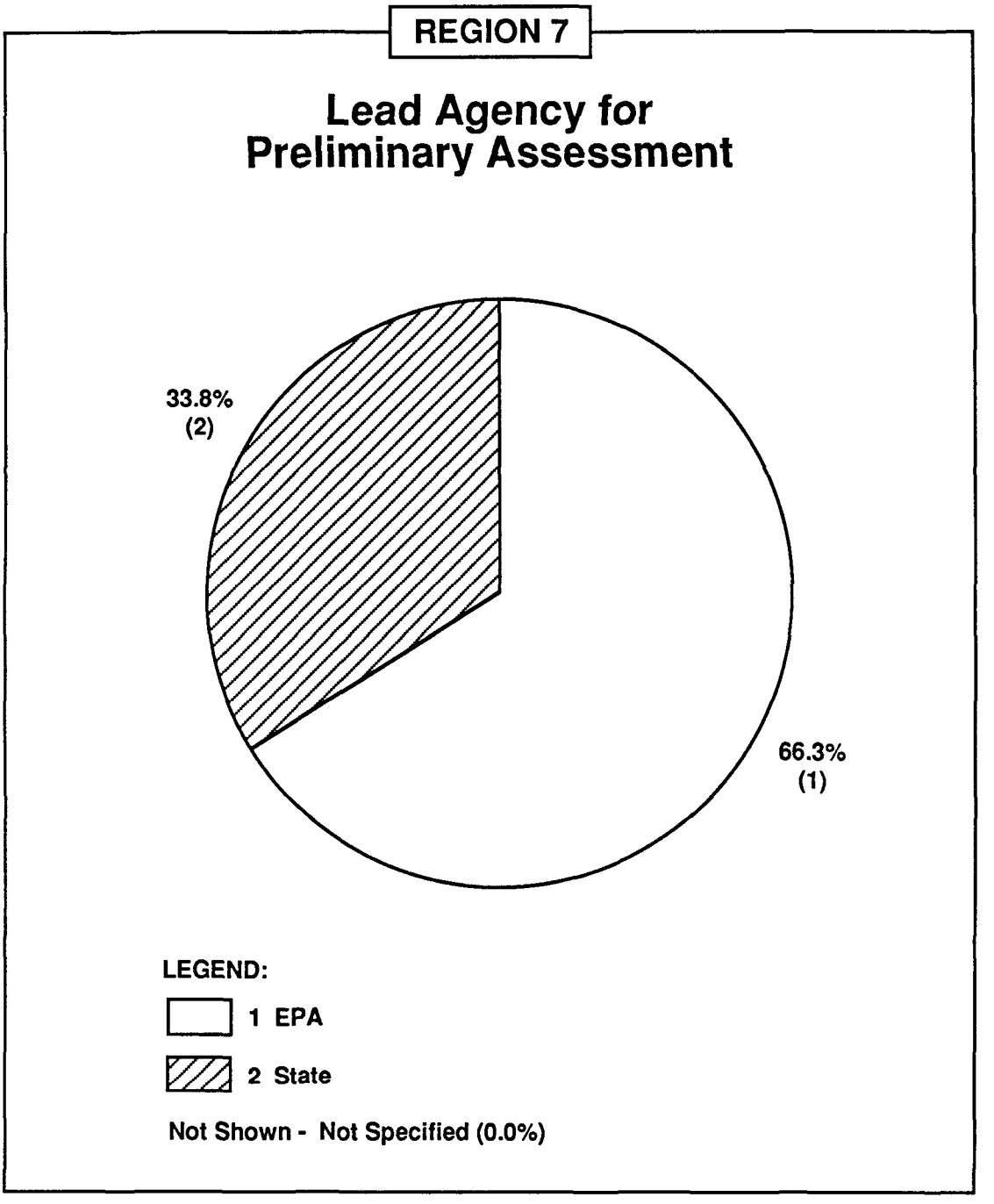
Note: This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Site Description Section, Question 13, Date Discovered.

Chart 17



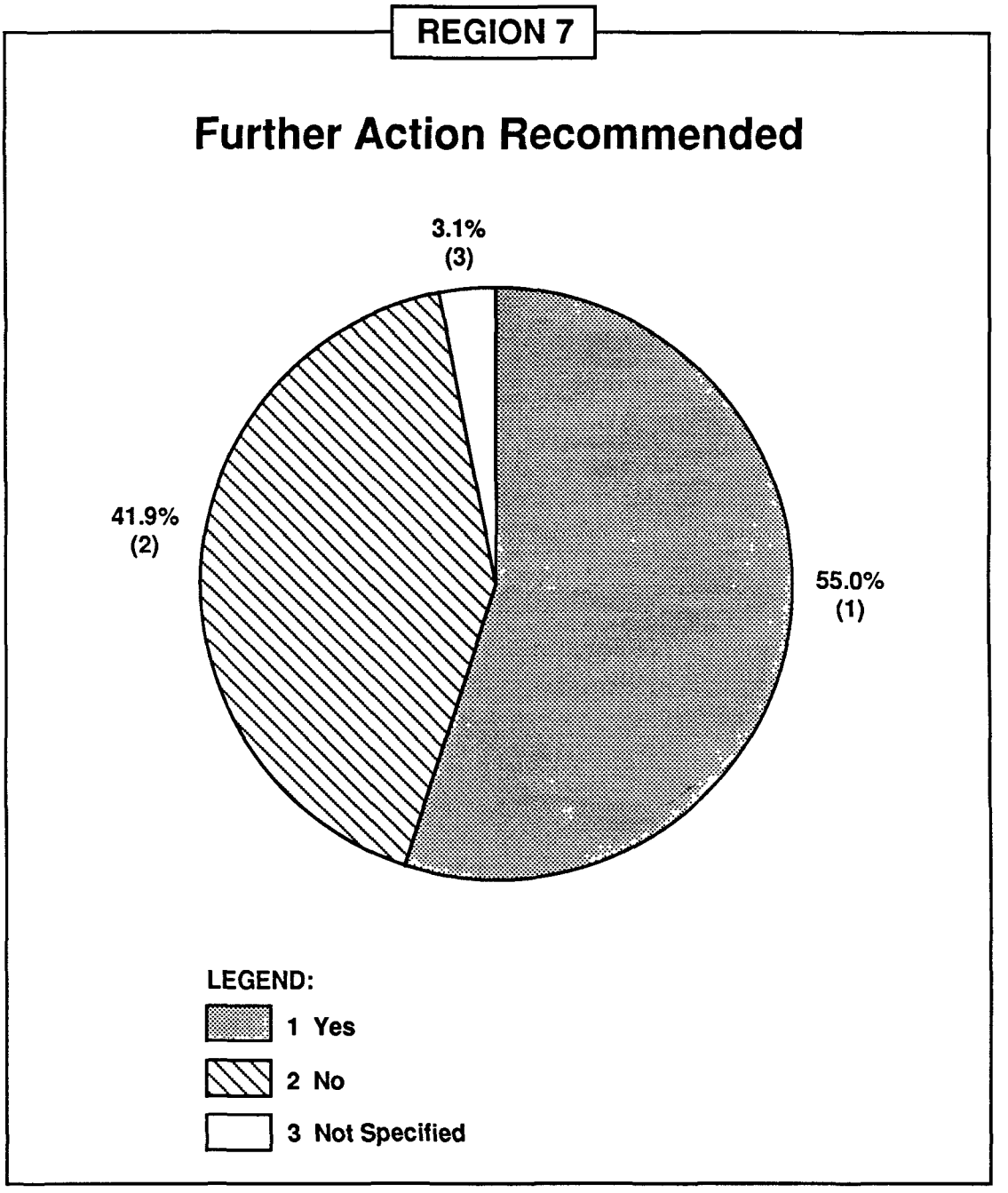
Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Regulatory and Response History Section, Question 1, Regulatory Activities Prior to Preliminary Assessment.
(2) See Appendix A for a complete listing of "Other" responses.

Chart 18



Note: This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Regulatory and Response History Section, Question 2, Lead Agency for Preliminary Assessment.

Chart 19

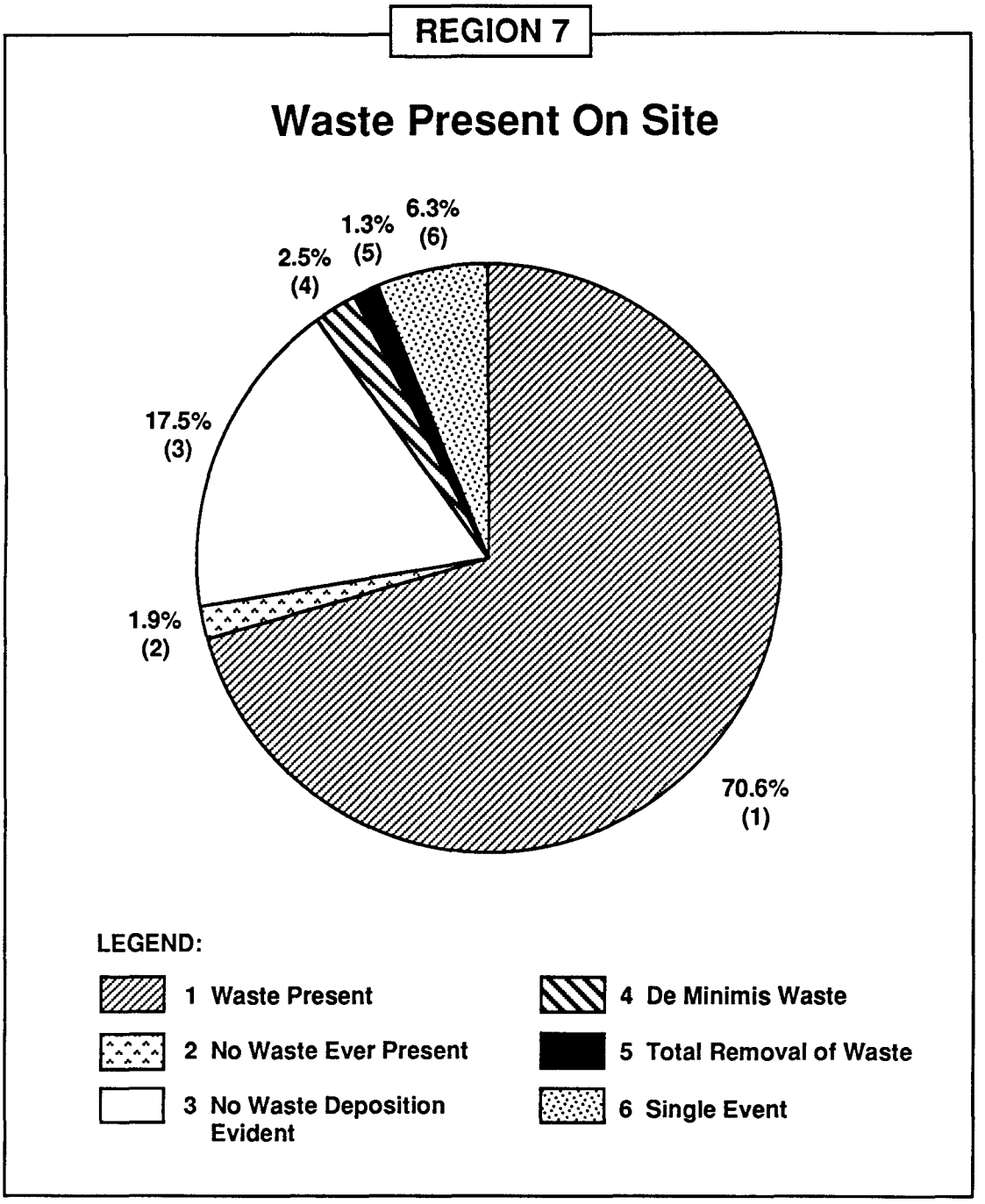


Note: This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Site Description Section, Question 16, Further Action Recommended.

Chart 20

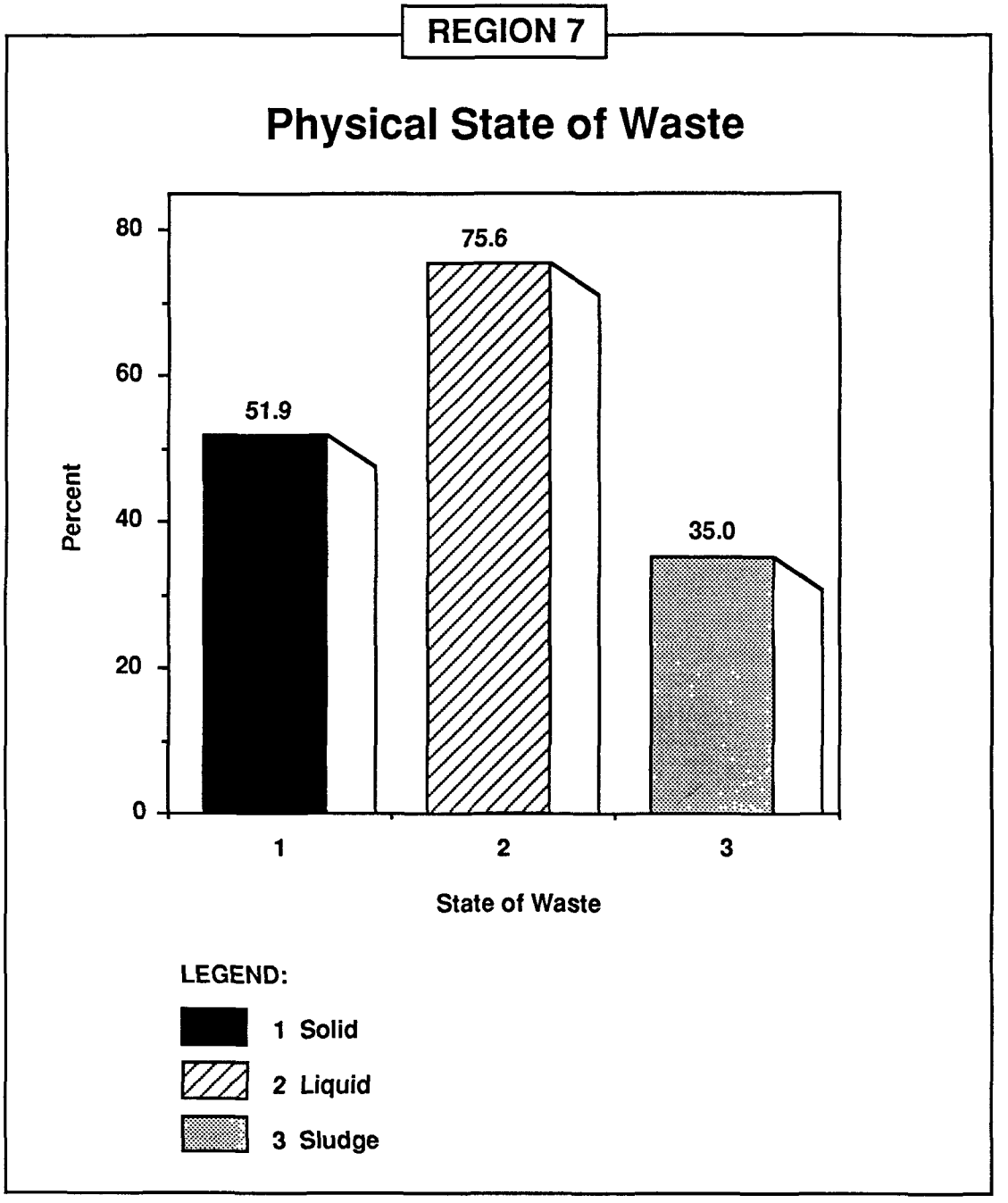
CHAPTER 6: WASTE DESCRIPTION

- Chart 21: Waste Present On Site
- Chart 22: Physical State of Waste
- Chart 23: Predominant Waste Types: Major Categories
- Chart 24: Predominant Waste Types: Hazardous Category Details
- Chart 25: Predominant Waste Types: Non-hazardous Category Details
- Chart 26: Waste Quantity



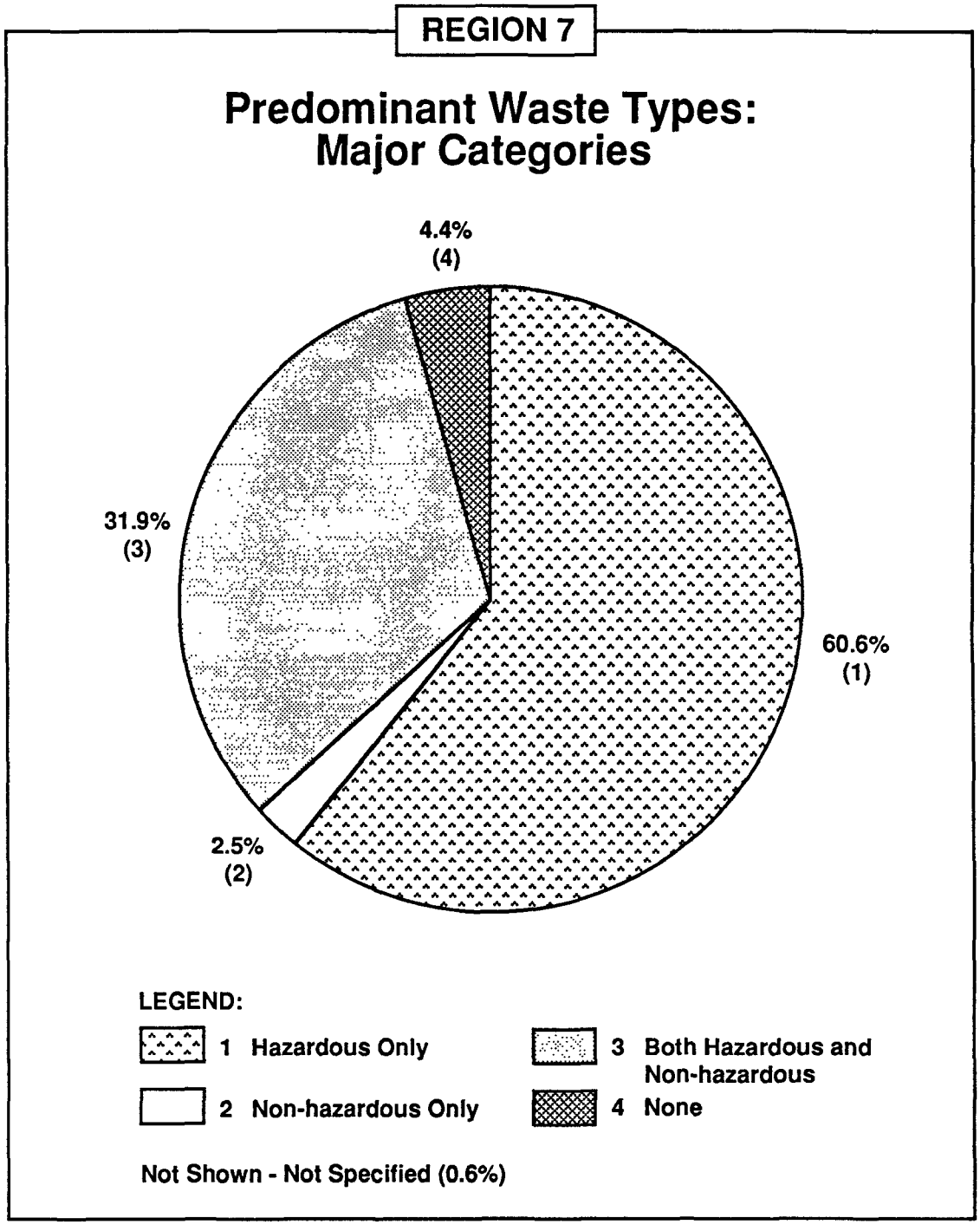
Note: This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Waste Description Section, Question 1, Descriptive Information.

Chart 21



Note: This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Waste Description Section.

Chart 22

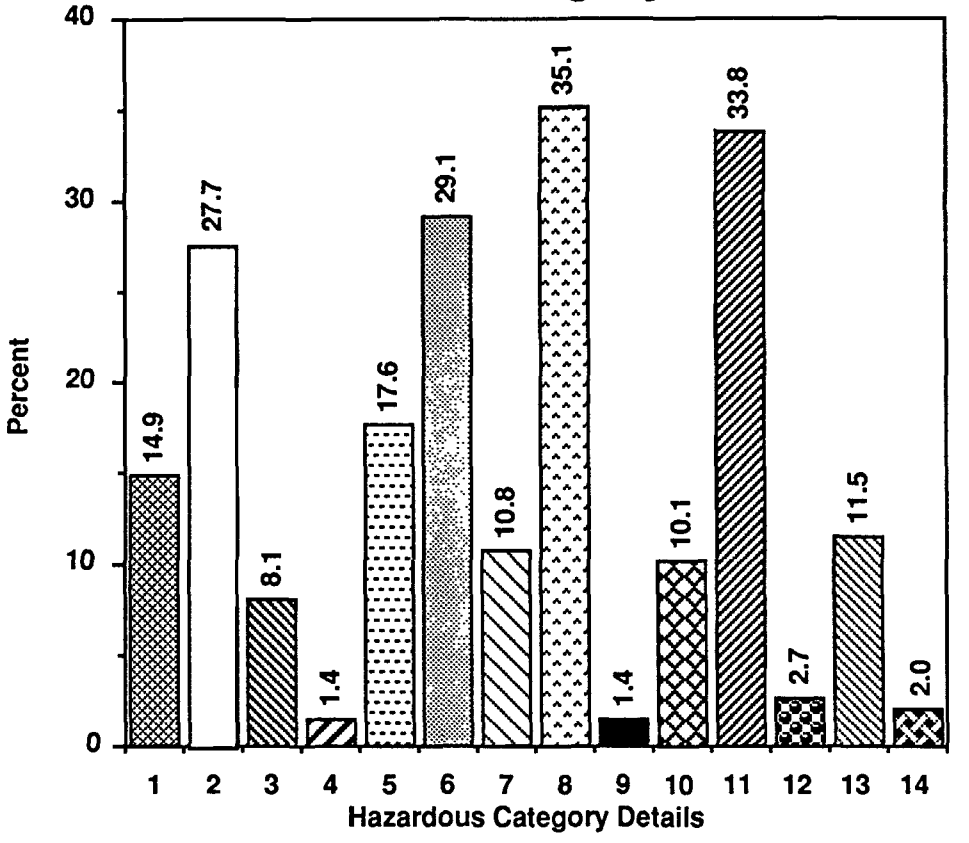


Note: This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Waste Description Section, Question 2, Waste Type.

Chart 23

REGION 7

Predominant Waste Types: Hazardous Category Details



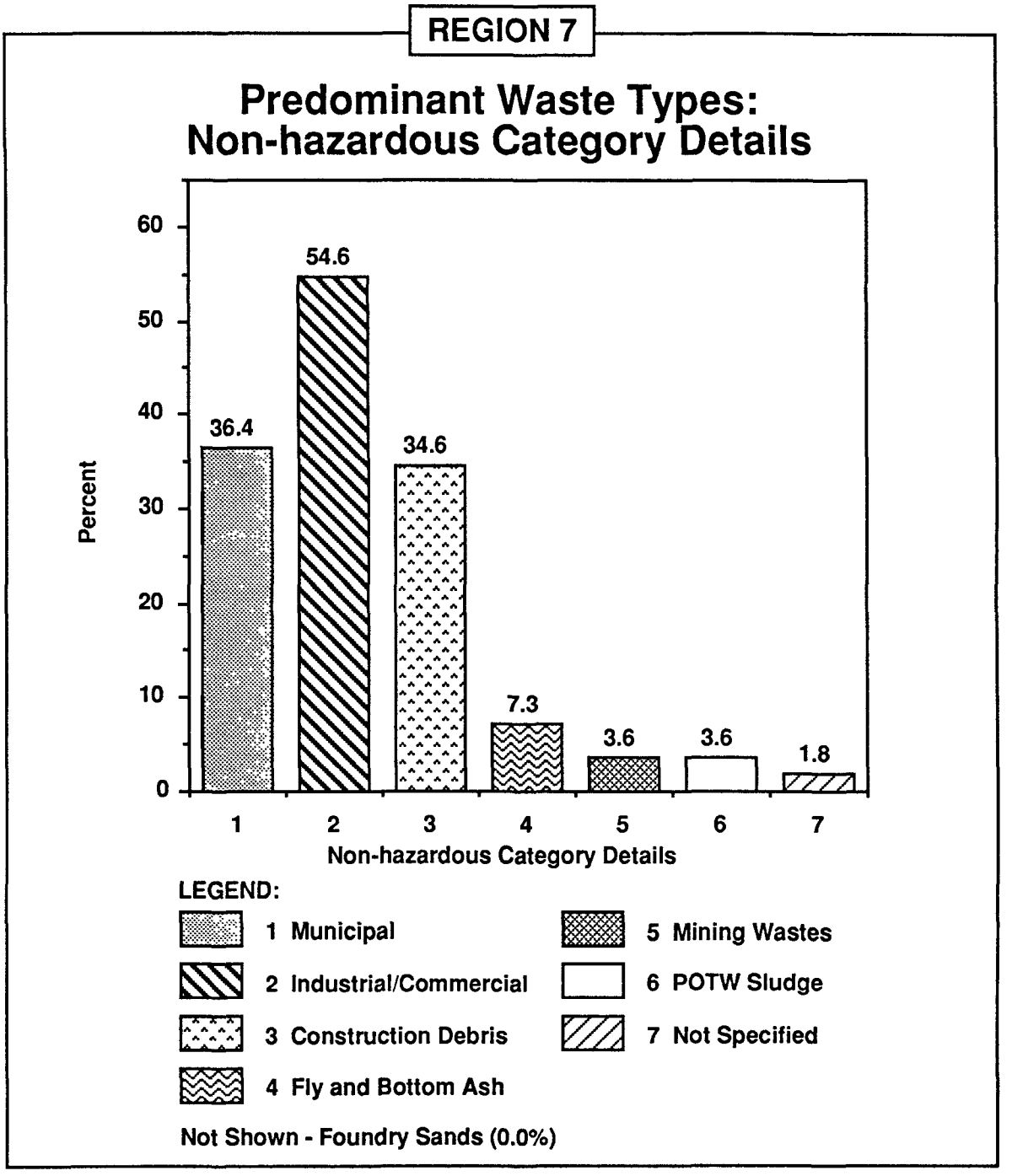
LEGEND:

- 1 Pesticides/Herbicides
- 2 Metals/Metal Sludge
- 3 Asbestos
- 4 Laboratory/Hospital Wastes
- 5 Paints/Pigments
- 6 Organic Chemicals/ Sludge
- 7 Inorganic Chemicals/ Sludge
- 8 Oily Wastes
- 9 Dioxins/PCP
- 10 PCBs
- 11 Solvents
- 12 Contaminated Soil
- 13 Acids/Bases
- 14 POTW Sludge

Not Shown - Smelting Wastes (0.0%), Creosote (0.0%), Explosives (0.7%), Radioactive Wastes (0.7%), Batteries (0.0%), Gas/Fuel (0.7%), Not Specified (0.7%)

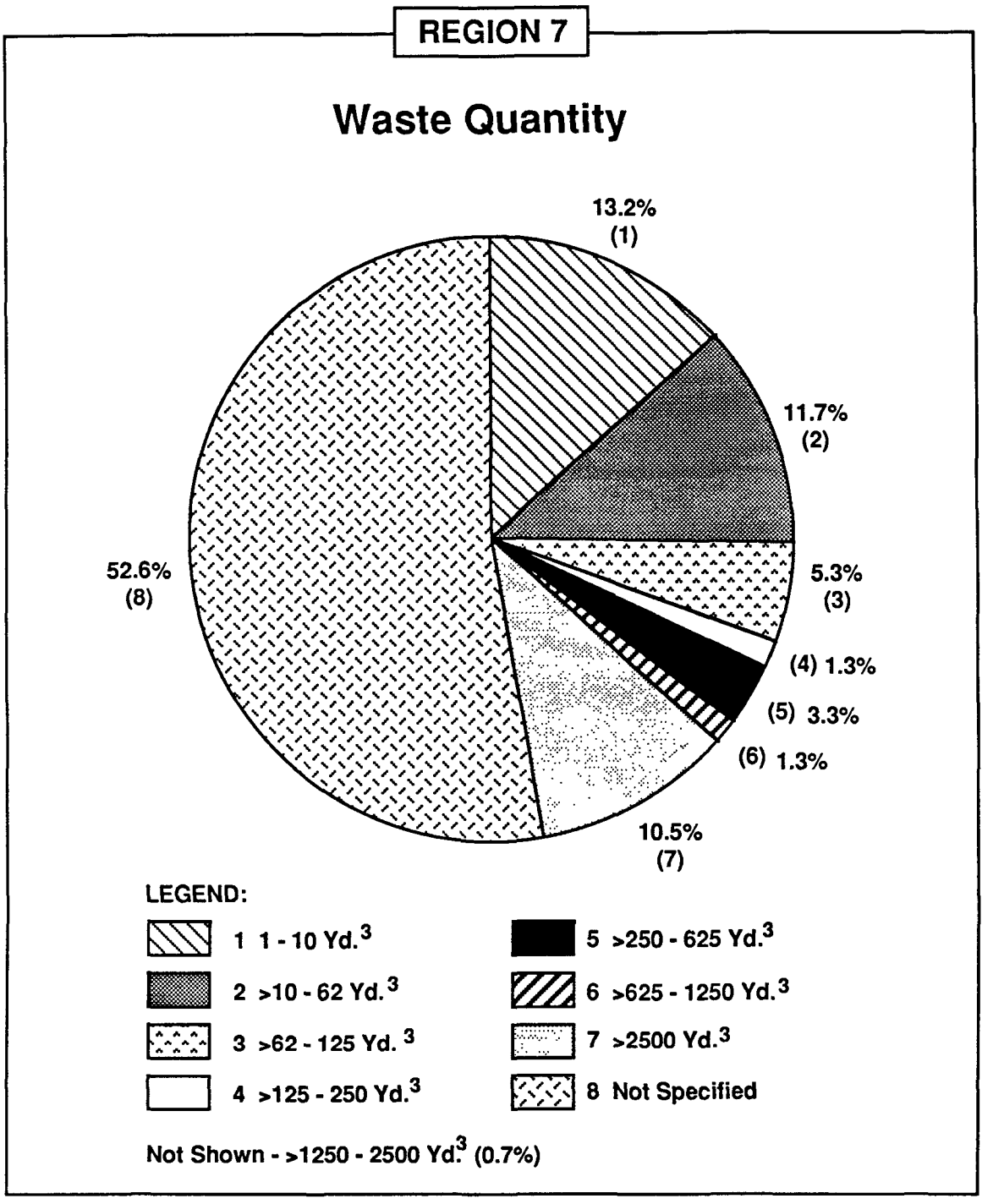
Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Waste Description Section, Question 2, Waste Type, Hazardous Subcategory.
(2) Percentages are based only on sites that reported hazardous waste (92.5% of Region 7 sites in the CERCLIS sample).
(3) See Appendix A for a complete listing of "Other" responses.

Chart 24



Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Waste Description Section, Question 2, Solids-Waste Type, Non-hazardous Subcategory.
(2) Percentages are based only on sites that reported non-hazardous waste (34.4% of Region 7 sites in the CERCLIS sample).
(3) See Appendix A for a complete listing of "Other" responses.

Chart 25



Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Waste Description Section, Question 2, Waste Type, Quantity/Units.
(2) Percentages are based on sites that reported hazardous and/or non-hazardous waste present on site (95.0% of Region 7 sites in the CERCLIS sample).
(3) All waste quantity data were converted to cubic yards using the following conversion factors: 1 cubic yard = 1 ton = 4 drums = 200 gallons.

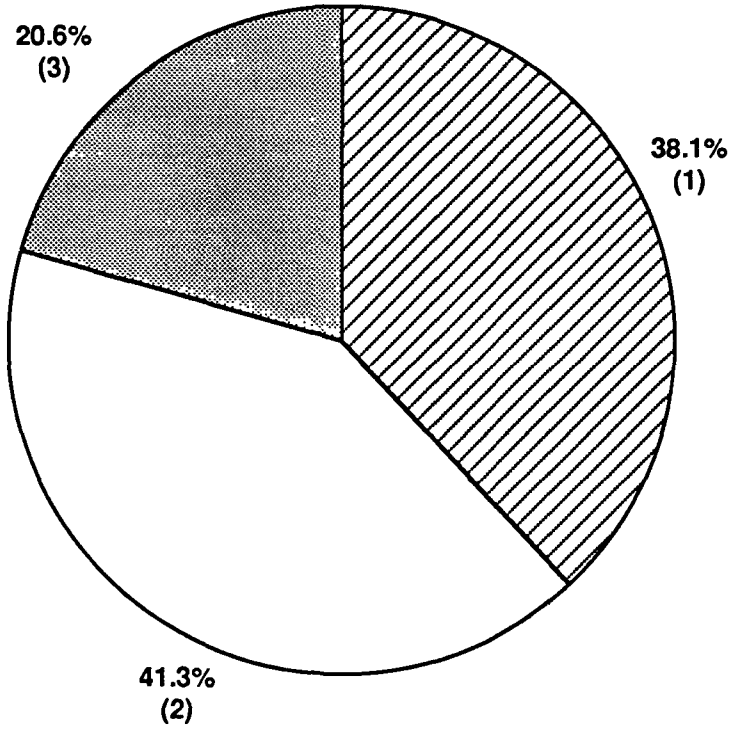
Chart 26

CHAPTER 7: ENVIRONMENTAL INFORMATION

- Chart 27: Environmental Damage Reported
- Chart 28: Type of Environmental Damage Reported
- Chart 29: Surface Water Adjacent to/Draining Site
- Chart 30: Presence of Sensitive Environment Within 3 Miles
- Chart 31: Type of Sensitive Environment Within 3 Miles

REGION 7

Environmental Damage Reported



LEGEND:

1 Yes (Details on Chart 28)

2 No

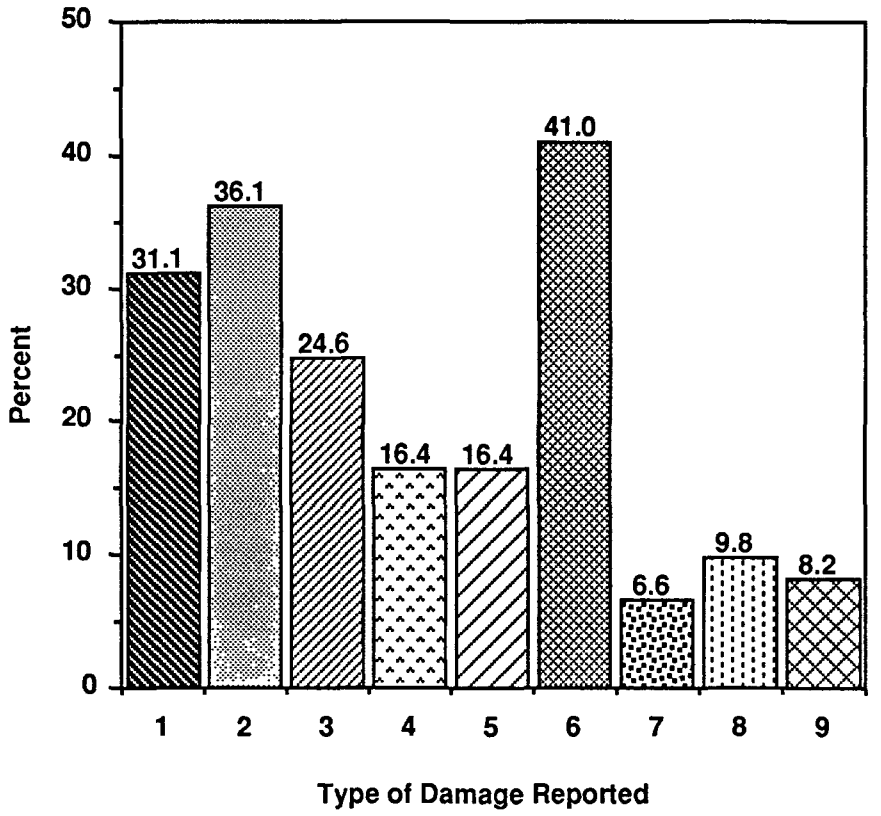
3 Not Specified

Note: This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Environmental/Demographic Information Section, Question 2, Actual Environmental Damage Reported, Potential Population Affected.

Chart 27

REGION 7

Type of Environmental Damage Reported

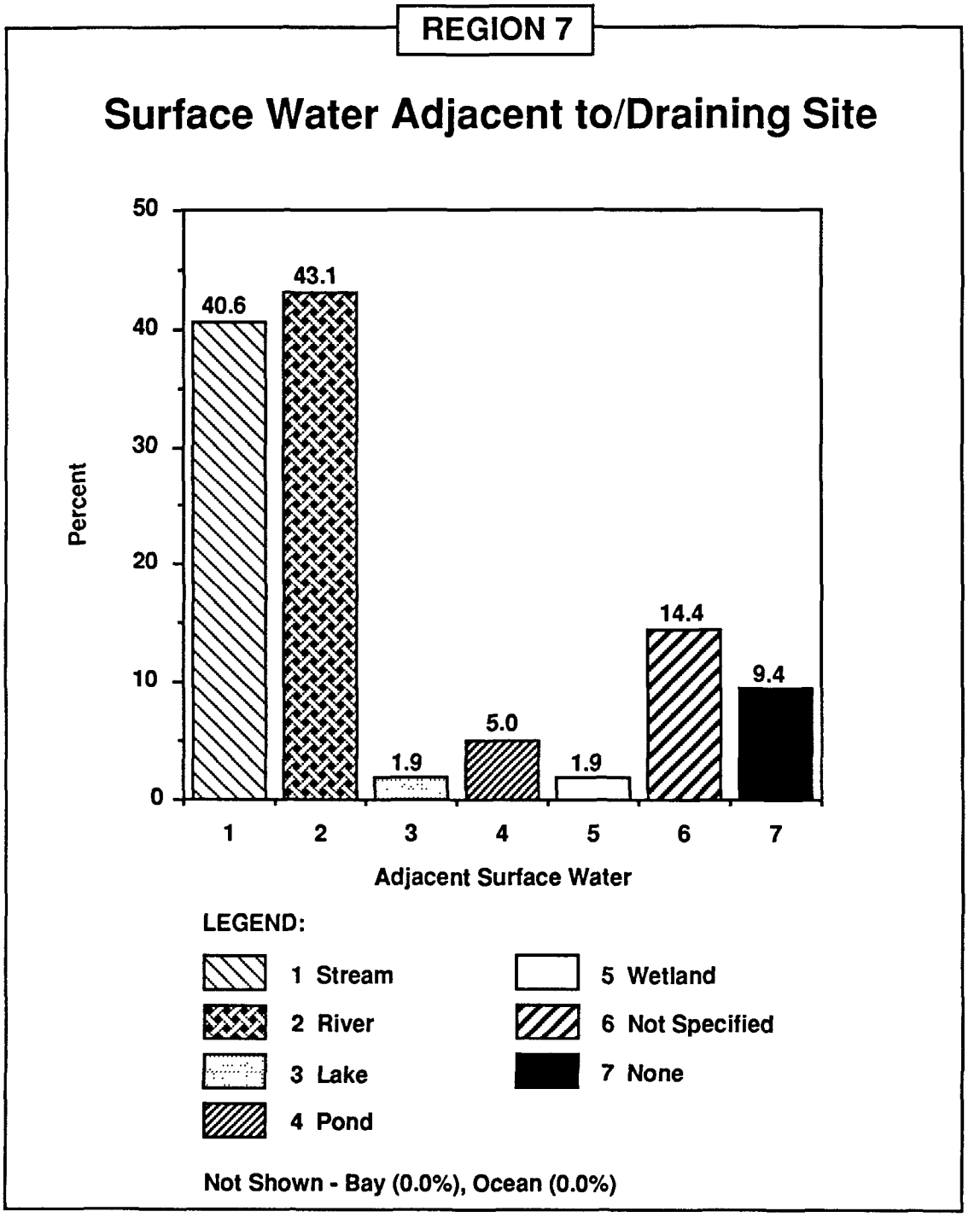


LEGEND:

- 1 Surface Water Impacts
- 2 Ground Water Impacts
- 3 Drinking Water Impacts
- 4 Air Impacts
- 5 Human Health Impacts
- 6 Soil Impacts
- 7 Flora Impacts
- 8 Fauna Impacts
- 9 Visual Impacts

Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Environmental/Demographic Information Section, Question 2, Actual Environmental Damage Reported, Potential Population Affected, "Yes" Subcategory.
(2) Percentages are based on sites that have reported environmental damage only (38.1% of Region 7 sites in the CERCLIS sample).

Chart 28



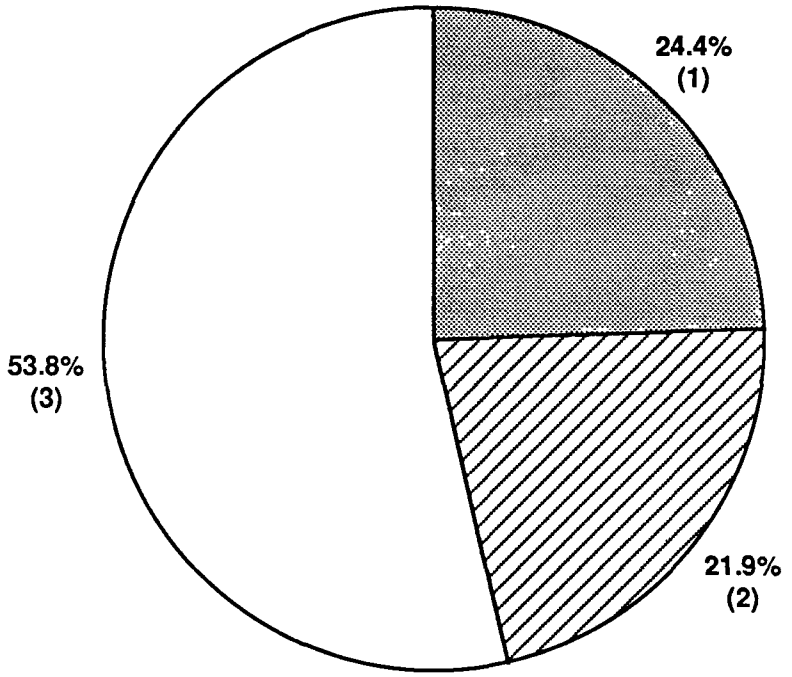
Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Environmental/Demographic Information Section, Question 3e, Surface Water Adjacent to/Draining Site.

(2) Includes only those surface water bodies that could potentially be affected by overland runoff from the site.

Chart 29

REGION 7

Presence of Sensitive Environment Within 3 Miles



LEGEND:

1 Yes (Details on Chart 31)

2 No

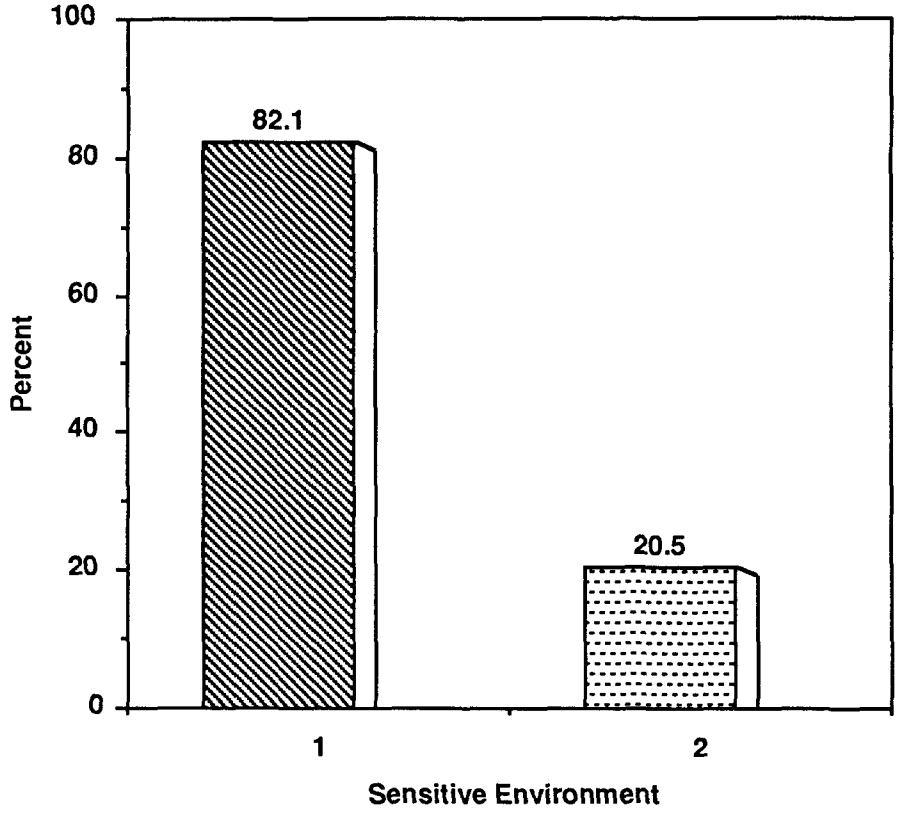
3 Not Specified

Note: This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Environmental/Demographic Information Section, Question 4, Ecological Information.

Chart 30

REGION 7

Type of Sensitive Environment Within 3 Miles



LEGEND:

1 100 Year Floodplain

2 Critical Habitat

Not Shown - Estuary (0.0%), Barrier Island/Coastal High Hazard Area (0.0%)

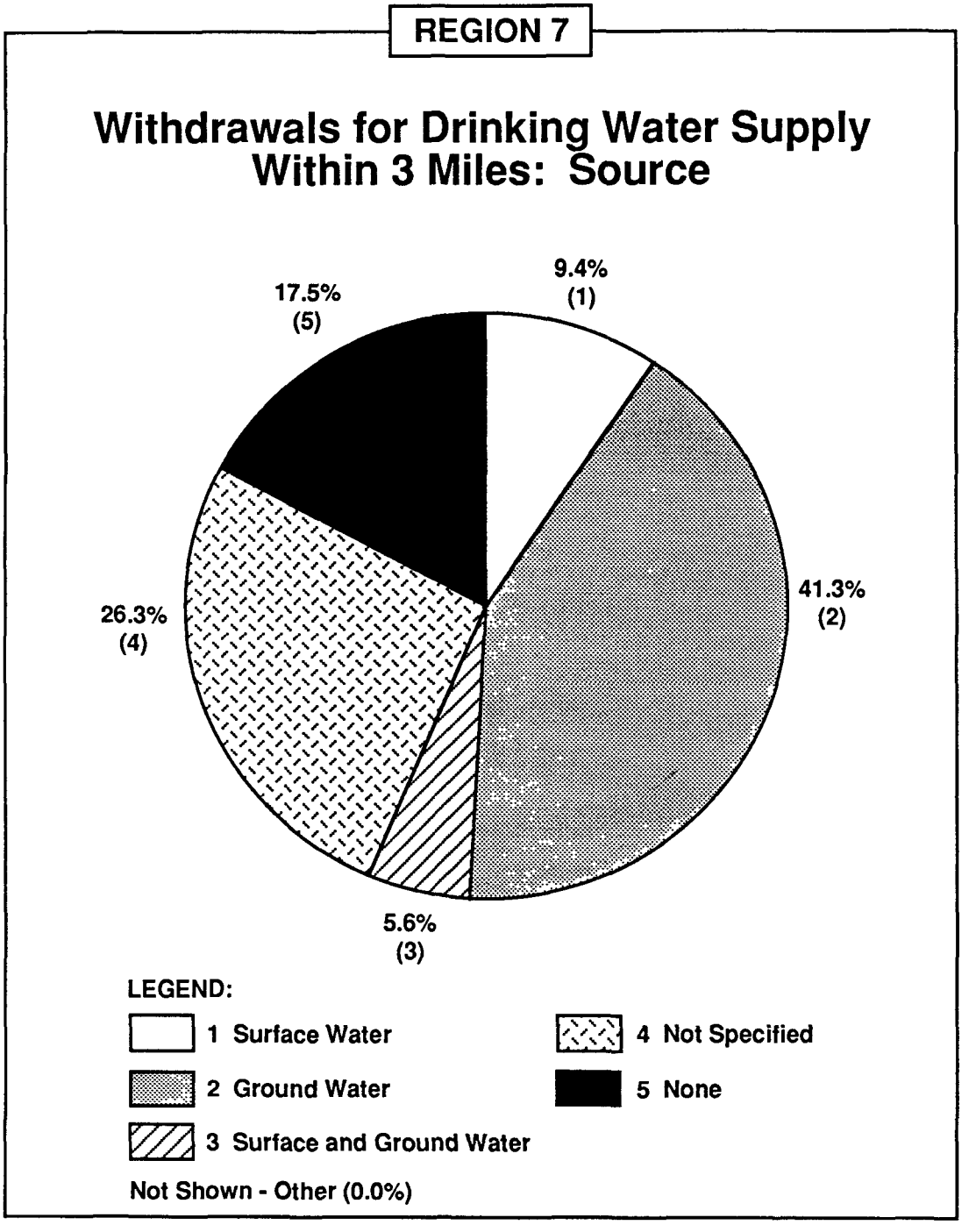
Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Environmental/Demographic Information Section, Question 4, Ecological Information, "Yes" Subcategory.

(2) Percentages are based on sites located within 3 miles of a sensitive environment only (24.4% of the Region 7 sites in the CERCLIS sample).

Chart 31

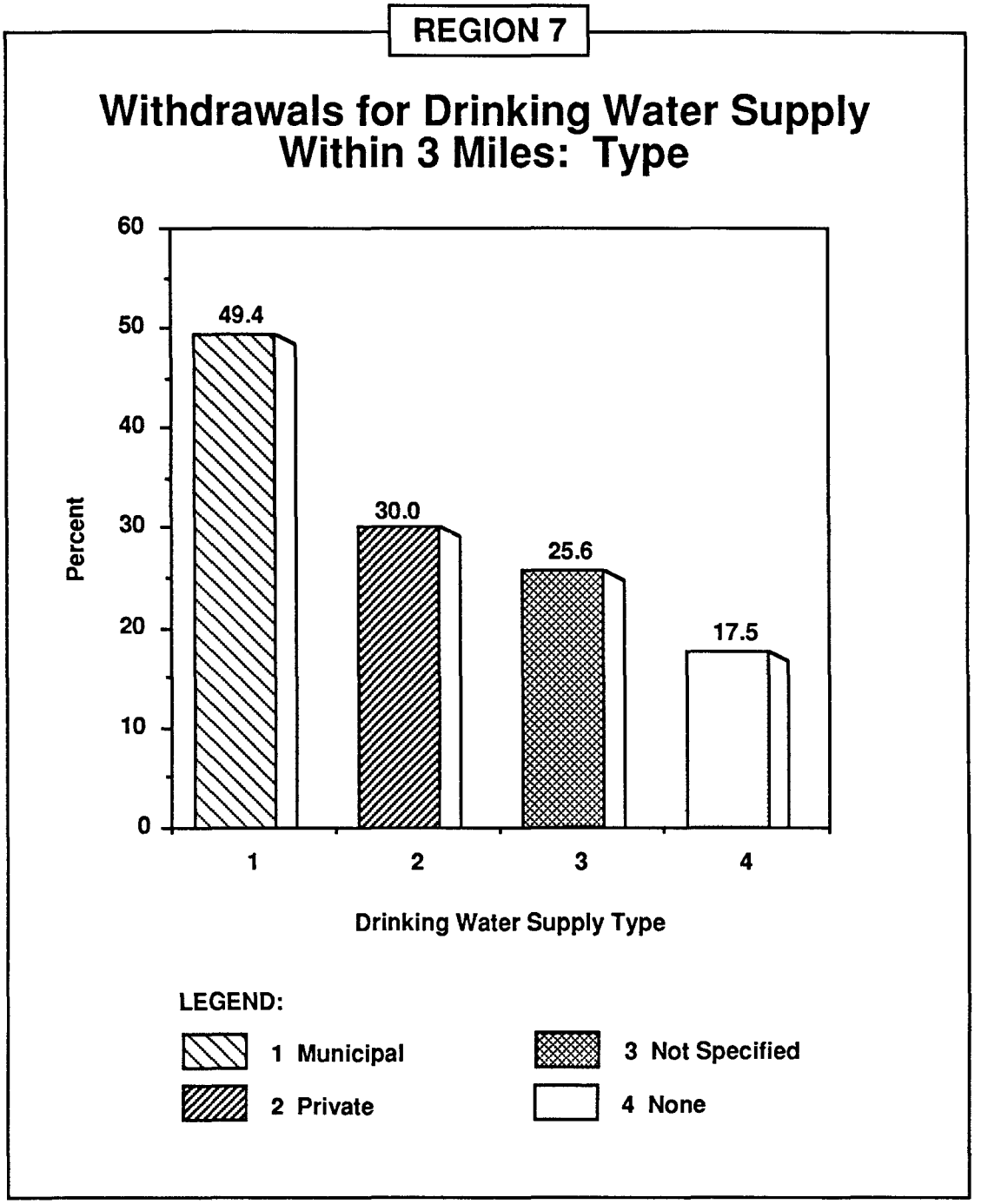
CHAPTER 8: WATER USE INFORMATION

- Chart 32: Withdrawals for Drinking Water Supply Within 3 Miles: Source
- Chart 33: Withdrawals for Drinking Water Supply Within 3 Miles: Type
- Chart 34: Local Ground Water Uses Other Than Drinking Water
- Chart 35: Operable Wells Within 1 Mile
- Chart 36: Operable Wells Within 3 Miles
- Chart 37: Local Surface Water Uses Other Than Drinking Water



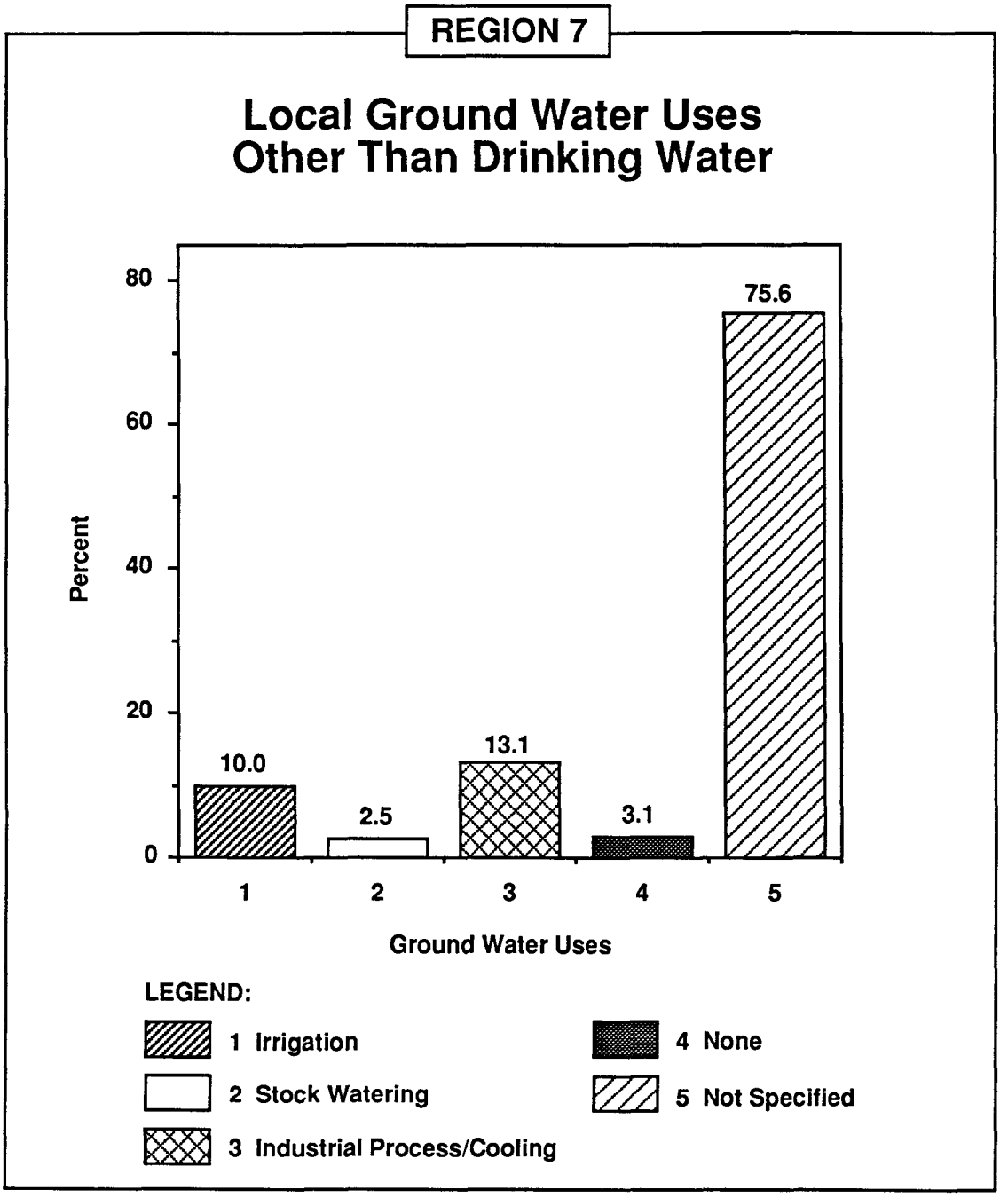
Note: This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Environmental/Demographic Information Section, Question 3a, Local Drinking Water Supply Source.

Chart 32



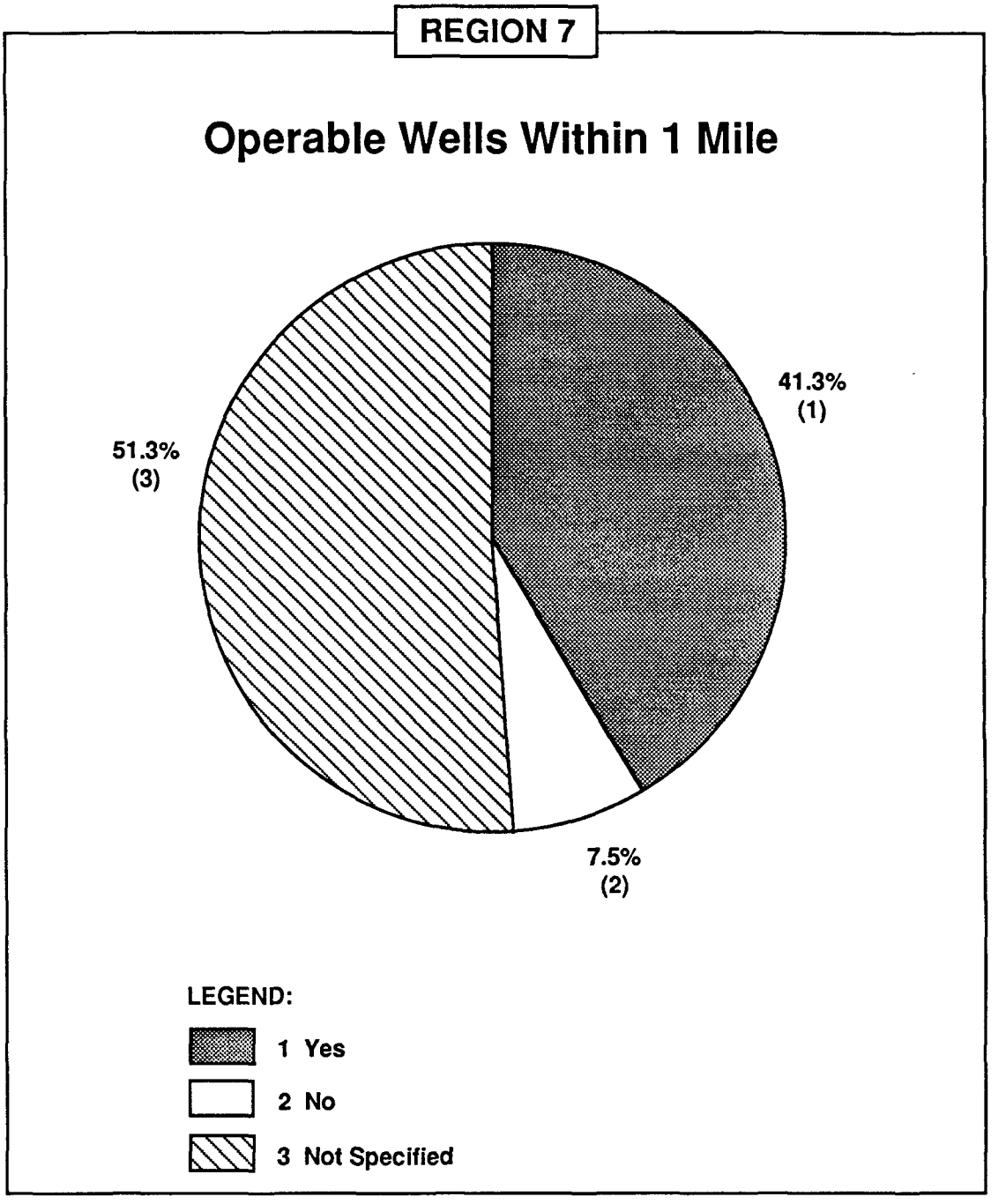
Note: This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Environmental/Demographic Information Section, Question 3c, Drinking Water Supply System Type.

Chart 33



Note: This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Environmental/Demographic Information Section, Question 3d, Other Local Ground Water Uses.

Chart 34

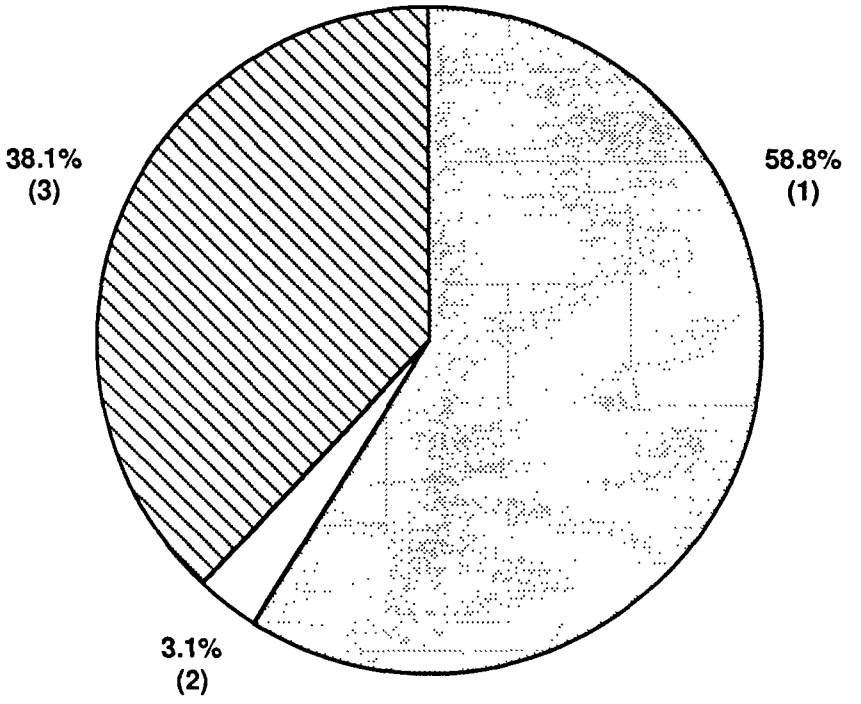


Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Environmental/Demographic Information Section, Question 3d, Wells Within 1 Mile.
(2) Includes all operable water wells, except monitoring wells.

Chart 35

REGION 7

Operable Wells Within 3 Miles



LEGEND:

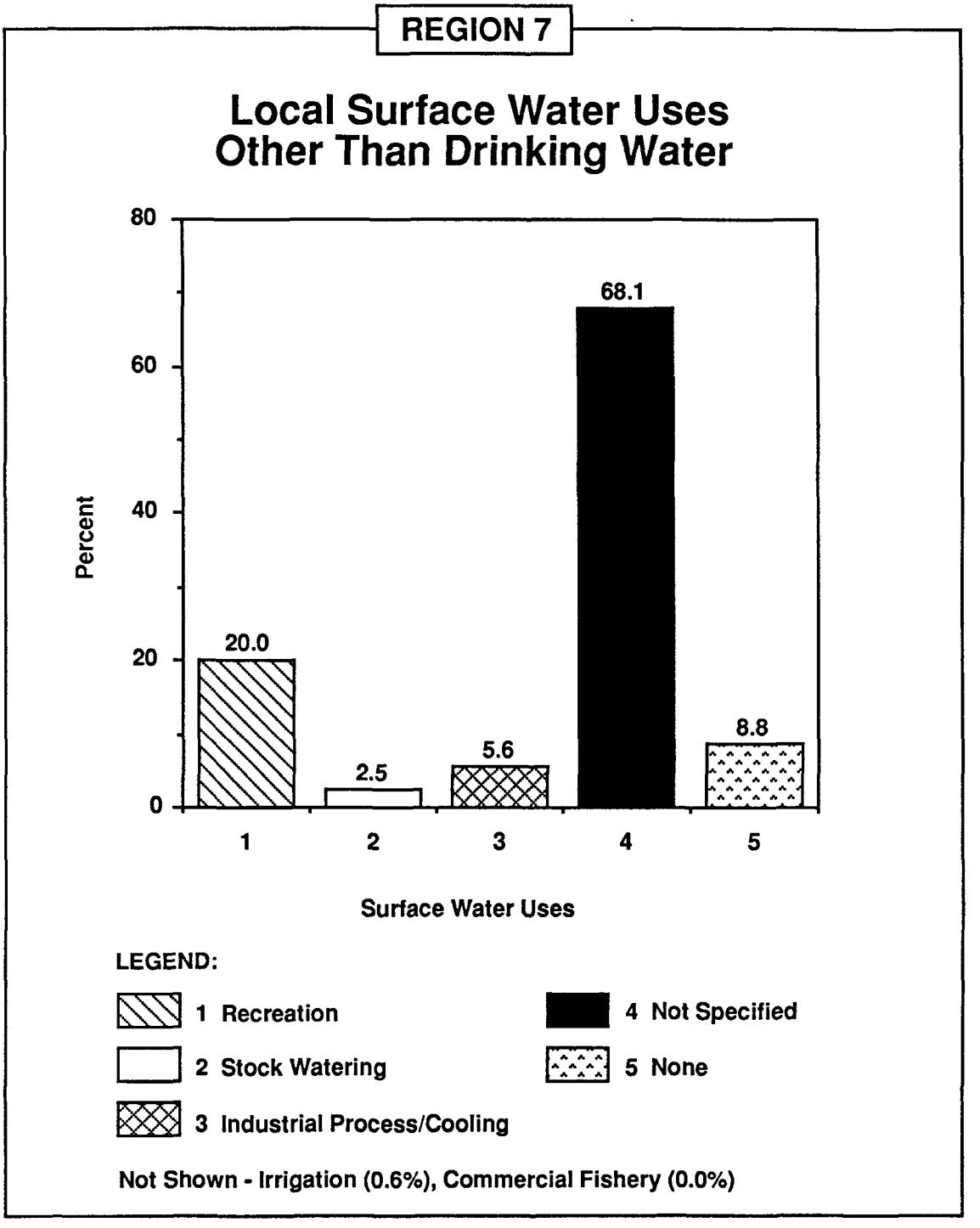
1 Yes

2 No

3 Not Specified

Notes: (1) This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Environmental/Demographic Information Section, Question 3d, Wells Within 3 Miles.
(2) Includes all operable water wells, except monitoring wells.

Chart 36



Note: This figure depicts information collected on the CERCLIS Statistics Data Collection Form in the Environmental/Demographic Information Section, Question 3e, Other Local Surface Water Uses.

Chart 37

APPENDIX A: RESPONSES FROM "OTHER" CATEGORY

RESPONSES FROM "OTHER" CATEGORY

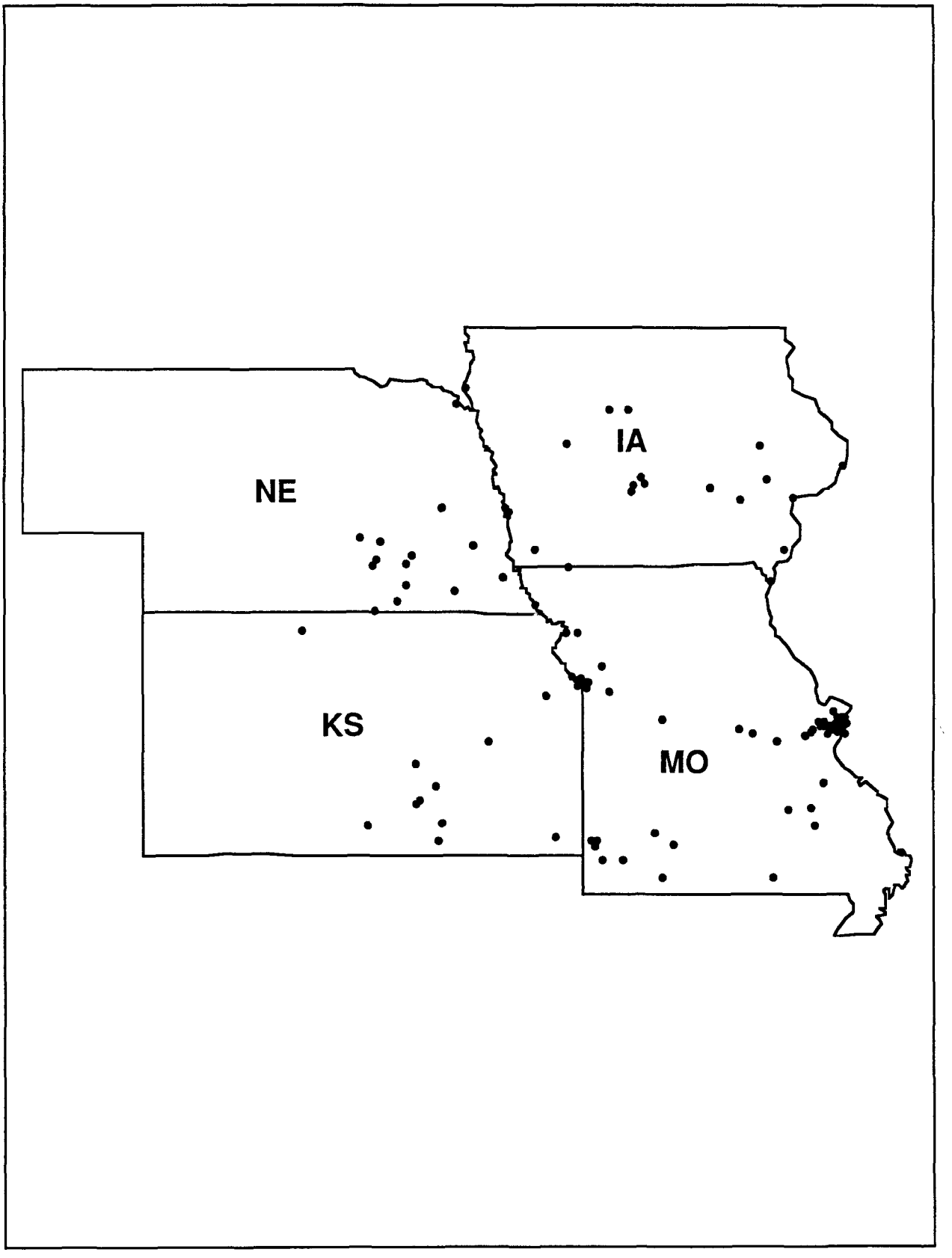
Chart	Title	Response	Number of Responses
3	Predominant Land Uses in Site Vicinity	Railroad	4
		Mining	4
		Airport	3
		Park	1
		Wetland	1
		Quarry	1
4	Treatment, Storage, or Disposal Activities Occurring at Site	Dust control/waste oil spraying	13
		None	6
		Grain fumigation/storage	4
		Discharge to sewer/surface water	2
		Fire/burn pit	2
		Sludge deposition	2
		Contaminated well(s)	2
		Wastewater treatment	1
		Permitted discharge	1
		Asbestos storage/disposal	1
		Manure spreading	1
8	Owner/Operator of Site at Time of Preliminary Assessment	Church	1
		Hospital	1
9	Owner/Operator of Site at Time of Contamination	No contamination	32
11	Industry Responsible for Generating Waste: Major Categories	Municipal landfill	48
		Recycling	6
		Dust suppression/oil spraying	5
		Auto service-related	2
		Military facility	2
		Chemical/gas/storage/distribution	2
		Railroad	2
		Waste transportation	2
		Research facility/hospital	2
		Other waste facility	1
		Cleaning/spill service	1
		Glass manufacturing	1
		Tannery/leather shop	1
		Other manufacturing	1
		Retail	1
		Public works	1
		Painter	1
		Farming	1
		Warehouse	1
		Oil transportation/storage	1
		Truck accident	1

RESPONSES FROM "OTHER" CATEGORY (continued)

Chart	Title	Response	Number of Responses
13	Waste Depositor	No contamination	32
		Present and former owner	9
		Third party	6
15	Types of PA-level Information Available and Used to Characterize CERCLIS Sites	CERCLA-related	41
		Correspondence	9
		RCRA-related	6
		Dioxin study	4
		State forms-unspecified	2
		News articles	2
		EPA document-unspecified	2
		Trip reports	1
		Miscellaneous	15
16	How Site Identified	Military/Federal program	10
		TSCA/FIFRA related	8
		Eckhardt list	7
		Spill	1
		Self Reported	1
		Newspaper	1
18	Regulatory Activities Prior to Preliminary Assessment	Dioxin program	4
		Environmental assessment	4
		OSHA-related	3
		Air-related	2
		TSCA/FIFRA related	2
		Inspection/order-unspecified	2
		CERCLA-related	1
		Not specified	1
24	Predominant Waste Types: Hazardous Category Details	Baghouse dust	3
		Fiberglass wastes	1
		Cellophane waste	1
		Plasticizers	1
		Battery electrolyte	1
		Cyanide stripper	1
25	Predominant Waste Types: Non-hazardous Category Details	Brine	1

APPENDIX B: REGION 7 CERCLIS MAP

CERCLIS SAMPLE SITES IN REGION 7



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