#### ILLINOIS POLLUTION CONTROL BOARD March 2, 2006

IN THE MATTER OF:	)	
	)	
PROPOSED NEW AND UPDATED RULES	)	R03-9
FOR MEASUREMENT AND NUMERICAL	)	(Rulemaking - Noise)
SOUND EMISSIONS STANDARDS	)	-
AMENDMENTS TO 35 ILL. ADM CODE	)	
901 and 910	)	

#### Adopted Rule. Final Notice.

OPINION AND ORDER OF THE BOARD (by G.T. Girard):

Pursuant to Sections 27 and 28 of the Illinois Environmental Protection Act (Act), (415 ILCS 5/27-5/28 (2004)) and 35 Ill. Adm. Code 102.Subpart B, on February 20, 2003, the Board opened this rulemaking to propose updated regulations governing noise found in 35 Ill. Adm. Code Subtitle H. Many of the sound measurement definitions and techniques in the Board's current rules do not reflect present scientific standards. The rulemaking revises outdated numerical sound emission standards for property line noise sources found at 35 Ill. Adm. Code 901. In addition, the rulemaking adds Part 910 to the Board's rules that incorporates noise measurement techniques currently contained only in Illinois Environmental Protection Agency (Agency) rules at 35 Ill. Adm. Code 951. The Board today adopts the amendments for final notice.

#### **HISTORY OF NOISE RULEMAKING**

The Board's noise rules were updated in 1983 and again in 1987. In 1990, the Department of Energy and Natural Resource<sup>1</sup> (DENR) contracted Dr. Paul Schomer of the University of Illinois to examine the adequacy of Illinois noise regulations, and, particularly whether the existing rules were adequate to regulate discontinuous noise. Dr. Schomer's report, "Impulse Noise Study," (ILENR/RE-EA-90-16, printed November 1990, Springfield, IL) suggested some adjustments in the Board's noise regulations. In 1991, DENR contracted for an additional report by Dr. Schomer, entitled, "Proposed Revisions to Property Line Noise Source: Measurement Procedures", (ILENR/RE-EA-91/10, printed June 1991, Springfield, IL), describing and developing a systematic set of procedures for noise measurements.

During the summer of 1991, the Board prepared a proposal that attempted to translate the Schomer reports into regulatory language (<u>Amendments to 35 Ill. Adm. Code Subtitle H Noise-Pertaining to Definitions, Measurement Procedures, and Sound Emission Standards Relating to Certain Noise Sources, R91-25 (Oct. 24, 1991)). An inquiry hearing based on the document was held on November 25, 1991, in Chicago. The Board's proposal was based on revising the noise measurement procedures at Section 900.103(b) and the impulsive sound standards at Section 901.104. In addition, the Board proposed incorporating Agency noise measurement procedures</u>

<sup>&</sup>lt;sup>1</sup> In 1995, P.A. 89-50 (eff. July 1, 1995) (20 ILCS 5/801 *et seq.* (2004)) merged DENR into the Department of Natural Resources.

found at 35 Ill. Adm. Code 951 into Board regulations at 35 Ill. Adm. Code 910, by modifying the Part 951 language to incorporate the recommendations contained within the Schomer reports. In 1992, the Board closed the R91-25 docket before proceeding to first notice with proposed changes to the Board's noise rules.

#### PROCEDURAL BACKGROUND

The Board opened this rulemaking by issuing a draft for public comment on February 20, 2003. The Board elicited comments on the draft prior to first-notice publication and the Board held two hearings before Hearing Officer William F. Murphy. The first hearing was held in Springfield on May 1, 2003, no members of the public attended that hearing. The second hearing (Tr.2) was held in Chicago on May 15, 2003. Joel Sternstein and Howard Chinn of the Illinois Attorney General's Office (AGO) attended the second hearing and Mr. Chinn presented testimony. During the time that the proposal was offered for public comment, the Board received two public comments, one from the AGO (PC 2) and one from Dr. Paul Schomer (PC 1).

On July 10, 2003, the Board proposed the rule for first notice. On July 25, 2003, the first notice was published in the *Illinois Register* (27 Ill. Reg. 11908). The Board received five public comments. The comments were from Scot Forge (PC 3), Vaughan and Bushnell Manufacturing (PC 4), Illinois Association of Aggregate Producers (IAAP) (PC 5), Boughton Trucking and Materials Inc. (Boughton Trucking) (PC 6) and Intermet Decatur Foundry (Intermet) (PC 7). In general, the comments requested a site-specific rule modification or requested another hearing to discuss concerns with the proposed rule.

On October 18, 2003, the Board determined that additional hearings should be held. After holding an additional hearing, the Board determined on March 4, 2004, that administrative economy supported including site-specific changes in a new first notice. Because of this decision, the Board withdrew the first notice (*see* 28 III. Reg. 7341, 7342 (May 21, 2004)).

The Board held two hearings before Board Hearing Officer Marie Tipsord. The third hearing (Tr.3) was held February 10, 2004, in Chicago. At that hearing, Mr. John P. McGillivray testified on behalf of Scot-Forge Company and Howard Chinn testified on behalf of the AGO. The fourth hearing (Tr.4) was held November 4, 2004, in Springfield. Mr. John Henriksen and Dane Tittman testified on behalf of the IAAP.

The Board received six additional comments during the second phase of hearings. The comments were from Moline Forge (PC 8), Intermet (PC 9) IAAP (PC 10), the AGO (PC 11), Village of Bridgeview (Bridgeview) (PC 12), and the Illinois Department of Natural Resources (DNR) (PC 13).

On March 17, 2005, the Board proceeded to a second first notice with this rulemaking. That first notice was published in the *Illinois Register* on April 15, 2005 (29 Ill. Reg. 5196). The Board held an additional hearing on September 1, 2005 (Tr. 5) and at that hearing Mr. Henriksen again testified along with Mr. Willard Pierce of Evenson Explosives, LLC on behalf of IAAP. Also Mr. Jim Hafliger of the DNR testified. The public comment period closed on October 17, 2005, and the Board received six additional comments during the 2005 first-notice period. Those comments are:

PC 14	Joseph R. Angleton, Office Director, Office of Mines and Minerals, Illinois Department of Natural
	Resources
PC 15	John Henriksen, Executive Director, Illinois
	Association of Aggregate Producers
PC 16	Dr. Paul Schomer, Schomer and Associates, Inc.
PC 17	Therese M. Dorigan, Bradburne, Briller & Johnson,
	LLC
PC 18	Village of Bridgeview
PC 19	Dr. Paul Schomer, on behalf of Village of
	Bridgeview

On January 19, 2006, the Board proposed for second notice the rulemaking, making changes suggested by the comments received. The Joint Committee on Administrative Rules (JCAR) considered the rulemaking at the February 14, 2006 JCAR meeting. JCAR voted to issue a certification of no objection to the rules at that meeting. In this opinion and order the Board adopts for final notice the rulemaking with minor changes recommended by JCAR.

#### SUMMARY OF FIRST-NOTICE ACTION BY THE BOARD

The participants in this rulemaking raised a number issues concerning the proposed amendments after the publication of the first-notice opinion and order on July 10, 2003 (Proposed New and Updated Rules for Measurement and Numerical Sound Emissions Standards; Amendments to 35 III. Adm. Code 901 and 910, R03-9 (July 10, 1003)). These issues concerned the qualification of sound monitoring personnel, sound measurement procedures for establishing nuisance noise violation, numerical noise standard for highly impulsive sound from blasting operations as it applies to aggregate industry, and forging industry site-specific regulations. The Board reviewed the comments and at first notice made changes to the proposal in response. Proposed New and Updated Rules for Measurement and Numerical Sound Emissions Standards; Amendments to 35 III. Adm. Code 901 and 910, R03-9 (Mar. 17, 2005). The following is a summary of the Board's findings.

Regarding sound measurement procedures for establishing nuisance noise violations, the Board stated:

Section 910.104 clarifies that sound pressure level measurements are not required to establish a violation of the Board's nuisance noise standard at Section 900.102, although such measurements may be used as corroborating evidence. In light of this, the Board finds that compliance with the detailed sound measurement procedures set forth in Part 951 or the proposed Part 910 are not required for sound measurements used as corroborating evidence in a nuisance noise proceeding. The Board will assign appropriate weight to sound measurement data submitted in any nuisance noise complaint based on the information in the hearing

record and in accordance with the provisions of the Act. As noted in the first first-notice opinion (<u>Proposed New and Updated Rules for Measurement and Numerical Sound Emissions Standards; Amendments to 35 Ill. Adm. Code 901 and 910</u>, R03-9 (July 10, 1003)), the Board believes that this approach is consistent with the Board's precedence and case law concerning nuisance noise complaints. The Board declines to make the changes suggested by IAAP. R03-9, (Mar. 17, 2005).

Regarding the qualification of sound monitoring personnel, the Board stated:

The commenters raise a valid concern regarding the qualifications of personnel conducting sound monitoring to show compliance with the noise standards set forth at 35 III. Adm. Code 900 and 901. The Board recognizes that based on the complexity of the instrumentation used and the nature of the sound source, the validity of sound measurement data depends on the training and experience of the personnel in current techniques and principles of sound measurement. In this regard, the Board routinely determines the validity of sound measurement data in noise enforcement cases based on the qualifications of the person conducting sound measurement. In making such determinations, the Board relies on sworn expert testimony and a comprehensive record developed through a public hearing process.

The Board finds that the present regulatory structure, where the Board determines the validity of sound data on a case-by-case basis in noise enforcement cases, is a more prudent approach than prescribing vague qualification requirements. The Board believes this is especially true absent a State approved licensing or certification process. R03-9, (Mar. 17, 2005).

The Board addressed the applicability of the rules to the aggregate mines in Illinois and made changes to the rule to ensure consistency between the Board's rules and the rules of the DNR. R03-9, (Mar. 17, 2005). The Board also proposed for first notice changes to site-specific rules for certain foundries in Illinois. *Id*.

#### **SUMMARY OF SECOND-NOTICE ACTION**

The Board received six comments along with testimony at the September 1, 2005 hearing regarding the Board's 2005 first-notice proposal. Three main issues were raised in those comments and testimony. First, the applicability of the rules to aggregate producers was again raised. Second the issue of qualifications of sound monitoring personnel was brought up. Finally the issue of sound measurement procedures for establishing nuisance noise violations was raised.

The Board amended the rule in response to the comments and testimony concerning the applicability of the rules to aggregate producers. The Board proposed language which exempts blasting operations by aggregate producers from the Board's regulations and defers regulations of such noise to DNR.

As to the issue of qualification of sound monitoring personnel, the Board reiterated the position taken and first notice and stated that: "the Board is not persuaded that requiring certification . . . is appropriate. The Board will continue to review the noise emission measurements on a case-by-case basis and make determination based on the evidence provided." <u>Proposed New and Updated Rules for Measurement and Numerical Sound Emissions Standards;</u> Amendments to 35 Ill. Adm. Code 901 and 910, R03-9, (Jan. 19, 2006).

Finally on the issue of noise measurements in nuisance noise cases, the Board stated:

The Board has long held in that noise measurements may be used to substantiate or refute a nuisance noise claim. *See* <u>Discovery South Group v. PCB</u>, 275 Ill. App. 3d 547, 549, 656 N.E.2d 51, 59 (1st Dist. 1995); <u>Charter Hall Home Owners</u> <u>Association v. Overland Transportation System</u> PCB 98-81 (Oct. 1, 1998); <u>Pawlowski v. Benchwarmers Pub</u>, PCB 99-82 (Apr. 6, 2000); <u>Gladys Knox and</u> <u>David Knox v. Turris Coal Company and AEI Resources, Inc.</u>, PCB 00-140 (Jan. 9, 2003).

\* \* \*

The Board has carefully reviewed the arguments and concerns expressed by Bridgeview and Dr. Schomer. However, the Board is unconvinced that a change to the rule is necessary. First, as to the suggestion that the Board require compliance with Part 910 for measurement of noise emissions in a nuisance noise enforcement, the Board does not believe that change is necessary. If a complainant complies with the requirements of Part 910 when alleging a violation, then such a violation would be of the numeric standards and not a nuisance violation. The Board has long heard testimony in nuisance noise enforcement cases concerning the use of noise measurements. The Board examines that testimony and the measurements in light of the entirety of the evidence and renders a decision as to whether the noise unreasonably interferes with the enjoyment of life. *See e.g.*, Zivoli v. Somebody's Bar and Restaurant, PCB 90-200 (May 21, 1992). Therefore, the Board declines to make a change to the rule. *Id*.

#### **DISCUSSION**

The Board finds that the rule is economically reasonable and technically feasible. The record supports the Board's adoption of these rules and the Board adopts the rules today. The Board will now summarize the rule language as adopted today.

## <u>35 Ill. Adm. Code 910: Measurement Procedures for the</u> Enforcement of 35 Ill. Adm. Code 900 and 901

The new Part 910 sets forth the measurement procedures for enforcing the Board's noise standards in Parts 900 and 901. These procedures are essentially based upon the Agency's noise measurement protocols at 35 Ill. Adm. Code 951. The Board has made a number of substantive

changes to the Agency's measurement protocols to reflect the recommendations of the DNR's noise reports. A brief description of the proposed procedures is provided below.

# Section 910.100 General

This Section sets forth the scope of the proposed noise measurement procedures and techniques. The Board has deleted references to "Agency personnel," since the measurement procedures are applicable to any person conducting noise measurements to demonstrate compliance with Parts 900 and 901.

# Section 910.101 Personnel Qualification

The Board decided not to incorporate the Agency's personnel qualification requirements in the instant proposal since they are specific to Agency personnel, and also because the requirements are not based on any State approved licensing or certification.

# Section 910.102 Instrumentation

This section sets forth the requirements for sound measuring equipment, sound indicating devices such as magnetic tape recorder or graphic level recorder, and weather measuring instruments. These requirements are the same as those in Part 951, except for the updated references to the American National Standards Institute (ANSI), and the International Electrotechnical Commission (IEC) standards. *See* changes at Section 910.102(a).

# Section 910.103 Definitions

The Board has moved all pertinent definitions found in the Agency's regulations to 35 Ill. Adm. Code 900.103, which contains the definitions applicable to the Board's noise regulations.

# Section 910.104 Measurement Techniques for 35 Ill. Adm. Code 900

This section clarifies that while sound pressure level measurements are not required to establish a violation of the Board's nuisance noise standard at 35 Ill. Adm. Code 900.102, such measurements may be used as corroborating evidence. In this regard, the proposal requires a person conducting sound measurements to comply with the instructions of the sound measurement equipment manufacturer. Further, Section 910.104 sets forth that the measurement techniques proposed at Section 910.105 may be used as guidance. While this approach deviates from the detailed sound measurement requirements specified in Part 951, the Board believes that the proposed approach is consistent with the Board's precedence and case law concerning nuisance noise complaints.

# Section 910.105 Measurement Techniques for 35 Ill. Adm. Code 901

The measurement techniques for obtaining sound pressure levels to demonstrate compliance with Part 901 standards are essentially the same as the Agency's regulations, except for the deletion of measurement procedures for steady sound, fluctuating sound, intermittent

sound, impulsive sound, and quasi steady sound set forth at Sections 910.105(d)(3) through (d)(7), respectively. The Board notes that these measurement procedures are addressed by the measurement techniques for highly-impulsive sound set forth at Section 910.107.

# Section 910.106 Protocols for Determination of Sound Levels

This section sets forth a systematic set of procedures for determination of equivalent sound level ( $L_{eq}$ ) using as an example the determination of a 1-hour  $L_{eq}$  corrected for background ambient sound. The proposed protocols are based on the recommendations of the DENR's noise study entitled "Proposed Revisions to Property Line Noise Source: Measurement Procedures." These protocols prescribe detailed data collection requirements, and equations for averaging sound data on an energy basis. In addition, Section 910.106 prescribes procedures correcting the raw equivalent sound level for background ambient sound. The proposal also prescribes detailed procedures for measuring background ambient sound that include both direct measurement methods and the use of Tables of long-term background ambient.

# Section 910.107 Measurement Techniques for Highly-Impulsive Sound under 35 Ill. Adm. Code 901.104

Two equally valid methods are proposed for measuring highly-impulsive sound. The first method, termed the "General Method" at Section 901.107(b), provides for A-weighted  $L_{eq}$  measurement using the procedures set forth in Sections 910.105 and 910.106. The second method, which is referred to as the "Controlled Test Method" at Section 910.107(c), involves the determination of total sound exposure per hour. Again, the Board notes that the protocols are based on the DENR's noise study.

# 35 Ill. Adm. Code 901: Sound Emission Standards and Limitations for Property Line-Noise-Sources

The changes to Part 901 replace the existing Standard Land Use Coding Manual (SLUCM) based land classification, and revise the impulsive sound standards. A brief description of the proposed changes is provided below.

## Section 901.101 Classification of Land According to Use

The changes to this section update the existing land use classification, which is based on SLUCM codes, with the Land-Based Classification Standards (LBCS) codes. The Board notes that the LBCS, which replaced the 1965 SLUCM, provides a consistent model for classifying land uses based on a multi-dimensional land use classification model. While the LBCS provides for classification of land use based on activity, function, structure type, site development character, and ownership, the Board is proposing to update the SLUCM codes with the LBCS function codes. In this regard, the Board believes that the LBCS functional categories are very similar to the SLUCM categories listed in the existing regulations at Part 901, Appendix B.

Consistent with the changes to Section 901.101, the instant proposal also replaces the SLUCM Codes Table in Part 901, Appendix B with the LBCS function codes. For more detailed

information concerning the LBCS, the Board directs interested persons to review the LBCS executive summary or visit the LBCS web page (<u>www.planning.org/LBCS</u>).

# Section 901.104 Highly-Impulsive Sound

The changes to Section 901.104 clarify that the impulsive sound standards are based on 1-hour A-weighted equivalent sound levels, and revise the numeric standards. The revisions to the numeric limits for highly-impulsive sound are based on the recommendations of the DENR's Impulse Noise Study. These revisions are intended to bring highly impulsive noise standards into conformity with the standards set forth in Sections 901.102 and 901.103 in terms of the effective community response.

## Section 901.107 Exceptions

The changes to Section 901.107 exempt blasting activities from aggregate and surface coal mines from regulation under Part 901. These activities must be regulated by IDNR pursuant to Section 605 if the Surface-Mined Land Conservation and Reclamation Act (225 ILCS 715/6.5 (2004) and Section 3.13 of the Surface Coal Mining Lind Conservation and Reclamation Act (225 ILCS 720/3.13 (2004)). The Board corrected citations in this section in response to an agreement with JCAR.

# **CONCLUSION**

The Board adopts the proposal for final notice pursuant to the Illinois Administrative Procedures Act (5 ILCS 100/5-5 *et seq.* (2004). The Board finds that rule is technically reasonable and economically feasible and that the record supports the adoption of these rules.

## **ORDER**

The Board directs the Clerk to cause the filing of the following rule with the Secretary of State for publication as an adopted rule in the *Illinois Register*:

# TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE H: NOISE CHAPTER I: POLLUTION CONTROL BOARD

# PART 901 SOUND EMISSION STANDARDS AND LIMITATIONS FOR PROPERTY LINE-NOISE-SOURCES

- Section 901.101 Classification of Land According to Use
- 901.102 Sound Emitted to Class A Land
- 901.103 Sound Emitted to Class B Land
- 901.104 Highly Impulsive Sound
- 901.105 Impact Forging Operations

901.106	Prominent Discrete Tones
901.107	Exceptions
901.108	1
	Compliance Dates for Part 901
901.109	<u>Highly -</u> Impulsive Sound from Explosive Blasting
901.110	Amforge Operational Level
901.111	Modern Drop Forge Operational Level
901.112	Wyman-Gordon Operational Level
901.113	Wagner Casting Site-Specific Operational Level (Repealed)
901.114	Moline Forge Operational Level
901.115	Cornell Forge Hampshire Division Site-Specific Operational Level
901.116	Forgings and Stampings, Inc. Operational Level
901.117	Rockford Drop Forge Company Operational Level
901.118	Atlas Forgings Division of Scot Forge Company – Franklin Park
	Division Operational Level
901.119	Clifford-Jacobs Operational Level
901.120	C.S. Norcross Operational Level
901.121	Vaughan & Bushnell Operational Level
APPENDIX A	Old Rule Numbers Referenced
APPENDIX B	Land-Based Classification Standards and Corresponding 35 Ill. Adm.
	Code 901 Land Classes Standard Land Use Coding System
	<u>Code 701 Land Classes</u> Standard Land Ose Coding System

AUTHORITY: Implementing Section 25 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/25 and 27].

SOURCE: Originally filed as Part 2 of Chapter 8: Noise Pollution, effective August 10, 1973; amended at 2 III. Reg. 27, p. 223, effective June 26, 1978; amended at 5 III. Reg. 6371, effective June 1, 1981; amended at 5 III. Reg. 8533, effective August 10, 1981; amended at 6 III. Reg. 10960, effective September 1, 1982; codified at 7 III. Reg. 13646; amended at 7 III. Reg. 14519, effective October 17, 1983; amended in R83-35 at 8 III. Reg. 18893, effective September 25, 1984; amended in R83-33, 26, 29, 30 and R83-34 at 9 III. Reg. 1405, effective January 17, 1985; Section 901.105(f)(1), (2) and (3) recodified to Sections 901.110, 901.111 and 901.112 at 9 III. Reg. 7147; amended in R83-25, 31 and 32 at 9 III. Reg. 7149, effective May 7, 1985; amended in R83-7 at 11 III. Reg. 3136, effective January 28, 1987; amended in R04-11, at 28 III. Reg. 11910, effective July 30, 2004; amended in R03-9 at 30 III. Reg. \_\_\_\_\_\_, effective\_\_\_\_\_\_.

Section 901.101 Classification of Land According to Use

<u>a)</u> The land use classification system used for the purposes of applying numeric sound standards for this Part is based on the Land-Based Classification Standards (LBCS) (Jeer, Sanjay. 2001. Land-Based Classification Standards . Online, http://www.planning.org/LBCS. American Planning Association: Chicago, Illinois). The LBCS applicable to this Part is set forth in Appendix B.

- <u>c)</u> b) Class B land <u>includes shall include</u> all land used as specified by <u>LBCS Codes</u> 2100 through 2336, 2500 through 2720, 3500 through 3600, 4220 through 4243, 5100 through 5160, 5300 through 5390, 5400, 6147, 6210 through 6221, 6300 through 6320, 6400 through 6430, 6560 through 6567, 6700 through 6830, 7100 through 7380. <u>SLUCM Codes 397, 471 through 479 inclusive, 511 through 599</u> inclusive, 611 through 649 inclusive, 652 through 673 inclusive, 675, 692, 699, 7124, 7129, 719, 721, 722 except 7223, 723 through 761 inclusive except 7311, 769 through 790 inclusive, and 922.
- <u>d)</u> c) Class C land <u>includes shall include</u> all land used as specified by <u>LBCS Codes</u> <u>3100 through 3440, 4120 through 4180, 4210 through 4212, 4300 through 4347,</u> <u>7400 through 7450, 8000 through 8500, and 9100 through 9520.</u> <u>SLUCM Codes</u> <u>211 through 299 inclusive, 311 through 396 inclusive, 399, 411 except 4111, 412</u> <u>except 4121, 421, 422, 429, 441, 449, 460, 481 through 499 inclusive, 7223 and</u> <u>7311 used for automobile and motorcycle racing, and 811 through 890 inclusive.</u>
- <u>e)</u> d) A parcel or tract of land used as specified by <u>LBCS SLUCM</u> Code <u>9100, 9400, or</u> <u>5500</u> <del>81, 83, 91, or 922</del>, when adjacent to Class B or C land may be classified similarly by action of a municipal government having zoning jurisdiction over such land. Notwithstanding any subsequent changes in actual land use, land so classified <u>retains shall retain</u> such B or C classification until the municipal government removes the classification adopted by it.

(Source: Amended at 30 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 901.102 Sound Emitted to Class A Land

a) Except as elsewhere <u>provided</u> in this Part <del>provided</del>, no person shall cause or allow the emission of sound during daytime hours from any property-line-noise-source located on any Class A, B or C land to any receiving Class A land which exceeds any allowable octave band sound pressure level specified in the following table, when measured at any point within such receiving Class A land, provided, however, that no measurement of sound pressure levels shall be made less than 25 feet from such property-line-noise-source.

Octave Band Center	Allowable Octave Band Sound Pressure Levels (dB) of Sound
Frequency (Hertz)	Emitted to any Receiving Class A Land from

Class C Land Class B Land Class A Land

31.5	75	72	72
63	74	71	71
125	69	65	65
250	64	57	57
500	58	51	51
1000	52	45	45
2000	47	39	39
4000	43	34	34
8000	40	32	32

b) Except as <u>provided</u> elsewhere in this Part <del>provided</del>, no person shall cause or allow the emission of sound during nighttime hours from any property-line-noise-source located on any Class A, B or C land to any receiving Class A land which exceeds any allowable octave band sound pressure level specified in the following table, when measured at any point within such receiving Class A land, provided, however, that no measurement of sound pressure levels shall be made less than 25 feet from such property-line-noise-source.

Octave Band Center	Allowable Octave Band Sound Pressure Levels (dB) of Sound
Frequency (Hertz)	Emitted to any Receiving Class A Land from

	Class C Land	Class B Land	Class A Land
31.5	69	63	63
63	67	61	61
125	62	55	55
250	54	47	47
500	47	40	40
1000	41	35	35
2000	36	30	30
4000	32	25	25
8000	32	25	25
(Source: Amended	at 30 Ill. Reg.	, effective	)

Section 901.103 Sound Emitted to Class B Land

Except as <u>provided</u> elsewhere in this Part <del>provided</del>, no person shall cause or allow the emission of sound from any property-line-noise-source located on any Class A, B or C land to any receiving Class B land which exceeds any allowable octave band sound pressure level specified in the following table, when measured at any point within such receiving Class B land, provided, however, that no measurement of sound pressure levels shall be made less than 25 feet from such property-line-noise-source.

Octave Band CenterAllowable Octave Band Sound Pressure Levels (dB) of SoundFrequency (Hertz)Emitted to any Receiving Class B Land from

	Class C Land	Class B Land	Class A Land
31.5	80	79	72
63	79	78	71
125	74	72	65
250	69	64	57
500	63	58	51
1000	57	52	45
2000	52	46	39
4000	48	41	34
8000	45	39	32
(Source: Amended a	t 30 Ill. Reg	, effective	)

Section 901.104 <u>Highly-Impulsive Sound</u>

Except as <u>provided</u> elsewhere in this Part <del>provided</del>, no person shall cause or allow the emission of <u>highly-</u>impulsive sound from any property-line-noise-source located on any Class A, B, or C land to any receiving Class A or B land which exceeds the allowable A-weighted sound levels, measured with fast dynamic characteristic, specified in the following table when measured <u>in</u> <u>accordance with the procedure of 35 III. Adm. Code 900.103</u> at any point within such receiving Class A or B land, provided, however, that no measurement of sound levels shall be made less than 25 feet from such property-line-noise-source.

Classification of Land on which Property-Line Noise-Source: is Located	U	hted Sound Levels in E Emitted to Receiving C	
	Class B Land	Class A Land	Nichttime
		Daytime	Nighttime
Class A Land	<del>50</del> - <u>47</u>	<del>50</del> <u>47</u>	<u>45—37</u>
Class B Land	<del>57</del> <u>54</u>	<del>50</del> - 47	<u>45</u> <u>37</u>
Class C Land	<u>61</u> <u>58</u>	<del>56</del> <u>53</u>	4 <del>6</del> 43
(Source: Amended at	t 30 III. Reg	, effective	)

Section 901.105 Impact Forging Operations

a) For purposes of this <u>Section</u>, <del>rule</del> only the following are applicable:

1) Daytime hours <u>means shall mean</u> any continuous 16-hour period between 6:00 a.m. and 11:00 p.m. local time; and

- 3) The reference time for  $L_{eq}$ , as defined in 35 Ill. Adm. Code 900.101 is one hour.
- 4) New Impacting Forging Operation is that property-line-noise-source comprised of impact forging operation on which construction began after September 1, 1982.
- 5) Existing Impact Forging Operation is that property-line-noise-source comprised of impact forging operations which are in existence on September 1, 1982,
- b) Emission Limitations for New Impact Forging Operation. No impact forging operation shall cause or allow the emission of impulsive sound to any receiving Class A or B land which exceeds the allowable sound levels specified in the following table when measured at any point within such receiving land, provided however, that no measurement of sound levels shall be made less than 25 feet from such new impact forging operation's property-line.

Allowable <u>Highly-</u> Impulsive Sound Levels (L<sub>eq</sub>) in Decibels Emitted To Class A or B Land from New Impact Forging Operation

Class B Land	Class A Land	
	Daytime	Nighttime
59.5 <del>Leg</del>	53.5 <del>Leq</del>	48.5 <del>Leq</del>

c) Limitations for Existing Impact Forging Operation

No existing impact forging operation shall cause or allow the emission of <u>highly</u>impulsive sound to any receiving Class A or B land which exceeds the allowable sound levels specified in the following table, when measured at any point within such receiving land, provided however, that no measurement of sound levels shall be made less than 25 feet from such existing impact forging operation's propertyline, unless such forging operation is granted a permanent site specific allowable operational level pursuant to <u>subsection</u> <del>subparagraph</del> (d).

Allowable <u>Highly-</u> Impulsive Sound Levels (L<sub>eq</sub>) in Decibels Emitted To Class A or B Land from Existing Impact Forging Operation

Class B Land

Class A Land

	Daytime	Nighttime
64.5 <del>Leq</del>	58.5 <del>Leq</del>	53.5 <del>Leq</del>

- d) Site Specific Allowable Operational Level for Existing Impact Forging Operation
  - An existing impact forging operation which does not comply with <u>subsection</u> <u>subparagraph</u> (c) may seek a permanent site specific allowable operational level from the Board. A permanent site specific level is that level of operation allowed petitioner after review and approval by the Board and after implementation of <u>abatement abated</u> measures, if any, approved by the Board.
  - 2) Any existing impact forging operation seeking a permanent site specific operational level must submit as its petition the following:
    - A) The location of the petitioner, a description of the surrounding community, and a map locating the petitioner within the community;
    - B) A description of the petitioner's operations, the number and size of the petitioner's forging hammers, the current hours of hammer operation, the approximate number of forgings manufactured during each of the three prior calendar years and the approximate number of hammer blows used to manufacture the forgings.
    - C) A description of any existing sound abatement measure.
    - D) The sound levels in excess of those permitted by <u>subsection</u> <del>subparagraph</del> (c) emitted by the petitioner into the community, in 5 decibel increments measured in  $\underline{L}_{eq}$  Leq, shown on the map of the community.
    - E) The number of residences exposed to sound levels in excess of those permitted by <u>subsection</u> <del>subparagraph</del> (c);
    - F) A description of other significant sources of noise (mobile and stationary) and their location shown on the map of the community;
    - G) A description of the proposed operational level and proposed physical abatement measures, if any, a schedule for their implementation and their costs;
    - H) The predicted improvement in community sound levels as a result of implementation of the proposed abatement measures; and

- I) A description of the economic and technical considerations which justify the permanent site specific allowable operational level sought by petitioner.
- 3) An existing impact forging operation seeking a permanent site specific operational level shall prepare and file its petition with the Board and Agency as applicable no later than December 1, 1983.
- 4) The Agency shall prepare a written evaluation regarding each petition seeking a permanent site specific operational level and shall file said evaluation within ninety (90) days following receipt of the petition with both the Board and the petitioner.
- e) Land Use Classifications Preserved

The land use classifications in effect within a one-mile radius of an existing impact forging operation on September 1, 1982 <u>remains shall remain</u> the applicable land use classification for enforcement of these rules against an existing forging operation and any future modification thereof, regardless of actual subsequent changes in land use unless such actual changes would impose less restrictive limitations on the impact forging operations.

f) Site-Specific Operational Levels
 Each individual existing forging operation identified in Sections 901.110, 901.111
 and 901.112 must comply with the site-specific operational level defined, or is
 otherwise subject to Section 901.105(c).

(Source: Amended at 30 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 901.106 Prominent Discrete Tones

- a) No person shall cause or allow the emission of any prominent discrete tone from any property-line-noise-source located on any Class A, B or C land to any receiving Class A, B or C land, provided, however, that no measurement of onethird octave band sound pressure levels shall be made less than 25 feet from such property-line source.
- b) This rule shall not apply to prominent discrete tones having a one-third octave band sound pressure level 10 or more dB below the allowable octave band sound pressure level specified in the applicable tables in Sections 901.102 through 901.104 for the octave band which contains such one-third octave band. In the application of this sub-section, the applicable <u>numeric standard</u> table for sound emitted from any existing property-line\_noise\_source to receiving Class A land, for both daytime and nighttime operations, is shall be found in Section 901.102(a).

(Source: Amended at 30 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 901.107 Exceptions

- a) Sections 901.102 through 901.106 inclusive <u>does shall</u> not apply to sound emitted from land used as specified by <u>LBCS Codes 1100, 6600 and 5500</u> <del>SLUCM Codes</del> <u>110, 140, 190, 691, and 742 except 7424 and 7425</u>.
- b) Sections 901.102 through 901.106 inclusive <u>does shall</u> not apply to sound emitted from emergency warning devices and unregulated safety relief valves.
- c) Sections 901.102 through 901.106 inclusive <u>does shall</u> not apply to sound emitted from lawn care maintenance equipment and agricultural field machinery used during daytime hours. For the purposes of this sub-section, grain dryers operated off the farm are shall not be considered agricultural field machinery.
- d) Sections 901.102 through 901.106 inclusive <u>do shall</u> not apply to sound emitted from equipment being used for construction.
- e) Section 901.102(b) <u>do shall</u> not apply to sound emitted from existing propertyline-noise-sources during nighttime hours, provided, however, that sound emitted from such existing property-line-noise-sources <u>are shall be</u> governed during nighttime hours by the limits specified in Section 901.102.
- f) Sections 901.102 through 901.106 inclusive <u>do shall</u> not apply to the operation of any vehicle registered for highway use while such vehicle is being operated within any land used as specified by Section 901.101 in the course of ingress to or egress from a highway.
- g) Sections 901.102 through 901.106 inclusive do shall not apply to sound emitted from land used as specified by <u>LBCS Codes 5130 and 5140</u> SLUCM Codes 7223 and 7311 when used for automobile and motorcycle racing; and, any land used for contests, rallies, time trials, test runs or similar operations of any self-propelled device, and upon or by which any person is or may be transported or drawn, when such self-propelled device is actually being used for sport or recreation and is actually participating in an activity or event organized, regulated, and supervised under the sponsorship and sanction of a club, organization or corporation having national or statewide recognition; provided, however, that the exceptions granted in this <u>subsection subparagraph do shall</u> not apply to any automobile and motorcycle race, contest, rally, time trial, test run or similar operation of any selfpropelled device if such event is started between the hours of 10:30 p.m. to 7:00 a.m., local time weekdays, or between the hours of 11:00 p.m. and 7:00 a.m., local time, weekend days.
- h) Section 901.104 shall not apply to impulsive sound produced by explosive blasting activities conducted on any Class C land other than the land used as

specified by <u>LBCS Codes 8300 and 8500</u> <u>SLUCN codes 852 and 854</u>, but such operations shall be governed by Section 901.109.

- i) Part 901 shall not apply to impulsive sound produced by explosive blasting activities, which are:
  - 1) Conducted on any Class C land used as specified by LBCS Codes 8300 and 8500; and
  - <u>Regulated by the Department of Natural Resources in accordance with</u>
     <u>Section 6.5 of the Surface-Mined Land Conservation and Reclamation Act</u>
     [225 ILCS 715/6.5] and Section 3.13 of the Surface Coal Mining Land
     <u>Conservation and Reclamation Act</u> [225 ILCS 720/3.13].
- ji) Sections 901.102 through 901.106 inclusive, <u>do shall</u> not apply to sound emitted from snowmobiles.

(Source: Amended at 30 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 901.108 Compliance Dates for Part 901

- a) Except as provided in <u>subsections</u> <del>subparagraphs</del> (g), (i), and (j), every owner or operator of a new property-line-noise-source <u>must shall</u> comply with the standards and limitations of this Part on and after August 10, 1973.
- b) Except as otherwise provided in this rule, every owner or operator of an existing property-line-noise-source <u>must shall</u> comply with the standards and limitations of this Part on and August 10, 1974.
- c) Every owner or operator of an existing property-line-noise-source who emits sound which exceeds any allowable octave band sound pressure level of Section 901.102 or 901.103 by 10 dB or more in any octave band with a center frequency of 31.5 Hertz, 63 Hertz or 125 Hertz <u>must shall</u> comply with the standards and limitations of this Part on and after February 10, 1975.
- d) Except as provided in <u>subsections</u> <u>subparagraphs</u> (g) and (h), every owner or operator of an existing property-line-noise-source required to comply with Section 901.104 <u>must shall</u> comply with the standards and limitations of this Part on and after February 10, 1975.
- e) Every owner or operator of an existing property-line-noise-source required to comply with Section 901.106 <u>must shall</u> comply with the standards and limitations of this Part on and after February 10, 1975.
- f) Repealed

- <u>f)g</u>) Every owner or operator of Class C land now and hereafter used as specified by <u>LBCS Code 4120 SLUCM Code 4112 shall will</u> have until August 10, 1976 to bring the sound from railroad car coupling in compliance with Section 901.104.
- <u>g)h</u>) Existing impact forging operations as defined in Section 901.105 which do not seek permanent site specific allowable operational levels <u>must shall</u> comply with Section 901.105 by December 1, 1983. Those seeking permanent site specific allowable operational levels pursuant to Section 901.105(d) <u>must shall</u> comply as of the effective date of the site specific rule granted or denied.
- <u>h)</u>;) Every owner or operator of Class C land now or hereafter used as specified by <u>LBCS Code 3310</u> <u>SLUCM Code 291</u> <u>must shall</u> comply with the standards and limitations of this Part on August 10, 1975.
- i);) Every owner or operator of Class C land now or hereafter used as specified by <u>LBCS Code 5130 and 5140</u> SLUCM Code 7223 and 7311 when used for automobile and motorcycle racing <u>shall-must</u> comply with the standards and limitations of this Part on February 10, 1976.

(Source: Amended at 30 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 901.109 <u>Highly-Impulsive Sound From Explosive Blasting</u>

a) During the daytime hours <u>that cover the period</u>, after sunrise and before sunset, no person shall cause or allow any explosive blasting conducted on any Class C land <u>other than land</u> used as specified by <u>LBCS Codes 8300 and 8500</u> <u>SLUCM Codes</u> 852 and 854- so as to allow the emission of sound to any receiving Class A or B land which exceeds the allowable outdoor C-weighted sound levels, measured with the slow dynamic characteristic, specified in the following table, when measured at any point, of reasonable interference with the use of such receiving Class A or B land.

Allowable Outdoor C-Weighted Sound <u>Exposure</u> Levels in Decibels of Explosive Blasting Sounds Emitted to Receiving Class A or B Land from Any Class C Land <u>other than Land</u> Used as Specified by <u>LBCS Code 8300 or 8500 SLUCM Code 852 or 854</u>

Receiving Class A Land <u>109–107</u> The allowable sound exposure level limits in the above table must be lowered by three decibels (3 dB) for each doubling of the number of blasts during the day or night. b) Compliance with outdoor peak sound pressure level limits in the following table shall constitute prima facie level limits of this rule when measured on such receiving Class A or B land.

Equivalent Maximum Sound Pressure Level (Peak) Limits in Decibels

Lower Frequency Limit of Measuring System for Flat Response, a Variation from Linear Response of + or - 3dB (Hz)	Receiving Class A Land (dB)	Receiving Class B Land (dB)
$\frac{\leq 0.0.1}{\leq 2.0 \text{ but } > 0.1}$ $\frac{\leq 6.0 \text{ but greater than } 2.0}{\leq 6.0 \text{ but greater than } 2.0}$	<del>135</del> 13 <u>3</u> 2 <del>130</del>	140 <u>133</u> 7 <del>135</del>

The allowable equivalent maximun sound pressure level limits in the above table shall be lowered by two decibels (2 dB) for each doubling of the number of blasts during the day or night.

- c) During the <u>period defined by both the beginning of the nighttime hours (10:00 pm) or sunset</u>, whichever occurs earlier, and the ending of the nighttime hours (7:00 am) or after sunset and before sunrise, whichever occurs later, the allowable sound level limits in <u>subsections subparagraphs</u> (a) and (b) <u>must shall</u> be reduced by 10 <u>decibels decibles</u> except in emergency situations where rain, lightning, other atmospheric conditions, or operator or public safety requires unscheduled nighttime hour explosive blasting.
- d) Persons causing or allowing explosive blasting to be conducted on any Class C land <u>other than land</u> used as specified by <u>LBCS Code 8300 or 8500</u> <u>SLUCM code 852 or 854 must shall</u> notify the local public of such blasting prior to its occurrence, except when emergency situations require unscheduled blasting, by publication of a blasting schedule, identifying the work days or dates and time periods when explosives are expected to be detonated, at least every three months in a newspaper of general circulation in the locality of the blast site.

(Source: Amended at 30 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 901.110 Amforge Operational Level

Amforge Division of Rockwell International located at 119th Street, Chicago, Illinois must shall:

a) Operate only ten forging hammers at any one time; and

- b) Operation of its forging hammers is limited to the hours of 7:00 a.m. through 11:00 p.m., with occasional operations beginning at 6:00 a.m. and ending at midnight, Monday through Saturdays; and
- c) <u>Install sound Sound</u> absorptive materials shall be installed on each of the forging hammer structures as each is routinely overhauled, but no later than January 1, 1987.

(Source: Amended at 30 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 901.111 Modern Drop Forge Operational Level

Modern Drop Forge Company located at 139th Street and Western Avenue in Blue Island, Illinois <u>must shall</u>:

- a) Operate only twenty-one forging hammers at any one time; and
- b) Operate its forging hammers only during the hours of 6:00 a.m. through midnight, Mondays through Fridays, and 6:30 a.m. until 7:30 p.m. on Saturdays.

(Source: Amended at 30 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 901.113 Wagner Casting Site-Specific Operational Level (Repealed)

Wagner Casting Company and future owners of the forging facility located at the southeast corner of Sangamon and Jasper Streets in Decatur, Illinois, must comply with the following site-specific operational level or are otherwise subject to Section 901.105(c):

a) Shall operate no more than nine forging hammers at any one time; and

b) Shall operate its forging hammers only between the hours of 5:00 a.m. Monday through 9:00 p.m. Saturday.

(Source: Repealed at 30 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 901.118 Atlas Forgings Division of Scot Forge Company – Franklin Park Division Operational Level

Atlas Forge Division of Scot Forge and future owners of the forging facility located at <u>9394 W.</u> <u>Belmont Avenue, Franklin Park</u> 1501 South 55th Court, Cicero, Illinois, <u>must shall</u> comply with the following site-specific operational level:

a) Operate no more than <u>seven three</u> forging hammers at any one time; and

b) Operate its forging hammers only between the hours of 6:00 a.m. and 6:00 p.m. Monday through Saturday.

(Source: Amended at 30 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 901.121 Vaughan & Bushnell Operational Level

Vaughan & Bushnell Manufacturing Company and the future owners of the forging facility located at the intersection of Davis and Main Streets, Bushnell, Illinois, <u>must shall</u> comply with the following site-specific operational level:

- a) Operate no more than ten hammers at any one time; and
- b) Operate its forging hammers only between the hours of 6:00 a.m. and 1:30 <u>a.m.</u> p.m. Monday through Saturday.

(Source: Amended at 30 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

#### Section 901.APPENDIX B Land-Based Classification Standards and Corresponding 35 Ill. Adm. Code 901 Land Classes Standard Land Use Coding System

L	BCS		
<u>Main</u> <u>Category</u>	<u>Function</u> <u>Code</u>	<u>Description</u>	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
SI	<u>1000</u>	Residence or accommodation functions	<u>A</u>
accommodation functions	<u>1100</u> 1200	Private household Housing services for the elderly	
func	<u>1200</u> <u>1210</u>	Retirement housing services	
ion	1220	Congregate living services	1
odat	<u>1230</u>	Assisted-living services	<u> </u>
nma	<u>1240</u>	Life care or continuing care services	
000	<u>1250</u>	Skilled-nursing services	
or ac	<u>1300</u>	Hotels, motels, or other accommodation services	
ce c	<u>1310</u>	Bed and breakfast inn	
Residence	<u>1320</u>	Rooming and boarding	$\overline{\mathbf{+}}$
esic	<u>1330</u>	Hotel, motel, or tourist court	
	<u>1340</u>	Casino hotel	<u>A</u>
U el C	a <u>2000</u>	General sales or services	

Image: Security in the security of the	LBCS			
2110       Automobile sales or service establishment         2111       Car dealer         2112       Bus, truck, mobile homes, or large vehicles         2113       Bicycle, motorcycle, ATV, etc.         2114       Boat or marine craft dealer         2115       Parts, accessories, or tires         2116       Gasoline service         2120       Heavy consumer goods sales or service         2121       Furniture or home furnishings         2122       Hardware, home centers, etc.         2123       Lawn and garden supplies         2124       Department store, warehouse club or superstore         2125       Electronics and Appliances         2126       Lumber yard and building materials         2127       Heating and plumbing equipment         2130       Durable consumer goods sales and service         2131       Computer and software         2132       Camera and photographic supplies         2133       Clothing, jewelry, luggage, shoes, etc.         2134       Sporting goods, toy and hobby, and musical instruments         2135       Books, magazines, music, stationery         2140       Consumer goods, other         2141       Florist         2142       Art dealers, supplies, sales and	<u>Main</u> Category	<u>Function</u> <u>Code</u>	<b>Description</b>	<u>901 Land</u>
2110       Automobile sales or service establishment         2111       Car dealer         2112       Bus, truck, mobile homes, or large vehicles         2113       Bicycle, motorcycle, ATV, etc.         2114       Boat or marine craft dealer         2115       Parts, accessories, or tires         2116       Gasoline service         2120       Heavy consumer goods sales or service         2121       Furniture or home furnishings         2122       Hardware, home centers, etc.         2123       Lawn and garden supplies         2124       Department store, warehouse club or superstore         2125       Electronics and Appliances         2126       Lumber yard and building materials         2127       Heating and plumbing equipment         2130       Durable consumer goods sales and service         2131       Computer and software         2132       Camera and photographic supplies         2133       Clothing, jewelry, luggage, shoes, etc.         2134       Sporting goods, toy and hobby, and musical instruments         2135       Books, magazines, music, stationery         2140       Consumer goods, other         2141       Florist         2142       Art dealers, supplies, sales and		2100	Retail sales or service	B
2112Bus, truck, mobile homes, or large vehicles2113Bicycle, motorcycle, ATV, etc.2114Boat or marine craft dealer2115Parts, accessories, or tires2116Gasoline service2120Heavy consumer goods sales or service2121Furniture or home furnishings2122Hardware, home centers, etc.2123Lawn and garden supplies2124Department store, warehouse club or superstore2125Electronics and Appliances2126Lumber yard and building materials2131Computer and software2132Camera and photographic supplies2133Clothing, jewelry, luggage, shoes, etc.2134Sporting goods, toty and hobby, and musical instruments2135Books, magazines, music, stationery2140Consumer goods, other2141Florist2142Art dealers, supplies, sales and service2143Tobacco or tobacconist establishment2144Mail order or direct selling establishment2145Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store				_
2113Bicycle, motorcycle, ATV, etc.2114Boat or marine craft dealer2115Parts, accessories, or tires2116Gasoline service2120Heavy consumer goods sales or service2121Furniture or home furnishings2122Hardware, home centers, etc.2123Lawn and garden supplies2124Department store, warehouse club or superstore2125Electronics and Appliances2126Lumber yard and building materials2131Computer and software2132Camera and photographic supplies2133Clothing, jewelry, luggage, shoes, etc.2134Sporting goods, toty and hobby, and musical instruments2135Books, magazines, music, stationery2140Consumer goods, other2141Florist2142Art dealers, supplies, sales and service2143Tobacco or tobacconist establishment2144Mail order or direct selling establishment2145Grocery, food, beverage, dairy, etc.2151Grocery, food, beverage, dairy, etc.2152Conveninece store2153Specialty food store2154Fruit and vegetable store		2111	<u>Car dealer</u>	
2114Boat or marine craft dealer2115Parts, accessories, or tires2116Gasoline service2120Heavy consumer goods sales or service2121Furniture or home furnishings2122Hardware, home centers, etc.2123Lawn and garden supplies2124Department store, warehouse club or superstore2125Electronics and Appliances2126Lumber yard and building materials2127Heating and plumbing equipment2130Durable consumer goods sales and service2131Computer and software2132Camera and photographic supplies2133Clothing, jewelry, luggage, shoes, etc.2134Sporting goods, toy and hobby, and musical instruments2135Books, magazines, music, stationery2140Consumer goods, other2141Florist2142Art dealers, supplies, sales and service2143Tobacco or tobacconist establishment2144Mail order or direct selling establishment2145Antique shops, flea markets, etc.2150Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store		<u>2112</u>	Bus, truck, mobile homes, or large vehicles	$\perp$
2115Parts, accessories, or tires2116Gasoline service2120Heavy consumer goods sales or service2121Furniture or home furnishings2122Hardware, home centers, etc.2123Lawn and garden supplies2124Department store, warehouse club or superstore2125Electronics and Appliances2126Lumber yard and building materials2127Heating and plumbing equipment2130Durable consumer goods sales and service2131Computer and software2132Camera and photographic supplies2133Clothing, jewelry, luggage, shoes, etc.2134Sporting goods, toy and hobby, and musical instruments2135Books, magazines, music, stationery2140Consumer goods, other2141Florist2142Art dealers, supplies, sales and service2143Tobacco or tobacconist establishment2144Mail order or direct selling establishment2150Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store		<u>2113</u>	Bicycle, motorcycle, ATV, etc.	$\perp$
2116Gasoline service2120Heavy consumer goods sales or service2121Furniture or home furnishings2122Hardware, home centers, etc.2123Lawn and garden supplies2124Department store, warehouse club or superstore2125Electronics and Appliances2126Lumber yard and building materials2127Heating and plumbing equipment2130Durable consumer goods sales and service2131Computer and software2132Camera and photographic supplies2133Clothing, jewelry, luggage, shoes, etc.2134Sporting goods, toy and hobby, and musical instruments2135Books, magazines, music, stationery2140Consumer goods other2141Florist2142Art dealers, supplies, sales and service2143Tobacco or tobacconist establishment2144Mail order or direct selling establishment2145Antique shops, flea markets, etc.2150Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store		<u>2114</u>	Boat or marine craft dealer	$\perp$
2120Heavy consumer goods sales or service2121Furniture or home furnishings2122Hardware, home centers, etc.2123Lawn and garden supplies2124Department store, warehouse club or superstore2125Electronics and Appliances2126Lumber yard and building materials2127Heating and plumbing equipment2130Durable consumer goods sales and service2131Computer and software2132Camera and photographic supplies2133Clothing, jewelry, luggage, shoes, etc.2134Sporting goods, toty and hobby, and musical instruments2135Books, magazines, music, stationery2140Consumer goods, other2141Florist2142Art dealers, supplies, sales and service2143Tobacco or tobacconist establishment2144Mail order or direct selling establishment2145Antique shops, flea markets, etc.2150Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store		<u>2115</u>	Parts, accessories, or tires	$\perp$
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2123Lawn and garden supplies2124Department store, warehouse club or superstore2125Electronics and Appliances2126Lumber yard and building materials2127Heating and plumbing equipment2130Durable consumer goods sales and service2131Computer and software2132Camera and photographic supplies2133Clothing, jewelry, luggage, shoes, etc.2134Sporting goods, toy and hobby, and musical instruments2140Consumer goods, other2141Florist2142Art dealers, supplies, sales and service2143Tobacco or tobacconist establishment2144Mail order or direct selling establishment2145Antique shops, flea markets, etc.2150Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store		<u>2121</u>	Furniture or home furnishings	$\perp$
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2125Electronics and Appliances2126Lumber yard and building materials2127Heating and plumbing equipment2130Durable consumer goods sales and service2131Computer and software2132Camera and photographic supplies2133Clothing, jewelry, luggage, shoes, etc.2134Sporting goods, toy and hobby, and musical instruments2135Books, magazines, music, stationery2140Consumer goods, other2141Florist2142Art dealers, supplies, sales and service2143Tobacco or tobacconist establishment2144Mail order or direct selling establishment2150Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store		<u>2123</u>	Lawn and garden supplies	$\perp$
2126Lumber yard and building materials2127Heating and plumbing equipment2130Durable consumer goods sales and service2131Computer and software2132Camera and photographic supplies2133Clothing, jewelry, luggage, shoes, etc.2134Sporting goods, toy and hobby, and musical instruments2135Books, magazines, music, stationery2140Consumer goods, other2141Florist2142Art dealers, supplies, sales and service2143Tobacco or tobacconist establishment2144Mail order or direct selling establishment2145Antique shops, flea markets, etc.2150Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store		<u>2124</u>	Department store, warehouse club or superstore	$\perp$
2127       Heating and plumbing equipment		<u>2125</u>	Electronics and Appliances	$\perp$
2130       Durable consumer goods sales and service		<u>2126</u>	Lumber yard and building materials	$\perp$
2131Computer and software2132Camera and photographic supplies2133Clothing, jewelry, luggage, shoes, etc.2134Sporting goods, toy and hobby, and musical instruments2135Books, magazines, music, stationery2140Consumer goods, other2141Florist2142Art dealers, supplies, sales and service2143Tobacco or tobacconist establishment2144Mail order or direct selling establishment2145Antique shops, flea markets, etc.2150Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store		<u>2127</u>	Heating and plumbing equipment	$\perp$
2132Camera and photographic supplies2133Clothing, jewelry, luggage, shoes, etc.2134Sporting goods, toy and hobby, and musical instruments2135Books, magazines, music, stationery2140Consumer goods, other2141Florist2142Art dealers, supplies, sales and service2143Tobacco or tobacconist establishment2144Mail order or direct selling establishment2145Antique shops, flea markets, etc.2150Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store		<u>2130</u>	Durable consumer goods sales and service	$\perp$
2133Clothing, jewelry, luggage, shoes, etc.2134Sporting goods, toy and hobby, and musical instruments2135Books, magazines, music, stationery2140Consumer goods, other2141Florist2142Art dealers, supplies, sales and service2143Tobacco or tobacconist establishment2144Mail order or direct selling establishment2145Antique shops, flea markets, etc.2150Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store		<u>2131</u>	Computer and software	$\perp$
2134       Sporting goods, toy and hobby, and musical instruments       1         2135       Books, magazines, music, stationery       1         2140       Consumer goods, other       1         2141       Florist       1         2142       Art dealers, supplies, sales and service       1         2143       Tobacco or tobacconist establishment       1         2144       Mail order or direct selling establishment       1         2145       Antique shops, flea markets, etc.       1         2150       Grocery, food, beverage, dairy, etc.       1         2151       Grocery store, supermarket, or bakery       1         2152       Convenience store       1         2153       Specialty food store       1         2154       Fruit and vegetable store       1		<u>2132</u>	Camera and photographic supplies	$\perp$
2135Books, magazines, music, stationery2140Consumer goods, other2141Florist2142Art dealers, supplies, sales and service2143Tobacco or tobacconist establishment2144Mail order or direct selling establishment2145Antique shops, flea markets, etc.2150Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store		<u>2133</u>	Clothing, jewelry, luggage, shoes, etc.	$\perp$
2140Consumer goods, other2141Florist2142Art dealers, supplies, sales and service2143Tobacco or tobacconist establishment2144Mail order or direct selling establishment2145Antique shops, flea markets, etc.2150Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store		<u>2134</u>	Sporting goods, toy and hobby, and musical instruments	$\perp$
2141Florist2142Art dealers, supplies, sales and service2143Tobacco or tobacconist establishment2144Mail order or direct selling establishment2145Antique shops, flea markets, etc.2150Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store		2135	Books, magazines, music, stationery	
2142Art dealers, supplies, sales and service		2140	Consumer goods, other	
2143Tobacco or tobacconist establishment2144Mail order or direct selling establishment2145Antique shops, flea markets, etc.2150Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store		<u>2141</u>	<u>Florist</u>	$\perp$
2144Mail order or direct selling establishment		<u>2142</u>	Art dealers, supplies, sales and service	$\perp$
2145Antique shops, flea markets, etc.2150Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store		2143	Tobacco or tobacconist establishment	
2150Grocery, food, beverage, dairy, etc.2151Grocery store, supermarket, or bakery2152Convenience store2153Specialty food store2154Fruit and vegetable store		<u>2144</u>	Mail order or direct selling establishment	
2151       Grocery store, supermarket, or bakery		<u>2145</u>	Antique shops, flea markets, etc.	
2152       Convenience store		2150	Grocery, food, beverage, dairy, etc.	
2153     Specialty food store		<u>2151</u>	Grocery store, supermarket, or bakery	
<u>2154</u> Fruit and vegetable store		2152	Convenience store	
		<u>2153</u>	Specialty food store	
2155     Beer, wine, and liquor store		<u>2154</u>	Fruit and vegetable store	
		<u>2155</u>	Beer, wine, and liquor store	

LB	CS		
<u>Main</u> Category	<u>Function</u> <u>Code</u>	<b>Description</b>	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
	<u>2160</u>	Health and personal care	
	2161	Pharmacy or drug store	$\perp$
	2162	Cosmetic and beauty supplies	$\perp$
	<u>2163</u>	Optical	$\perp$
	2200	Finance and Insurance	$\perp$
	<u>2210</u>	Bank, credit union, or savings institution	$\perp$
	<u>2220</u>	Credit and finance establishment	$\perp$
	<u>2230</u>	Investment banking, securities, and brokerages	$\perp$
	2240	Insurance-related establishment	
	<u>2250</u>	Fund, trust, or other financial establishment	$\perp$
	2300	Real estate, and rental and leasing	$\perp$
	<u>2310</u>	Real estate services	$\perp$
	2320	Property management services	$\perp$
	2321	Commercial property-related	$\perp$
	<u>2322</u>	Rental housing-related	$\perp$
	<u>2330</u>	Rental and leasing	$\perp$
	<u>2331</u>	Cars	$\perp$
	2332	Leasing trucks, trailers, RVs, etc.	$\perp$
	2333	Recreational goods rental	$\perp$
	2334	Leasing commercial, industrial machinery, and equipment	$\downarrow$
	<u>2335</u>	Consumer goods rental	
	2336	Intellectual property rental (video, music, software, etc.)	B
	2400	Business, professional, scientific, and technical services	
	<u>2410</u>	Professional services	<u>A</u>
	<u>2411</u>	Legal services	
	<u>2412</u>	Accounting, tax, bookkeeping, payroll services	
	<u>2413</u>	Architectural, engineering, and related services	
	<u>2414</u>	Graphic, industrial, interior design services	
	<u>2415</u>	Consulting services (management, environmental, etc.)	
	<u>2416</u>	Research and development services (scientific, etc.)	
	<u>2417</u>	Advertising, media, and photography services	
	<u>2418</u>	Veterinary services	
	<u>2420</u>	Administrative services	
	<u>2421</u>	Office and administrative services	
	2422	Facilities support services	

LBCS			
<u>Main</u> Category	<u>Function</u> <u>Code</u>	<b>Description</b>	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
	<u>2423</u>	Employment agency	
	2424	Business support services	
	2425	Collection agency	
	2430	Travel arrangement and reservation services	
	<u>2440</u>	Investigation and security services	
	<u>2450</u>	Services to buildings and dwellings	
	<u>2451</u>	Extermination and pest control	
	2452	Janitorial	
	2453	Landscaping	$\downarrow$
	2454	Carpet and upholstery cleaning	_
	2455	Packing, crating, and convention and trade show services	<u>A</u>
	2500	Food services	B
	<u>2510</u>	Full-service restaurant	
	<u>2520</u>	Cafeteria or limited service restaurant	
	<u>2530</u>	Snack or nonalcoholic bar	
	<u>2540</u>	Bar or drinking place	
	<u>2550</u>	Mobile food services	
	<u>2560</u>	Caterer	
	<u>2570</u>	Food service contractor	
	<u>2580</u>	Vending machine operator	
	2600	Personal services	
	2700	Pet and animal sales or service (except veterinary)	$\downarrow$
	<u>2710</u>	Pet or pet supply store	
	<u>2720</u>	Animal and pet services	<u>B</u>
	3000	Manufacturing and wholesale trade	
sale	3100	Food, textiles, and related products	<u>C</u>
lole	3110	Food and beverages	
wh	3120	Tobacco manufacturing establishment	
and <u>le</u>	3130	Textiles	
<u>Manufacturing and wholesale</u> <u>trade</u>	3140	Leather and allied products	
turi	3200	Wood, paper, and printing products	1 1
fac	3210	Wood products establishment	
anu	3220	Paper and printing materials	
M	3230	Furniture and related products	

LE	BCS		
<u>Main</u> Category	Function Code	<u>Description</u>	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
	3300	Chemicals, and metals, machinery, and electronics	
		manufacturing	
	<u>3310</u>	Petroleum and coal products	
	<u>3320</u>	Chemicals, plastics, and rubber products	$\perp$
	<u>3330</u>	Nonmetallic mineral products	
	<u>3340</u>	Primary metal manufacturing	
	<u>3350</u>	Machinery manufacturing	$\perp$
	<u>3360</u>	Electrical equipment, appliance, and components manufacturing	
	3370	Transportation equipment, automobiles, etc.	
	3400	Miscellaneous manufacturing	
	3410	Jewelry and silverware	
	<u>3420</u>	Dolls, toys, games, and musical instruments	$\downarrow$
	<u>3420</u> 3430	Office supplies, inks, etc.	<u>×</u>
	<u>3440</u>	Signs	С
	<u>3500</u>	Wholesale trade establishment	B
	3510	Durable goods	
	<u>3520</u>	Nondurable goods	Ţ
	<u>3600</u>	Warehouse and storage services	<u>↓</u> <u>B</u>
		<u>materiouse una storage services</u>	<u> </u>
n,	<u>4000</u>	Transportation, communication, information, and utilities	_
nation	<u>4100</u>	Transportation services	
rma	<u>4110</u>	Air transportation	<u>U</u>
nfo	<u>4111</u>	Air passenger transportation	
n, i	<u>4112</u>	Air freight transportation	
<u>ss</u>	<u>4113</u>	Airport and support establishment	$\downarrow$
<u>nice</u> litie	<u>4114</u>	Aircraft and accessories	
<u>util</u>	<u>4115</u>	Other air transportation (including scenic, balloon, etc.)	<u>U</u>
<u>and</u>	<u>4120</u>	Rail transportation	<u>C</u>
	<u>4121</u>	Rail passenger transportation	
tior	<u>4122</u>	Rail freight transportation	
<u>ortal</u>	<u>4123</u>	Rail transportation support establishment	
spc	<u>4130</u>	Road, ground passenger, and transit transportation	
Transportation, communication, inforr and utilities	<u>4131</u>	Local transit systems-mixed mode	
Ы	<u>4132</u>	Local transit systems-commuter rail	

LB	BCS		
<u>Main</u> Category	<u>Function</u> <u>Code</u>	<u>Description</u>	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
	<u>4133</u>	Local transit systems-bus, special needs, and other motor	
	4124	vehicles	<u>+</u>
	<u>4134</u>	Interurban, charter bus, and other similar establishments	
	<u>4135</u>	School and employee bus transportation	
	<u>4136</u>	Special purpose transit transportation (including scenic, sightseeing, etc.)	
	<u>4137</u>	Taxi and limousine service	$\perp$
	<u>4138</u>	Towing and other road and ground services	$\square$
	4140	Truck and freight transportation services	
	<u>4141</u>	General freight trucking, local	
	4142	General freight trucking, long-distance	
	<u>4143</u>	Freight trucking, specialized (used household and office goods)	$ $ $\overline{+}$
	4144	Freight trucking, specialized (except used goods)	
	4150	Marine and water transportation	
	4151	Marine passenger transportation	
	4152	Marine freight transportation	
	4153	Marine port and harbor operations	
	4154	Marine cargo handling and dry dock services	
	4155	Marine navigational and other services	
	4160	Courier and messenger services	$\downarrow$
	4170	Postal services	<u> </u>
	4180	Pipeline transportation	<u>C</u>
	4200	Communications and information	· · · · · · · · · · · · · · · · · · ·
	<u>4210</u>	Publishing	<u>C</u>
	<u>4211</u>	Newspapers, books, periodicals, etc.	
	<u>4212</u>	Software publisher	
	<u>4220</u>	Motion pictures and sound recording	<u>B</u>
	<u>4221</u>	Motion picture and video production, publishing, and distribution	
	<u>4222</u>	Motion picture viewing and exhibition services	
	<u>4223</u>	Sound recording, production, publishing, and distribution	
	<u>4230</u>	Telecommunications and broadcasting	
	<u>4231</u>	Radio and television broadcasting	
	<u>4232</u>	Cable networks and distribution	

LBCS			
<u>Main</u> Category	<u>Function</u> <u>Code</u>	<b>Description</b>	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
	4233	Wireless telecommunications	
	4234	Telephone and other wired telecommunications	
	4240	Information services and data processing industries	
	4241	Online information services	$\downarrow$
	4242	Libraries and archives	_
	4243	News syndicate	B
	<b>4300</b>	Utilities and utility services	C
	4310	Electric power	
	<u>4311</u>	<u>Hydroelectric</u>	
	<u>4312</u>	Fossil	$\perp$
	<u>4313</u>	Nuclear	$\perp$
	<u>4314</u>	Alternative energy sources	$\perp$
	<u>4320</u>	Natural gas, petroleum, fuels, etc.	$\perp$
	<u>4330</u>	Water, steam, air conditioning supply	$\perp$
	<u>4331</u>	Drinking water	$\perp$
	<u>4332</u>	Irrigation and industrial water supply	$\perp$
	4333	Air conditioning and steam supply	$\perp$
	4340	Sewer, solid waste, and related services	$\perp$
	4341	Hazardous waste collection	$\perp$
	4342	Hazardous waste treatment and disposal	$\perp$
	4343	Solid waste collection	$\Box$
	4344	Solid waste combustor or incinerator	
	4345	Solid waste landfill	
	4346	Waste treatment and disposal	$\downarrow$
	4347	Septic tank and related services	_
			<u>C</u>
q	<u>5000</u>	Arts, entertainment, and recreation	
, an	<u>5100</u>	Performing arts or supporting establishment	<u>B</u>
ent. 1	<u>5110</u>	Theater, dance, or music establishment	
nm tioi	<u>5120</u>	Sports team or club	1
<u>Arts, entertainment, and</u> <u>recreation</u>	<u>5130</u>	Racetrack establishment	
<u>rec</u>	<u>5140</u>	Promoter of performing arts, sports, and similar events	<u>↓</u>
ts, é	<u>5150</u>	Agent for management services	
Art	<u>5160</u>	Independent artist, writer, or performer	<u>B</u>
	5200	Museums and other special purpose recreational institutions	<u>A</u>

LB	BCS		
<u>Main</u> Category	<u>Function</u> <u>Code</u>	<b>Description</b>	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
	<u>5210</u>	Museum	
	<u>5220</u>	Historical or archeological institution	$\downarrow$
	5230	Zoos, botanical gardens, arboreta, etc.	$\frac{\Psi}{\mathbf{A}}$
	<u>5300</u>	Amusement, sports, or recreation establishment	B
	<u>5310</u>	Amusement or theme park establishment	
	<u>5320</u>	Games arcade establishment	
	<u>5330</u>	Casino or gambling establishment	$\perp$
	5340	Miniature golf establishment	$\perp$
	5350	Skiing	
	5360	Marina or yachting club facility operators	
	5370	Fitness, recreational sports, gym, or athletic club,	Ι Ť
	5380	Bowling, billiards, pool, etc.	$\downarrow$
	5390	Skating rinks, roller skates, etc.	<u> </u>
	5400	Camps, camping, and related establishments	B
	5500	Natural and other recreational parks	Ā
	6000	Education, public admin., health care, and other inst.	1
اند	6100	Educational services	-
re, and other inst.	6110	Nursery and preschool	A
ler	6120	Grade schools	_
oth	6121	Elementary	
and	6122	Middle	
re,	6123	Senior	
l ca	6124	Continuance	
alth	6125	Alternate education services	
he	6126	Adult education services	
in	6130	Colleges and universities	
Education, public admin., health ca	<u>6140</u>	Technical, trade, and other specialty schools	
ic $\varepsilon$	<u>6141</u>	Beauty schools	
ldu	<u>6142</u>	Business management	
n, p	<u>6142</u> 6143	Computer training	
Itioi	<u>6143</u> 6144	Driving education	<u>⊻</u>
uca	$\frac{0144}{6145}$	Fine and performing arts education	Α
Ed	$\frac{6143}{6146}$	Flight training	U A
	<u>6140</u> 6147	Sports and recreation education	<u> </u>
	0147		<u>D</u>

LB	BCS		
<u>Main</u> Category	Function Code	<u>Description</u>	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
	6200	Public administration	
	<u>6210</u>	Legislative and executive functions	<u>B</u>
	6220	Judicial functions	<u>B</u> B
	<u>6221</u>	Courts	<u>B</u>
	<u>6222</u>	Correctional institutions	<u>A</u>
	<u>6300</u>	Other government functions	<u>B</u>
	<u>6310</u>	Military and national security	
	<u>6320</u>	Space research and technology	
	<u>6400</u>	Public Safety	
	<u>6410</u>	Fire and rescue	$\downarrow$
	<u>6420</u>	Police	
	<u>6430</u>	Emergency response	<u>B</u>
	<u>6500</u>	Health and human services	
	<u>6510</u>	Ambulatory or outpatient care services	<u>A</u>
	<u>6511</u>	<u>Clinics</u>	
	<u>6512</u>	Family planning and outpatient care centers	
	<u>6513</u>	Medical and diagnostic laboratories	$\perp$
	<u>6514</u>	Blood and organ banks	$\downarrow$
	<u>6520</u>	Nursing, supervision, and other rehabilitative services	
	<u>6530</u>	Hospital	<u>A</u>
	<u>6560</u>	Social assistance, welfare, and charitable services	B
	<u>6561</u>	Child and youth services	
	<u>6562</u>	Child day care	
	<u>6563</u>	Community food services	
	<u>6564</u>	Emergency and relief services	
	<u>6565</u>	Other family services	$\overline{\downarrow}$
	6566	Services for elderly and disabled	
	6567	Veterans affairs	<u>B</u>
	6568	Vocational rehabilitation	A
	6600	Religious institutions	A
	6700	Death care services	B
	<u>6710</u>	Funeral homes and services	
	6720	Cremation services and cemeteries	
	<u>6800</u>	Associations, nonprofit organizations, etc.	
	<u>6810</u>	Labor and political organizations	

LBCS			
<u>Main</u> Category	<u>Function</u> <u>Code</u>	<b>Description</b>	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
	<u>6820</u>	Business associations and professional membership	$\overline{\uparrow}$
	(020	organizations	D
	<u>6830</u>	Civic, social, and fraternal organizations	<u>B</u>
	<u>7000</u>	Construction-related businesses	
	7100	Building, developing, and general contracting	<u>B</u>
	<u>7110</u>	Residential construction	
	<u>7120</u>	Land development and subdivision	
	<u>7130</u>	Industrial, commercial and institutional building construction	<u> </u>
	7200	Machinery related	<u> </u>
	<u>7210</u>	Building equipment and machinery installation contractors	
	7220	Excavation contractor	$\perp$
S	7230	Water well drilling contractor	$\perp$
sse	7240	Wrecking and demolition establishment	$\perp$
sine	7250	Structural steel erection contractor	$\perp$
Construction-related businesses	<u>7300</u>	Special trade contractor	
ted	7310	Carpentry, floor, and tile contractor	
rela	7320	Concrete contractor	<u> </u>
I-UC	7330	Electrical contractor	<u> </u>
Ictio	7340	Glass and glazing contractor	-
stru	7350	Masonry and drywall contractors	Ť
Jon	7360	Painting and wall covering	$\downarrow$
	7370	Plumbing, heating, and air-conditioning	<u>~</u>
	7380	Roofing, siding, and sheet metal contractors	<u>B</u>
	7400	Heavy construction	C
	7410	Highway and street construction;	
	7420	Bridge and tunnel construction	
	7430	Water, sewer, and pipeline construction	$\downarrow$
	7440	Power lines, communication and transmission lines	_
	7450	Industrial and other nonbuilding construction	<u>C</u>
	<u>⊨∣8000</u>	Mining and extraction establishments	<u>C</u>
on	8100	<u>Oil and natural gas</u>	ž
ng : acti	8200	Metals (iron, copper, etc.)	
Mining and extraction	$     \frac{8000}{8100}     \frac{8100}{8200}     \frac{8200}{8300}     8400 $	<u>Coal</u>	$\downarrow$
	8400	Nonmetallic mining	<u>·</u>

LI	BCS		
<u>Main</u> Category	Function Code	<u>Description</u>	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
	8500	Quarrying and stone cutting establishment	<u>C</u>
	<u>9000</u>	Agriculture, forestry, fishing and hunting	
	<u>9100</u>	Crop production	<u>C</u>
	<u>9110</u>	Grain and oilseed	
	<u>9111</u>	Wheat	
	<u>9112</u>	Corn	
	<u>9113</u>	Rice	
	<u>9114</u>	Soybean and oilseed	
	<u>9115</u>	Dry pea and bean	
	<u>9120</u>	Vegetable farming or growing services	
	<u>9130</u>	Fruits and trees	
ng	<u>9140</u>	Greenhouse, nursery, and floriculture	
inti	<u>9141</u>	Food crops grown under cover	
d hi	<u>9142</u>	Nursery and tree production	
ano	<u>9143</u>	Floriculture production	
ing	<u>9150</u>	All other crops	
fish	<u>9151</u>	<u>Tobacco crop</u>	$\perp$
Ţ,	<u>9152</u>	Cotton crop	$\perp$
esti	<u>9153</u>	Sugarcane crop	$\perp$
for	<u>9154</u>	Hay	
ture, forestry, fishing and hunting	<u>9155</u>	Peanut crop	
sult	<u>9200</u>	Support functions for agriculture	
Agricul	<u>9210</u>	Farm and farm labor management services	
A	<u>9220</u>	Spraying, dusting, and other related services	
	<u>9230</u>	<u>Crop harvesting and post harvest crop activities (including drying, siloing, etc.)</u>	
	9240	Cotton ginning, grist milling, etc.	$\perp$
	<u>9300</u>	Animal production including slaughter	
	<u>9310</u>	Cattle ranch and crops	
	<u>9311</u>	Beef cattle ranch establishments	
	9312	Cattle feedlot establishment	
	9320	Dairy cattle and milk production	
	9330	Hog and pig farm	
	<u>9340</u>	Poultry and egg production and hatcheries	

LBCS		
MainCategoryFunctionCode	<u>Description</u>	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
<u>9350</u>	Sheep and goat farming establishments	
<u>9360</u>	Fish hatcheries, fisheries, and aquaculture	$\perp$
<u>9370</u>	All other animal production	$\perp$
<u>9371</u>	Apiculture (bees, wax, and related operations)	$\perp$
<u>9372</u>	Horse and equine production	$\perp$
<u>9373</u>	Fur-bearing animal production	$\perp$
<u>9380</u>	Support functions for animal production	$\perp$
<u>9400</u>	Forestry and Logging	
<u>9410</u>	Logging	$\perp$
<u>9420</u>	Forest nurseries	$\perp$
<u>9430</u>	Support functions for forestry	
<u>9500</u>	Fishing, hunting and trapping, game preserves	
<u>9510</u>	Fishing	$\stackrel{\perp}{\underline{\downarrow}}$ <u>C</u>
<u>9520</u>	Hunting and trapping, game retreats, game and fishing	<u>C</u>
	preserves	
<u>9900</u>	Unclassifiable function	<u>U</u>
<u>9910</u>		
<u>9990</u>		$\frac{\downarrow}{\mathbf{U}}$
<u>9999</u>	To be determined	<u>U</u>

#### APPENDIX B

# STANDARD LAND USE CODING SYSTEM

Federal Highway Administration Reprinted 1969

# **B.** A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES -- TWO-, THREE-, AND FOUR-DIGIT

**LEVELS** 

						SIC	Lai
Code	Category	Code	Category	Code	Category		Cle
<u>—11 He</u>	ousehold units.	<u> </u>	schold units.	1100	Household units. <sup>2</sup>		

	Group quarters.	121	Rooming and boarding houses.	1210	Rooming and boarding houses. <sup>3</sup>	7021
		122	Membership lodgings.	1221	Fraternity and sorority houses.	4Incl. 7041
				1229	Other membership lodgings, NEC. <sup>5</sup>	Incl. 7041
		123	Residence halls or dormitories.	1231	Nurses' homes.	
				1232	College dormitories.	
				1239	Other residence halls or dormitories,	
					<del>NEC.</del>	
		124	Retirement homes and orphan-	1241	Retirement homes.	
			- ages.	1242	Orphanages.	
		125	Religious quarters.	1251	Convents.	
				1252	Monasteries.	
				1253	Rectories.	
				1259	Other religious quarters, NEC.	
		129	Other group quarters, NEC.	1290	Other group quarters, NEC.	
13 Resid	lential hotels.	130	Residential hotels.	1300	Residential hotels. <sup>6</sup>	
14 Mobi	ile home parks or courts.	140	Mobile home parks or courts.	1400	Mobile home parks or courts.	7031
<del>15 Trans</del>	sient lodgings.	151	Hotels, tourist courts, and motels.	1510	Hotels, tourist courts, and motels.	7011
			Other transient lodgings, NEC.	<u> </u>		
19 Other	r residential, NEC.	190	Other residential, NEC.		Other residential, NEC.	

FOOTNOTES	
- <sup>+</sup> The SIC codes are listed for purposes of reference. They are the	<u>"Code 1210 "Rooming and boarding houses" are</u>
those that have	
codes in the SIC system that most nearly correspond to the 4 digit	5 or more persons renting rooms, with or without board,
and not re-	
land use activity indicated. (See ch. III, Sec. A3, "The Use of Stand	lated to the had or person in charge. Where there are less
<del>than 5</del>	
and Industrial Classification Nomenclature.") A dash indicates that	roomers, the total quarters are considered as one
	"Household unit"
there is no corresponding SIC code.	and is coded 1100.
- <sup>2</sup> Code 1100 "Household units" are defined as a house, and apart	<sup>-4</sup> "Incl. 7041" is an abbreviation which indicates that the
	4 digit
ment, or other group of rooms, or a single room that is intended for	land use activity category is only one of several
categories of establish-	
occupancy as separate living quarters. Occupants of "Household	ments that are included under SIC code 7041.
units" do not live and eat with other persons in the structure (such as	"NEC" is an abbreviation for "not elsewhere coded."
in a boarding house), and there is either (1) direct access from the	<sup>6</sup> Code 1300 "Residential hotels" are those that have 75
percent or	
outside or through a common hall, or (2) there is a kitchen or cooking	more of the available accommodations occupied by
permanent guests	
equipment for the exclusive use of the occupants of the unit. The	(i.e., persons who reside more than 30 days). Hotels with
less than	
occupants may be a family, a group of unrelated persons, or a person	75 percent are included under code 15, "Transient
lodgings."	7
living alone. Mobile homes not in "Mobile home parks or courts"	<sup>2</sup> Code 1590"Other transient lodgings, NEC" includes
such estab-	
(code 14), but resting on a permanent type of foundation (e.g., a brick	lishments as the YMCA, YWCA, and YMHA when 50
percent or	
or concrete block foundation) are included as well as units that are	more of the floor area is devoted to lodging and
associated activities	
vacant or that are used on a seasonal basis. Farm homes are also in	and when less than 75 percent of the accommodations are
occupied by	

\*"Land Class" refers to Rule 201 Classifications. "A" denotes a Class A Land, "B" denotes a Class B Land and "C" denotes a Class C Land. "U" denotes a Land unclassified in rule 201. (Added by IEPA.)

<del>B-1</del>

#### B. A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES --- TWO-, THREE-, AND FOUR-DIGIT LEVELS --- Continued

Code	Category	Code	Category	Code	Category	<u>SIC</u> <u>Reference</u> <sup>+</sup>
Jour	Curegory	Cour	Currenty	Couc	Caregory	- <del>Rejerence</del> -
21	Food and kindred prod	211	Meat products manufacturing.	2111	Meat packing manufacturing.	2011
	ucts manufacturing.		1 0		- Sausages and other prepared meat	2013
	2				products manufacturing.	
				2113	Poultry and small game dressing and	2015
					— packing.	
		212	Dairy products manufacturing.	2121	- Creamery butter manufacturing.	2021
				2122	Cheese, natural and processed.	2022
				2123	Condensed and evaporated milk	2023
				-	manufacturing.	
				2124	Ice cream and frozen desserts	2024
				2121	manufacturing.	
				2125	Fluid milk processing.	2026
				2123	raid link processing.	2020
		213	Canning and preserving of fruits,	2131	Canning and curing seafoods.	2031
		210	vegetables, and seafoods.	2131	Canning specialty foods.	<u>2031</u>
			· egetables, and searoods.		Canning fruits, vegetables, preserves,	<u>2032</u>
				2155	jams, and jellies.	2055
				2134	Drying and dehydrating fruits and	2034
				2154	- brying and denyarating mutts and	2034
				2135	Pickling fruits and vegetables; vege	2035
				2155	table sauces and seasonings; salad	2055
					dressings manufacturing.	
				2126	Fresh or frozen packaged fish and	2036
				2130	- Fresh of frozen packaged fish and	2030
				2137	Frozen fruits, fruit juices, vegetables,	2037
				2157	and specialities.	2037
		214	Grain mill products manufactur	2141	-Flour and other grain mill products.	2041
			ing.		Preparing feeds for animals and fowls.	2042
			5	2143	Cereal preparations.	<u>2043</u>
					Rice milling.	2044
					Blending and preparing flour.	<u>2045</u>
					Wet corn milling.	<u>2015</u>
					er er	
		215	Bakery products manufacturing.	2150	Bakery products manufacturing.	205
		216	Sugar manufacturing.	2160	Sugar manufacturing.	206
		217	Confectionery and related prod	2171	Candy and other confectionery prod	2071
			ucts manufacturing.		- ucts manufacturing.	

	2172	Chocolate and cocoa products	2072
	2172	— Chocolate and cocoa products — manufacturing.	2012
	2173		2072
		Chewing gum manufacturing.	2073
218 Beverage manufacturing.	2181	Malt liquors manufacturing.	2082
	2182	Maltmanufacturing.	2083
	2183	Wine, brandy, and brandy spirits	2084
		manufacturing.	
	2184	Distilling, rectifying, and blending	2085
		liquors.	
	2185	Bottling and canning soft drinks and	2086
		<u>— carbonated waters.</u>	
	2186	Flavor extracts and flavoring sirups	2087
		manufacturing, NEC.	
219 Other food preparations and kin	2191	Cottonseed oil milling.	2091
dred products manufacturing,	2192	Soybean oil milling.	2092
NEC.	2193	Vegetable oil milling (except cotton-	2093
	2194	Animal and marine fats and oils (in	2094
		facturing.	
	2195	-	2095
		manufacturing.	
	2196	•	2096
		and other edible fats and oils	
		manufacturing.	
	2197		2097
	21)/	ice manufacturing	2077
	2198	Macaroni, spaghetti, vermicelli, and	2098
		noodles manufacturing.	
	2199	Other food preparations and kindred	2099
		products manufacturing, NEC.	

#### <del>B 2</del>

#### B. A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES -- TWO-, THREE-, AND FOUR-DIGIT LEVELS -- Continued

Code	Category	Code	Category	Code	Category	SIC La Reference <sup>4</sup> Cl
22	Textile mill products manu facturing.		Broad and narrow woven fabrics and other small wares (cotton, manmade fibers, silk, and wool) manufacturing.	2210	Broad and narrow woven fabrics and other small wares (cotton, manmade fibers, silk, and wool) manufacturing.	<u>221,222,223<sup>9</sup></u> and 224
		222	Knit goods manufacturing.	2220	Knit goods manufacturing.	225
		223	Dyeing and finishing of textiles (except wool fabrics and knit goods.	2230	Dyeing and finishing of textiles (ex cept wool fabrics and knit goods).	226
		-224	Floor coverings (rugs and carpets) manufacturing.	2240	Floor coverings (rugs and carpets) manufacturing.	227
		225	Yarns and threads manufacturing.	2250	Yarns and threads manufacturing.	228
		229	Other textile goods manufacturing,	2291	Felt goods (except woven felts and	2291

36

		NEC.		hats) manufacturing.	
			2292	Lace Goods manufacturing.	2292
			2293	Padding and upholstery filling	2293
				manufacturing.	
			2294	Processing waste and recovering fibers	2294
				and flock.	
			2295	Artificial leather and oil cloth manu	2295
				facturing and other impregnating and	
			2296	Tire cording and fabric manufacturing.	2296
			2297		2297
				towing to top.	
			2200	Other textile goods manufacturing,	2299
			22))	<u>— NEC.</u>	22))
				11201	
	231	Men's, youths' and boys' suits,	2310	Men's, youth's, and boys' suits, coats,	231
products made from fab		coats, and overcoats manufac		and overcoats manufacturing.	
rics, leather, and similar					
materials manufacturing.					
	232	Men's, youths', and boys' furnish	2320	Men's, youths', and boys' furnishings,	232
		ings, work clothing, and allied		work clothing, and allied garments	
		garments manufacturing.		manufacturing.	
	233	Women's, misses', juniors', girls',	2330	Women's, misses', juniors', girls',	<u>233 and</u>
		children's, and infants' outerwear		children's, and infants' outerwear	236
		manufacturing.		manufacturing.	
	234	Women's, misses', children's, and	2340	Women's, misses', children's, and	234
	234	infants' undergarmentsmanufact-	2340	infants' undergarments	234
manufacturing.		manto antorgamento manarati		initiants' undergannents	
6					
	235	Hats, caps, and millinery manu	2350	Hats, caps, and millinery manufac	235
		facturing.		turing.	
	236	Leather and leather products		Leather tanning and finishing.	3111
		manufacturing.	2362	Industrial leather belting and packing	3121
				manufacturing.	
			2363	Boot and shoe cut stock and findings	3131
				manufacturing.	
			2364	Footwear (except rubber)	
manufacturing.	314				
			2365	<ul> <li>Leather gloves and mittens</li> </ul>	
manufacturing.	315			-	
				Luggage manufacturing.	<u></u>
			2367	Handbags and other personal leather	317
			<u>.</u>	goodsmanufacturing.	
			2369	1 25	319
				— <del>NEC.</del>	
	a				·
	237		2370	Fur goods manufacturing.	237

B-3 B.— A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES -- TWO-, THREE-, AND FOUR-DIGIT

### **LEVELS** -- Continued

Code	Category	Code	Category	Code	Category	
-23	Apparel and other finished	238	Miscellaneous apparel and acces	2381	Dress and work gloves (except knit	2381
-pre	oducts made from fab		sories manufacturing.		and all leather) manufacturing.	
-ric	s, leather, and similar			2382	Robes and dressing gowns manu	2384
	materials manufacturing				facturing.	
	Continued			2383	Raincoats and other waterproof outer	2385
					garmentsmanufacturing.	
				2384	Leather and sheep lined clothing	2386
					manufacturing.	
				2385	Apparel belts manufacturing.	2387
				2389		2389
				2369	cessory manufacturing, NEC.	
		220		2201		2201
		239	Other fabricated textile products	2391	Curtains and draperies manufac	2391
			manufacturing, NEC.		turing.	2205
				2392	House furnishings (except curtains	<del>2392</del>
					and draperies) manufacturing.	
				2393	Textile bags manufacturing.	2393
				2394	Canvas productsmanufacturing.	2394
				2395	Pleating, decorative and novelty	<del>2395</del>
					stitching and tucking for the trade.	
				2396	Apparel findings and related prod	2396
					ucts manufacturing.	
				2399	Other fabricated textile products	
					manufacturing, NEC.	<u>2399</u>
						/
Lumbe	er and wood prod	241	Logging camps and logging con	2410	Logging camps and logging contrac	
	ucts (except furniture)		tractors.		tors.	
	- manufacturing.					
		242	Sawmills and planing mills.	2421	Sawmills and planing mills, general.	2421
				2422	Hardwood dimension and flooring	2426
					manufacturing.	
				2429	Special sawmill products manufac	2429
					turing, NEC.	
		243	Millwork, veneer, plywood, and	2431	Millwork.	2431
			prefabricated structural wood	2432	Veneer and plywoodmanufactur-	<u>2432</u>
			products manufacturing.	2102	ing.	
			products manufacturing.	2422	Prefabricating wooden buildings and	2433
				2433	structural members manufacturing.	2433
		244	Wooden container	2440	Wooden containen	244
		244	Wooden containers manufactur ing.		Wooden containers manufacturing.	
		o 1-		<b>a</b> 1 = 1	<b>TT</b> 7 1 ·	0.404
			Other lumber and wood products.	2491	Wood preserving.	<u></u>
		249	(except furniture) manufactur	<u>2491</u> 2499	Other lumber and wood products	<u>2491</u> 2499
		249			Other lumber and wood products (except furniture) manufacturing,	
		249	(except furniture) manufactur		Other lumber and wood products	
Furniti	ure and fixtures	<u>249</u> 251	(except furniture) manufactur		Other lumber and wood products (except furniture) manufacturing,	
Furnit	ure and fixtures manufacturing.		except furniture) manufactur ing, NEC.	2499	Other lumber and wood products (except furniture) manufacturing, NEC.	<u></u>
Furnit		251	<u>(except furniture) manufactur</u> ing, NEC. Household furniture manufactur ing.	<u>2499</u> 	Other lumber and wood products (except furniture) manufacturing, NEC. Household furniture manufacturing.	<u>2499</u> <u>251</u>
Furnit			<u>(except furniture) manufactur</u> ing, NEC. Household furniture manufactur	2499	Other lumber and wood products (except furniture) manufacturing, NEC.	<u></u>

		niture manufacturing.		ture manufacturing.	
	254	Partitions, shelving, lockers, and office and store fixtures manu facturing.	2540	Partitions, shelving, lockers, and office and store fixtures manu- facturing.	
	259	Other furniture and fixtures manu facturing, NEC.	<u>2591</u> 2599	Venetian blinds and shades manu facturing. Other furniture and fixtures manu facturing, NEC.	<u>2591</u> 2599
26 Paper and allied products	261	Pulpmanufacturing.	2610	Pulpmanufacturing.	261
	262	Paper (except building paper) manufacturing.	2620	Paper (except building paper) — manufacturing.	262

### <del>B 4</del>

Code -	Category	Code	Category	Code	Category	
	~ -		~ .		· ·	-
26	Paper and allied products manufacturing Continued	<del>263</del>	Paperboard manufacturing.	<del>2630</del>	Paperboard manufacturing.	263
	-	264	Converted paper and paperboard	2641	Paper coating and glazing.	<u> </u>
			products (except containers and	2642	Envelope manufacturing.	2642
			boxes) manufacturing.	2643	Bags (except textile bags) manu facturing.	<u>         2643 </u>
				2644	Wallpaper manufacturing.	<del>2644</del>
				2645	Die cut paper and paperboard; and cardboard manufacturing.	<u>     2645 </u>
				2646	Pressed and molded pulp goods manufacturing.	<u> </u>
				2647	Sanitary paper products manufac	<u> </u>
				2649	Other converted paper and paper- board products (except containers and boxes) manufacturing, NEC.	<u>2649</u>
		265	Paperboard containers and boxes	<del>2650</del>	Paperboard containers and boxes	<u></u>
		266	Building paper and building board manufacturing.	<del>2660</del>	Building paper and building board manufacturing.	<del></del>
Printin	ng, publishing, and allied industries.	271	Newspapers: publishing, publish ing and printing.	2710	Newspapers: publishing, publishing and printing.	<u></u>
		272	Periodicals: publishing, publishing and printing.	2720	Periodicals: publishing, publishing and printing.	<u></u>
		273	Books: publishing, publishing and	2730	Books: publishing, publishing and	<u> </u>
			printing.			

		274	Commercial printing.	2740	Commercial printing.	<u> </u>
		275	Manifold business forms manu	2750	Manifold business forms manufac	<del></del>
		-215-	facturing.	- 2150	Manifold business forms manufac	<del></del>
		276	Greeting cardmanufacturing.	2760	Greeting cardmanufacturing.	277
				2771	-	- 7 . 4
		277	Bookbinding and related indus	2771	Blankbooks, looseleaf binders, and	2782
		-	tries manufacturing.		<u>devices</u> manufacturing.	2700
				2772	Booliomang and miseenaneous re	2789
		270		2701	lated work manufacturing.	2701
		278	Printing trade service industries.	2781	Typesetting.	<u>2791</u> 2702
				2782	Photoengraving.	<u></u>
				2783	Electrotyping and stereotyping.	<u></u>
				2789	1 0	2799
		270		2700	tries, NEC.	~~ 1
		279	<ul> <li>Other printing and publishing, NEC.</li> </ul>	2790	Other printing and publishing, NEC.	
	and allied prod	281	Industrial inorganic and organic	2810	Industrial inorganic and organic	
ucts manu	facturing.		chemicals manufacturing.		chemicals manufacturing.	
		282	Plastics materials and synthetic		Plastics materials and synthetic	
		202	resins, synthetic rubber, syn	2020	resins, synthetic rubber, synthetic	
			thetic and other manmade fibers		and other manmade fibers (except	
			except glass) manufacturing.			
			- (except glass) - manufacturing.		<u>— gluss) munuracturm</u> <sub>5</sub> .	
		283	Drug manufacturing.	2831	Biological products manufacturing.	2831
				2832	Medicinal chemicals and botanical	2833
				2833	Pharmaceutical preparationsman-	2834
					ufacturing.	
		284	Soap, detergents, and cleaning	2841	Soap and detergents (except spe	
			preparations, perfumes, cos		cialty cleaners) manufacturing.	
			metics, and other toilet prepa	2842	1 9 8,1 8,	2842
			rations manufacturing.		sanitation preparations (except	
					soap and detergents)manufac-	
				2843	Surface active agents, finishing	2843
					agents, sulfonated oils, and as-	
					sistants manufacturing.	
				2844		2844
					preparations-manufacturing.	20
			<del>B-5</del>		propulation -	
A STANDARD S	<b>YSTEM FOR IDE</b>	NTIFYF		VITIES -	TWO-, THREE-, AND FOUR-DIGIT	
	-		LEVELS Continued		- · · · , , ,	
						SIC
Code Ca	tegory	Code	Category	Code	Category	Reference <sup>1</sup>
- <i>oue</i>	<del>8801 y</del>	<del>-cou</del> i	Curegory	<del></del>	Cureçory	- <del>Rejere</del> nce
	and allied prod	285	Paints, varnishes, lacquers, en	2850	· · · · ·	285
ucts manu	-		amels, and allied products		and allied products manufacturing.	
			manufacturing.			
Continued.		286	Gum and wood chemicals manu	2860	Gum and wood chemicals manufac	<del>286</del>
Continued			Gum and wood chemicars manu	2000		
Continued			facturing		turing	
Continued			facturing.			
Continued		287	facturing. Agricultural chemicals manufac	2870		<u></u>

	200		2001		0001
	289	Other chemicals and allied prod     ucts manufacturing, NEC.	2891 2892	Glue and gelatin manufacturing. Explosives manufacturing.	<u>2891</u> 2892
		ucts manufacturing, NEC.	2892	Printing ink manufacturing.	<u>- 2892</u> - 2893
				Carbon black manufacturing.	<u></u>
			2899	Other chemicals and allied products	2899
				manufacturing, NEC.	
29 Petroleum refining and re lated industries.	291	Petroleum refining.	2910	Petroleum refining.	<del>291</del>
	292	Paving and roofing materials	2921	Paving mixtures and blocks manu	2951
		manufacturing.			
			2922	Asphalt felts and coatingsmanu-	2952
				facturing.	
	200		2001		2002
	299	Other petroleum refining and re	2991	Lubricating oils and greases manu	2992
	-	lated industries, NEC.		facturing.	
			2999	Other petroleum and coal products	2999
Rubber and miscellaneous	311	Tires and inner tubes manufac	3110	Tires and inner tubes manufactur	<del>- 301</del>
	- 311		3110		- 301
plastic products manu facturing.		turing.		— ing.	
incluring.	312	Rubber footwear manufacturing.	3120	Rubber footwear manufacturing.	302
	012	naboor rootwear manaraetaring.	0120	national manatactaring.	202
	313	Reclaiming rubber.	3130	Reclaiming rubber.	303
	314	Miscellaneous plastic products	3140	Miscellaneous plastic products	307
		manufacturing.		manufacturing.	
	210		2100		201
	319	Other fabricated rubber products	3190	Other fabricated rubber products	<del>306</del>
		manufacturing, NEC.		manufacturing, NEC.	
- 32 Stone, clay, and glass prod	321	Flat glass manufacturing.	3210	Flat glass manufacturing.	<del>3211 an</del>
ucts manufacturing.	521	Flat glass manufacturing.	5210	That glass manufacturing.	
uets manufacturing.					iner. 52.
	322	Glass and glassware (pressed or	3221	Glass containersmanufacturing.	<u>3221 an</u>
		blown) manufacturing.			
			3229	Other glass and glassware (pressed	<u>3229 an</u>
			3449		<del>- 3229 an</del>
			3229		<u>- 3229 an</u> 
			3229	or blown) manufacturing, NEC.	
	323	Cement (hydraulic) manufactur			
	323	Cement (hydraulic) manufactur ing.		or blown) manufacturing, NEC.	
		ing.	3230	or blown) manufacturing, NEC.	<u>incl. 32</u>
	<del>323</del> 324			or blown) manufacturing, NEC. Cement (hydraulic) manufacturing. Brick and structural clay tile manu	
		ing.	<u> </u>	or blown) manufacturing, NEC. Cement (hydraulic) manufacturing. Brick and structural clay tile manu facturing.	<u>inel. 32</u> <u>324</u> <u>3251</u>
			3230	or blown) manufacturing, NEC. - Cement (hydraulic) manufacturing. - Brick and structural clay tile manu - facturing. - Ceramic wall and floor tile manu	<u>incl. 32</u>
			<u>3230</u> <u>3241</u> <u>3242</u>	or blown) manufacturing, NEC. - Cement (hydraulic) - manufacturing. - Brick and structural clay tile - manu - facturing. - Ceramic wall and floor tile - manu - facturing.	incl. 32 
			3230 3241 3242 3243	or blown) manufacturing, NEC. - Cement (hydraulic) - manufacturing. - Brick and structural clay tile - manu - facturing. - Ceramic wall and floor tile - manu - facturing. - Clay refractories - manufacturing.	<u>incl. 32</u> <u>324</u> <u>3251</u> <u>3253</u> <u>3255</u>
			<u>3230</u> <u>3241</u> <u>3242</u>	or blown) manufacturing, NEC. Cement (hydraulic) manufacturing. Brick and structural clay tile manu facturing. Ceramic wall and floor tile manu facturing. Clay refractoriesmanufacturing. Other structural clay products manu	incl. 32 
			3230 3241 3242 3243	or blown) manufacturing, NEC. - Cement (hydraulic) - manufacturing. - Brick and structural clay tile - manu - facturing. - Ceramic wall and floor tile - manu - facturing. - Clay refractories - manufacturing.	<u>incl. 32</u> <u>324</u> <u>3251</u> <u>3253</u> <u>3255</u>
	324	<u></u>	3230 3241 3242 3243 3243 3249	or blown) manufacturing, NEC. Cement (hydraulic) manufacturing. Brick and structural clay tile manu facturing. Ceramic wall and floor tile manu facturing. Clay refractories-manufacturing. Other structural clay products manu facturing, NEC.	incl. 32 324 3251 3253 3255 3259
		ing.     Structural clay products manu     facturing.     Pottery and related products	3230 3241 3242 3243	or blown) manufacturing, NEC. Cement (hydraulic) manufacturing. Brick and structural clay tile manu facturing. Ceramic wall and floor tile manu facturing. Clay refractories-manufacturing. Other structural clay products manu facturing, NEC. Vitreous china plumbing fixtures,	<u>incl. 32</u> <u>324</u> <u>3251</u> <u>3253</u> <u>3255</u>
	324	<u></u>	3230 3241 3242 3243 3243 3249	or blown) manufacturing, NEC. Cement (hydraulic) manufacturing. Brick and structural clay tile manu facturing. Ceramic wall and floor tile manu facturing. Clay refractories-manufacturing. Other structural clay products manu facturing, NEC. Vitreous china plumbing fixtures, china, earthenware fittings, and	
	324	ing.     Structural clay products manu     facturing.     Pottery and related products	3230 3241 3242 3243 3243 3249 3251	or blown) manufacturing, NEC. Cement (hydraulic) manufacturing. Brick and structural clay tile manu facturing. Ceramic wall and floor tile manu facturing. Clay refractories-manufacturing. Other structural clay products manu facturing, NEC. Vitreous china plumbing fixtures, china, earthenware fittings, and bathroom accessories-manufacturing.	incl. 32 324 3251 3253 3255 3259 3261
	324	ing.     Structural clay products manu     facturing.     Pottery and related products	3230 3241 3242 3243 3243 3249	or blown) manufacturing, NEC. Cement (hydraulic) manufacturing. Brick and structural clay tile manu facturing. Ceramic wall and floor tile manu facturing. Clay refractories manufacturing. Other structural clay products manu facturing, NEC. Vitreous china plumbing fixtures, china, earthenware fittings, and bathroom accessories manufacturing. Vitreous china table and kitchen	incl. 32 324 3251 3253 3255 3259
	324	ing.     Structural clay products manu     facturing.     Pottery and related products	3230 3241 3242 3243 3243 3249 3251 3251	or blown) manufacturing, NEC. Cement (hydraulic) manufacturing. Brick and structural clay tile manu facturing. Ceramic wall and floor tile manu facturing. Clay refractories manufacturing. Other structural clay products manu facturing, NEC. Vitreous china plumbing fixtures, china, earthenware fittings, and bathroom accessories manufacturing. Vitreous china table and kitchen articles manufacturing.	incl. 32 
	324	ing.     Structural clay products manu     facturing.     Pottery and related products	3230 3241 3242 3243 3243 3249 3251	or blown) manufacturing, NEC. Cement (hydraulic) manufacturing. Brick and structural clay tile manu facturing. Ceramic wall and floor tile manu facturing. Clay refractories manufacturing. Other structural clay products manu facturing, NEC. Vitreous china plumbing fixtures, china, earthenware fittings, and bathroom accessories manufacturing. Vitreous china table and kitchen articles manufacturing. Fine earthenware (whiteware) table	
	324	ing.     Structural clay products manu     facturing.     Pottery and related products	3230 3241 3242 3243 3243 3249 3251 3251	or blown) manufacturing, NEC. Cement (hydraulic) manufacturing. Brick and structural clay tile manu facturing. Ceramic wall and floor tile manu facturing. Clay refractories manufacturing. Other structural clay products manu facturing, NEC. Vitreous china plumbing fixtures, china, earthenware fittings, and bathroom accessories manufacturing. Vitreous china table and kitchen articles manufacturing.	incl. 32 324 3251 3253 3255 3259 3261 3262

# 3259 Other pottery and related products

3269

manufacturing, NEC.

<del>B-6</del>

<i>a</i> .		<i>a</i> .		<i>a</i> :		
Code	Category	Code	Category		Category	
32	Stone, clay, and glass prod	326	Concrete, gypsum, and plaster	3261	Concrete brick and block manu	3271
	ucts manufacturing		products manufacturing.			
	Continued.		1 0	3262	Concrete products (excluding brick	3272
					and block) manufacturing.	
				3263	Concrete (ready mixed) manufac	3273
					turing.	
				3264	Lime products manufacturing.	3274
				3265	Gypsum products manufacturing.	3275
		327	Cut stone and stone products	3270	Cut stone and stone products manu	<del>328</del>
			manufacturing.		facturing.	
		328	Abrasive, asbestos, and miscella	3280	Abrasive, asbestos, and miscella	329
			neous nonmetallic mineral prod		neous nonmetallic mineral prod-	
			ucts manufacturing.		ucts manufacturing.	
Prima	ry metal industries.	331	Blast furnaces, steel works, and	3311	Blast furnaces (including coke ovens),	<del>3312</del>
	•		the rolling and finishing of fer-		steel works, and the rolling of fer-	
			rous metals.		- rous metals.	
				3312	Electrometallurgical products man	3313
					ufacturing.	
				3313	Steel wire drawing and steel nails	3315
					and spikes manufacturing.	
				3314	Cold rolled sheet, strip, and bars	3316
				3315	Steel pipe and tubes manufacturing.	3317
		332	Iron and steel foundries.	3320	Iron and steel foundries.	<del>332</del>
		333	Primary smelting and refining of	3331	Primary smelting and refining of	3331
			nonferrous metals.			
				3332	Primary smelting and refining of — lead.	3332
				3333	Primary smelting and refining of	3333
				2300		2220
				3334	Primary production of aluminum.	3334
				3339	Other primary smelting and refining	3339
					of nonferrous metals, NEC.	
		334	Secondary smelting and refining of	3340	Secondary smelting and refining of	<del>334</del>
			nonferrous metals and alloys.		nonferrous metals and alloys.	
		335	Rolling, drawing, and extruding of	3351	-Rolling drawing, and extruding of	<del>3351</del>
			nonferrous metals.		- copper.	
				3352	Rolling, drawing, and extruding of	3352
					aluminum.	
				3353	Rolling, drawing, and extruding of	<del>3356</del>
					nonferrous metals (except copper	

				<ul> <li>and aluminum).</li> <li>Drawing and insulating of nonferrous</li> <li>wire.</li> </ul>	<del>3357</del>
		Nonferrous foundries.	3360	Nonferrous foundries.	<del>- 336</del>
	339	Other primary metal industries, NEC.	3390	Other primary metal industries, NEC.	<del>339</del>
34 Fabricated metal prod	341	Ordinance and accessories.	3411	Guns, howitzers, mortars, and re	<del></del>
ucts manufacturing.				lated equipment manufacturing.	
			3412	Ammunition (except small arms)	<u>192</u>
				manufacturing and complete as-	
				sembling of guided missiles and	
				space vehicles.	
			3413	<ul> <li>Tanks and tank components manu facturing.</li> </ul>	<del></del>
			3414	- Sighting and fire control equipment	<u>    194</u>
			3415	Small arms manufacturing.	<u>195</u>
			3416	Small arms ammunition manufac	196
			3419	Other ordinance and accessories	199
			5.17	manufacturing, NEC.	

<del>B 7</del>

Code	Catagom	Code	Catagom	Cada	Catagory	Deference
oue	Category	Coue	Category	Coue	Category	Kejerence –
34	Fabricated metal prod	342	Machinery (except electrical) manufacturing.	3421	Engines and turbines manufactur	351
	Continued.			3422	Farm machinery and equipment     manufacturing.	<del>352</del>
				3423	Construction, mining, and materials handling machinery and equip ment manufacturing.	<del>353</del>
				3424	Metalworking machinery and equip- ment manufacturing.	<del>35</del> 4
				3425	Special industry machinery (except metalworking machinery) manu- facturing.	<del></del>
				3426	General industrial machinery and equipment	<del>356</del>
				3427	Office, computing, and accounting machines manufacturing.	357
				3428	Service industry machines manu facturing.	358
				3429	Other machinery manufacturing (except electrical), NEC.	<del>359</del>
		343	Electrical machinery, equipment, and supplies manufacturing.	3431	Electrical transmission and distribu tion equipment manufacturing.	<del></del>
				3432	Electrical industrial apparatus	<del></del>
				3433	Household appliancesmanufactur-	363

			— ing.	
		2424		264
		3434		364
		2425	ment manufacturing.	245
		3435	8	365
			(except communication types)	
			manufacturing.	
		3436		<del>- 366</del>
			facturing.	
		3437	Electronic components and acces	367
		3439		369
			ment, and supplies manufactur-	
			— ing, NEC.	
			-	
344	Transportation equipment man	3441	Motor vehicles and motor vehicle	371
-	ufacturing.		equipment manufacturing.	
		3442	Aircraft and parts manufacturing.	372
		3443	1 0	373
		3444	Railroad equipment manufacturing.	<u> </u>
		3445	Motorcycles, bicycles, and parts	375
		3443	manufacturing.	315
		2440		379
		3449	Other transportation equipment	319
			manufacturing, NEC.	
349	Other fabricated matel and dusts	2401	Metal cans manufacturing.	341
	Other fabricated metal products		•	
	manufacturing, NEC.	3492		342
			hardware manufacturing.	
		3493	Heating apparatus (except electri	343
			cal) and plumbing fixtures man-	
			ufacturing.	
		3494	Fabricated structural metal prod	344
			ucts manufacturing.	
		3495	Screw machine products and bolts,	345
			manufacturing.	
		3496	Metal stampingmanufacturing.	346
		3497		347
			<u>ices.</u>	
		3498		348
		5470	neous products) manufacturing.	540
		3499		340
		3499		349
			manufacturing, NEC.	

### <del>B-8</del>

Code	Category		Category		Category	SIC Reference <sup>‡</sup>	<u>La</u> Cl
-35	Professional, scientific, and controlling instruments: photographic and optical goods; watches and clocks manufacturing.	351	Engineering, laboratory, and sci entific and research instruments and associated equipment manufacturing.	3510	Engineering, laboratory, and scien tific and research instruments and associated equipment manufac- turing.	381	C
	5	352	Instruments for measuring, con trolling, and indicating physical characteristicsmanufacturing.	3521	Mechanical measuring and control ling instruments (except automatic temperature controls)-manufac-	3821	

turing. 3522 Automatic temperature controls 3822 manufacturing. 353 Optical instruments and lenses 3530 Optical instruments and lenses 383 manufacturing. -manufacturing. 354 Surgical, medical, and dental in 3541 Surgical and medical instruments 3841 -and apparatus manufacturing. struments and supplies manufacturing. 3542 Orthopedic, prosthetic, and surgical 3842 -appliances and supplies--manufacturing. 3543 Dental equipment and supplies 3843 manufacturing. 355 Ophthalmic goods manufactur 3550 Ophthalmic goods manufacturing. 385 ing. 356 Photographic equipment and sup 3560 Photographic equipment and sup 386 plies manufacturing. plies manufacturing. 357 Watches, clocks, clockwork oper 3570 Watches, clocks, clockwork operated 387 ated devices, and parts -- manu--devices, and parts--manufacturing. facturing. 391 Jewelry, silverware, and plated Miscellaneous manufactur 3911 Jewelry and precious metals manu-3011 30 ing, NEC. facturing. ware manufacturing. 3912 Jewelers' findings and materials 3012 -manufacturing. 3913 Lapidary work. 3913 3914 Silverware and plated ware manu 3914 facturing. 392 Musical instruments and parts 3920 Musical instruments and parts 393 manufacturing. manufacturing. 393 Toys, amusement, sporting, and 3930 Toys, amusement, sporting, and 394 athletic goods manufacturing. - athletic goods - manufacturing. 3940 Pens, pencils, and other office and 305 394 Pens, pencils, and other office artists' materials--manufacturing. and artists' materials--manufacturing. 395 Costume jewelry, costume novel 3950 Costume jewelry, costume novelties, 306 ties, buttons, and miscellaneous - buttons, and miscellaneous notions notions (except precious metals) (except precious metals) manu---manufacturing. facturing. 3961 Cigarettes manufacturing. 396 Tobacco manufacturing. 211 3962 Cigars manufacturing. 212 3963 Tobacco (chewing and smoking) and 213 snuff manufacturing. 3964 Tobacco stemming and redrying. 214

397 Motion picture production. 3970 Motion picture production. 7811

### B. A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES -- TWO-, THREE-, AND FOUR-DIGIT LEVELS -- Continued

						SIC
Code	Category	Code	Category	Code	Category	Reference <sup>4</sup>
	Miscellaneous manufactur	399	Other miscellaneous manufactur	3991	Brooms and brushes manufactur	3981
	ing, NEC Continued.		ing, NEC.		— ing.	
				3992	Linoleum, asphalted felt base, and	3982
					other hard surface floor cover	
					manufacturing, NEC.	
				3993	Matches manufacturing.	<del>3983</del>
				3994	Lamp shades manufacturing.	<del>3987</del>
				3995	Mortician's goods manufacturing.	3988
				3996	Fur dressing and dyeing	<del>3992</del>
				3997	Signs and advertising displays	3993
					manufacturing.	
				3998	Umbrellas, parasols, and canes	<u> </u>
					manufacturing.	
				3999	-	3984 and
					NEC.	3999
41 Railr	oad, rapid rail transit,	411	Railroad transportation.	4111	Railroad right-of-way (excluding	
	and street railway trans				switching and marshaling yards).	
	portation.			4112	Railroad switching and marshaling	
					<del>yards.</del>	
				4113	Railroad terminals (passenger).	
					Railroad terminals (freight).	
				4115	Railroad terminals (passenger and	
				4116	Railroad equipment and mainte	
				4119	Other railroad transportation, NEC.	
		412	Rapid rail transit and street rail-	4121	Rapid rail transit and street railway	
			way transportation.		<del>right of way.2</del>	
				4122	Rapid rail transit and street railway	
				+122	passenger terminals.3	
				4123		
				4123	equipment maintenance.	
				4129	Other rapid rail transit and street	
				4129		
					railway transportation, NEC.	
42 Moto	r vehicle transporta	421	Bus transportation.	4211	Bus passenger terminals (intercity).4	
	tion.		<u>F</u>	4212	Bus passenger terminals (local).4	
					Bus passenger terminals (intercity	
					and local).4	
				4214		
				T21-F	- nance.	
				4219	Other bus transportation, NEC.	
					· · · · · · · · · · · · · · · · · · ·	
		422	Motor freight transportation.	4221	Motor freight terminals.	
			5		<b>C</b>	

<del>B 9</del>

4222 Motor freight garaging and equip ment maintenance. 4229 Other motor freight transportation, NEC.

#### **FOOTNOTES**

-<sup>1</sup>The SIC codes are listed for purposes of reference. The are the codes in the SIC system that most nearly correspond to the 4 digit land use activity indicated. (See ch. III, Sec. A3, "The Use of Standard Industrial Classification Nomenclature.") A dash indicates that there is no corresponding SIC code.

### <del>B-10</del>

Cada	Catagom	Code	Catagom	Code	Catagom	SIC Reference <sup>4</sup>	
<del>.oac</del>	Category	Coae	Category	Coae	Category	<u> </u>	
42	Motor vehicle transporta-	429	Other motor vehicle transporta-	4291	Taxicab transportation.	4121	
	tion Continued		tion, NEC.	4299	Other motor vehicle transportation,		
					— <del>NEC.</del>		
-43	Aircraft transportation.	431	Airports and flying fields.	4311	Airport and flying field landing/		
					takeoff fields.		
				4312	Airport and flying field terminals		
					<del>(passenger).</del>		
				4313	Airport and flying field terminals		
					<u>(freight).</u>		
				4314	Airport and flying field terminals		
					- (passenger and freight).		
				4315	Aircraft storage and equipment		
					maintenance.		
				4319	Other airports and flying fields,		
					— <del>NEC.</del>		
		439	Other aircraft transportation,	4391	Heliport landing/takeoff pads.5		
			NEC.	4399	Other aircraft transportation, NEC.		
44	Marine craft transporta	441	Marine terminals.7	4411	Marine terminals (passenger).8		
	tion.8			4412	Marine terminals (freight).		
				4413	Marine terminals (passenger and		
					freight).		
				4414	Marine terminals (commercial fish		
					— ing).		

			4419	Other marine terminals, NEC.
	449	Other marine craft transportation,	4490	Other marine craft transportation,
		NEC.		— NEC.
		NEC.		nee.
15 Highway and street right of way.	451	Freeways.	4510	Freeways.9
5 mg	452	Expressways.	4520	Expressways.10
	453	Parkways.		Parkways.11
	454	Arterial streets.	4540	Arterial streets.12
	455	Collector/distributor streets.	4550	Collector/distributor streets.13
	456	Local access streets.	4560	Local access streets.14
	450	Alleys.		Alleys.15
	459	Other highway and street right-of-		Other highway and street right-of-
		way, NEC.		way, NEC.
		·····		<i>(14)</i> , 1,20.
16 Automobile parking.	460	Automobile parking.		Automobile parking.16
· · ·		* -		1 0
17 Communication.	471	Telephone communication.	4711	Telephone exchange stations.
• • • ·		r	4712	
			4719	Other telephone communication,
				— <del>NEC.</del>
	472	Telegraph communication.	4721	Telegraph message centers.
		0I	4722	Telegraph transmitting and receiv
				ing stations (only).
			4729	
				— NEC.
	473	Radio communication.	4731	Radio broadcasting studios (only).
			4732	
				— towers.
			4739	Other radio communication, NEC.
	474	Television communication.	4741	Television broadcasting studios (only).
			4742	
				relay towers.
			4749	
			<u> </u>	— NEC.
	475	Radio and television communica	4751	Radio and television broadcasting
		tion (combined systems).		studios, only (combined systems).
		· -	4759	Other combined radio and television
				communication, NEC.
	479	Other communication, NEC.	4790	Other communication. NEC.

### <u>B-11</u>

	Category	Code	Category	Code	Category	SIC Reference <sup>‡</sup>	<u>La</u> Cle
<u>48 Util</u>	lities	481 Elec	etric utility.	4811 4812 4813	Electric transmission right of way.17 Electric generation plants. Electricity regulating substations.		4

			4819	Other electric utility, NEC.	
	482	Gas utility.	4921	Cas night of year 17	
	482	Gas utility.	4821 4822	Gas pipeline right of way. <b>17</b>	
				Gas production plants.	
			4823	- Natural or manufactured gas storage	
			1001	and distribution points.	
			4824	- I	
			4829	Other gas utilities, NEC.	
	483	Water utilities and irrigation.		Water pipeline right of way.17	
			4832	Water treatment plants (purifica	
				tion).	
			4833	Water storage.18	·
			4834	Irrigation distribution channels.	·
			4835	Water pressure control stations.	
			4839	Other water utilities and irrigation,	
				<del>NEC.</del>	
	484	Sewage disposal.	4841	Sewage treatment plants.	
		•	4842	-Sewage sludge drying beds.	
			4843		
				Other sewage disposal, NEC.	
			1015	o lier se wige disposal, 10201	
	485	Solid waste disposal.	4851	Refuse incineration.	
	105	bond waste disposal.	4852	Central garbage grinding stations.	
				Compositing plants.	
				Sanitary landfills.	
				Refuse disposals.	
				Industrial waste disposals.	
			4857	Active slag dumps and mineral waste	
			10.50	disposals.	
			4859	Other solid waste disposal, NEC.	
	489	Other utilities, NEC.	4890	Other utilities, NEC.	
49 Other transportation, com-	491	Other pipeline right-of-way and	4911	Petroleum pipeline right-of-way.17	
munication, and utilities,	171	pressure control stations, NEC.	4912		
NEC.		pressure control stations, MEC.	4912		
NEC.			4919		
				sure control stations, NEC.	
	492	Transportation services and ar	4921	Freight forwarding services.	4041 and
		rangements.			4712
			4922	Packing and crating services.	4783
			4923	Travel arranging services.	472
			4924	Transportation ticket services. 18	
			4929	Other transportation services and	
				arrangements, NEC.	
	499	Other transportation, communica	4900	Other transportation, communica	
		tion, and utilities, NEC.		tion, and utilities, NEC.	
FOOTNOTES			<sup>5</sup> Code 439	91"Heliport landing/takeoff pads" are	
identified only					
<sup>1</sup> The SIC codes are listed for purpose	es of refer	ence. They are the wi	<del>ten thev are s</del>	eparate activities and not a part of code	
431, "Airports		· • • • • • • • • • • • • • • • • • • •	,		
codes in the SIC system that most nearly c	orrespon	d to the 4 digit	d flying field	<u>9.''</u>	
land use activity indicated. (See ch. III, Se			<sup>6</sup> Code 44	"Marine craft transportation." The	
maintenance and			2000 14	erate autoportution. The	

used by comwithin a public street right of way). Railroad right of way used by mercial passenger, freight, and fishing craft. Docking facilities that rapid rail transit is considered to be railroad right of way and is coded primarily serve recreational type of marine craft are identified under 4111. \*Code 4411 "Marine terminals (passenger)" <sup>2</sup>Code 4122 "Rapid rail transit and street railway passenger ter include ferry terminals ---<sup>9</sup>Code 4510 -- "Freeways" are divided highways for minals" identifies only those terminals that are not located within through traffic public right of way (e.g., within a public street right of way). with full control of access and no cross traffic at grade. ---<sup>4</sup>Codes 4211, 4212, 4213--"Bus passenger terminals" identifies only ----<sup>40</sup>Code 4520--"Expressways" are divided highways for through those terminals that are not located on the public right of way (e.g., traffic with full or partial control of access with grade separations at within a public street right of way). major crossroads.

### <u>B-12</u> B. A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES -- TWO-, THREE , AND FOUR DIGIT LEVELS -- Continued

Footnotes continued on following page.

<sup>44</sup> Code 4530 "Parkways" are highways for noncommercial traffic,	17 parking spaces), and that serves no other single type of activity.
with full or partial control of access. They are located within a park	This code includes parking on open lots, parking within
parking struc-	
	arking within structures that also house other activities (e.g.,
	parking area in an office building), and the parking area at
shopping	
ments of traffic and are not freeways, expressways, and parkways.	centers. Parking areas of less than 5,000 square feet are not
identified	
Generally there is no control of access.	as a separate activity.
<sup>13</sup> Code 4550 "Collector/distributor streets" are those streets that	<sup>17</sup> Codes 4811, 4821, 4831, 4911 These codes
identify those areas	
collect traffic from the local streets and channel it into the arterial	where the surface is devoted exclusively to the
right-of-way of the respec-	
system. These streets also provide necessary cross-connections be-	tive activities and is used for no other purposes.
tween arterials. The collector/distributor street does not handle long	<sup>48</sup> Code 4833 "Water storage" includes
impounded surface water	
through trips, and it is not continuous for any great length.	areas or water tanks used for storage. Lakes or
other natural water	
<sup>44</sup> Code 4560 "Local access streets" are those used primarily for	formations are identified under code 93, "Water
areas."	
access to residences, businesses, or other abutting activities.	<sup>49</sup> Code 4924 "Transportation ticket services"
include the ticket	
<sup>45</sup> Code 4570 "Alleys" are minor narrow streets usually without	offices of any of the transportation systems. The
ticket offices are	
sidewalks and on which building adjoin from the rear. identified only when t	hey are a separate and distinct activity, not
<sup>46</sup> Code 4600"Automobile parking" includes nonresidential off-	located within one of the transportation terminals.
street parking that is 5,000 square feet or greater (or approximately	

						07	La
						510	Lui
<i>C</i> 1	<i>a</i> .	<i>C</i> 1	<i>a</i> .	<i>C</i> 1	Category	n c f	01
L'ada	Category	L'ada	Catagory	L'ada	L ateaony	Potoropoo	110
Cour	Curegory	Cour	Curegory	Couc	Caregory	nejerence -	$-\alpha$
					0 2		

boat building

facilities (e.g.,

		equipment wholesale.		- cles wholesale. - Automotive equipment wholesale.	<u> </u>
				Automotive equipment wholesale.	5013
			5113	Tires and tubes wholesale.	<del>5014</del>
	512	- Drugs, chemicals, and allied	5121	Drugs, drug proprietaries and drug	5022
		products wholesale.		gists' sundries wholesale.	
			5122	Paints and varnishes wholesale.	5028
			5129	Other drugs, chemicals, and allied	<u> </u>
				products, wholesale, NEC.	
	513	- Dry goods and apparel whole	5131	Dry goods, piece goods, and notions	5032
		sale.		wholesale.	
			5132	- Apparel and accessories, hosiery, and	5035
				lingerie wholesale.	
			5133	Footwear wholesale.	<del>5039</del>
	514	Groceries and related products	5141	Groceries (general line) wholesale.	<del></del>
	514	wholesale.		Dairy products wholesale.	<u>5042</u>
		wholesale.		Poultry and poultry products	<u> </u>
			5145	wholesale.	3044
			5144	Confectionery wholesale.	<del>5045</del>
				Fish and seafoodswholesale.	<u> </u>
				Meats and meat products wholesale.	
			3147	Fruits and vegetables (fresh) wholesale.	<del>5048</del>
			5140	Other groceries and related products	5049
			3149	wholesale, NEC.	
	515	Farm products (raw materials)	5151	- Cotton - wholesale.	
<u>Incl. 5051</u>				~ · · · ·	
. 1 5051		wholesale.	5152	Grain wholesale.	
<u>Incl. 5051</u>			5152	Hides, skins, and raw furs whole-	
Incl. 5051				Hides, skins, and faw furs whole-	
				—sale.	
			5154	Leaf tobacco wholesale.	
<u>Incl. 5051</u>					
			5155	Wool and mohair wholesale.	
<u>Incl. 5051</u>			5156	Livestockwholesale.	
Incl. 5051			5150	- Livestockwholesale.	
			5157	Horses and mules wholesale.	
<u>Incl. 5051</u>			5159	Other farm products wholesale,	
<u>Incl. 5051</u>			5157	other farm products wholesare,	
				— NEC.	
	516	Electrical goods wholesale.	5161	Electrical apparatus and equipment,	5063
				wiring supplies, and construction	
				materials wholesale.	
			5162	Electrical appliances, television, and	5064
			2102		2001
			5163	Electronic parts and equipment	5065
			5105	wholesale.	2005
				wholesale.	
	E17	Hardman charling 1 at	2171		5070
	517	Hardware, plumbing, heating equipment, and supplies		Hardware wholesale. Plumbing and heating equipment	<u></u>

# 51

# 5173 Air conditioning, refrigerated equip

5077

ment, and supplies wholesale.

<del>B-13</del>

Tode	Category	Code	Category	Code	Category	
	~ -		~ ·		<b>~</b> -	v
51—	Wholesale trade 2	518	Machinery, equipment, and	5181	Commercial and industrial machin	5082
<u> </u>	Continued		supplies wholesale.		— ery, equipment, and supplies — — wholesale.	
<u> </u>				5182	Farm machinery and equipment     wholesale.	<del></del>
				5183	Professional equipment and sup     plies wholesale.	<del>5086</del>
				5184	-	<del></del>
				5185		<del></del>
				5189		<del></del>
		519	Other wholesale trade, NEC.	<u> </u>	Metals and minerals (except petro leum products and scrap)-whole- sale.	<del></del>
<u> </u>				5192		<del></del>
<u> </u>				<u> </u>	Scrap and waste materials whole	<del></del>
<u> </u>				5194	Tobacco and tobacco products	<del></del>
				5195	Beer, wine, and distilled alcoholic beverages wholesale.	<del>5095</del>
<u> </u>				5196	Paper and paper products whole	<del></del>
<u> </u>				5197		<u> </u>
<u> </u>				5198	Lumber and construction materials wholesale.	<del></del>
				5199	Other wholesale trade, NEC.	<del></del>
52	Retail tradebuilding ma	521	Lumber and other building ma- terials retail.		Lumber years-retail Building materials retail.	<u> </u>
	farm equipment.	<u>522</u>	Heating and plumbing equip ment retail.		Heating and plumbing equipment	<u> </u>
		523	Paint, glass, and wallpaper	<u> </u>	Paint, glass, and wallpaper-retail.	<u> </u>
		524	Electrical supplies retail.	<del>5240</del>	Electrical supplies retail.	<u> </u>
		525	Hardware and farm equip	5251	Hardware retail	<u> </u>
			mentretail.	5252	Farm equipment retail.	5252

-53	Retail trade general mer 	531	Department stores retail.	5310	Department stores retail.	<del></del>
		532	Mail order houses retail.	5320	Mail order houses retail.	<del></del>
		533	Limited price variety stores	5330	Limited price variety storesretail.	<u> </u>
		534	Merchandise vending machine operators retail.	5340	Merchandise vending machine op erators retail.	<del>53</del> 4
			Direct selling organizations - retail.	<del></del>	Direct selling organizations-retail.	<u> </u>
		539	Other retail trade general merchandise, NEC.	5391	Dry goods and general merchan dise retail.	<del></del>
				5392	General stores retail.	<del>5393</del>
-54	Retail trade food.	541	Groceries (with or without meat) retail	5410	Groceries (with or without meat) retail.	541
		542	Meats and fish retail.	5421	Meats retail.	5422
				5422	Fish and seafoods retail.	5423

<del>B-14</del>

Cada	Catagom	Code	Catagom	Code	Catagon	SIC Reference <sup>4</sup>	-L -C
Code	Category	Coae	Category	Coae	Category	<u> </u>	-(
-54	Retail trade-food		Fruits and vegetablesretail.		Fruits and vegetables-retail.		
		544	Candy, nut, and confectionery retail.	5440	Candy, nut, and confectionery retail.		
		545	Dairy products retail.	5450	Dairy products retail.	<del></del>	
		<del>546</del>	Bakeries retail.	<u> </u>	Bakeries (manufacturing) retail.3 Bakeries (nonmanufacturing) re tail.4	<u></u>	
			Other retail trade food, NEC.	<u> </u>	Egg and poultry retail. Other retail trade-food, NEC.	<u> </u>	
-55	Retail trade automotive, marine craft, aircraft,		Motor vehicles retail.		- Motor vehicles (new and used cars)	<del></del>	
	and accessories.			5512	Motor vehicles (used cars only) retail.	<del>552</del>	
		<del></del>	Tires, batteries, and acces sories retail.	5520	Tires, batteries, and accessories retail.	<u>553</u>	
		553	Gasoline service stations.	5530	Gasoline service stations.		
		559	Other retail tradeautomotive,	5591	Marine craft and accessoriesretail	Incl. 5599	

		marine craft, aircraft, and	5592	Aircraft and accessories retail.	Incl. 5599
		accessories, NEC.	5599		Incl. 5599
				<ul> <li>marine craft, aircraft, and acces- sories, NEC.</li> </ul>	
Retail tradeapparel and	561	Men's and boys' clothing and	5610	Men's and boys' clothing and fur-	<u> </u>
accessories.		furnishings retail.		nishings retail.	
	562	Women's read to wear retail.	<del>5620_</del>	Women's ready to wear retail.	<del>- 562</del>
	563	Women's accessories and spe	5630	Women's accessories and special	<del></del>
		cialtiesretail.		tiesretail.	
	564	Children's and infants' wear		Children's and infants' wear retail.	<del></del>
		retail.			
	565	Family clothing retail.	5650	Family clothing retail.	<del></del>
	566	Shoes retail.	<del>5660_</del>	Shoes retail.	<del></del>
	<del>567</del>	Custom tailoring.	5670	Custom tailoring.	<del>567</del>
	568	Furriers and fur apparel retail.		Furriers and fur apparel retail.	<del></del>
	569	Other retail trade apparel and	5690	TI T	<del></del>
		accessories, NEC.			
7 Retail trade furniture,	571	Furniture, home furnishings, and	5711	Furniture retail.	<del>5712</del>
home furnishings, and		equipment retail.	5712	Floor coverings retail.	<del>5713</del>
equipment.			<u> </u>	Draperies, curtains, and upholstery	<u> </u>
			5714	China, glassware, and metalware	<del></del>
			<del></del>	- China, glassware, and metalware 	<del>-3/13</del>
			571 <u>0</u>	Out furnitura hama furnishinge	<u> </u>
			5719	Other furniture, home furnishings, and equipment retail, NEC.	<del></del>
		·· · · · · · · · · · · · · · · · · · ·			
	572	Household appliances retail.	5720	Household appliances retail.	<del></del>
	573	Radios, televisions, and music			<del>5732</del>
		suppliesretail.	5732	Music suppliesretail.	<u> </u>
8. Retail trade eating and	581	Eating places.		Eating places.5	<del></del>
drinking.					
	582	<ul> <li>Drinking places (alcoholic bev erages).</li> </ul>		Drinking places (alcoholic beverages).	5813
		B-15			
STANDARD SYSTEM FOR ID	ENTIFYI	ING AND CODING LAND USE ACT LEVELS Continued	IVITIES	- TWO-, THREE-, AND FOUR-DIGIT	
					SIC
ode Category	Code	Category	Code	Category	
9 Other retail trade, NEC.	591	- Drug and proprietary retail.	<u> </u>	Drug and proprietary retail.	<del></del>
the retail trade, rele.	<del>.</del> .	Drug und Proprieta		Drug und proprieta	··-
ound return trade, refer				Liquor retail.	

	593	Antiques and secondhand mer	5931	Antiques retail.	<del></del>
		chandise retail.	5932	Secondhand merchandise retail.	<u> </u>
		Book and stationery retail.	<del>5941_</del>	Books retail.	<del></del>
			5942	Stationery retail.	<u> </u>
	595	Sporting goods and bicycles	5951	Sporting goods retail.	<del></del>
		retail.	5952	Bicycles retail.	<del></del>
	506		50(1		50.60
	596	Farm and garden supplies re	<u> </u>	Hay, grains, and feeds retail.	<u></u>
		tail.		Other farm and garden supplies retail, NEC.	<del></del>
				<u>retan, NEC.</u>	
	597	Jewelry retail.	5970	Jewelry retail.	<del></del>
		Jewiny Tetun.		Jeweny Ictail.	
	598	Fuel and ice retail.	5981	Fuel and ice dealers (except fuel oil	<u> </u>
				and bottled gas dealers) retail.	
			5982		<u> </u>
			5983	Bottled gas retail.	<del></del>
	599	Other retail trade, NEC.		Florists retail.	<del></del>
			5992	Cigars and cigarettes retail.	<del></del>
			5993	Newspapers and magazines retail.	<del></del>
			5994		<del></del>
				retail.	
			5995		<del>5997</del>
				— tail.	
			5996	Optical goods retail.	<del>5998</del>
			5999		<u> </u>
				ouler lean trade, 1950.	5777
61 Finance, insurance, and	611	Banking and bank related func	6111	Banking services.	601, 602, 603,
real estate services.		tions.		C	and 604
			6112	Bank related functions.	<del></del>
	612	Credit services (other than	6121	Savings and loan associations.	612
		banks).	6122	Agricultural, business, and personal	613, 614 and 6
				credit services (including credit	
				unions).	
			6129	(	611 and 616
				<del>banks), NEC.</del>	
	613	Converter and commodity healt	6131	Security brokers, dealers, and flota	6211
		Security and commodity brok ers, dealers, exchanges, and		tion services.	0211
		services.	6132	Commodity contracts brokers and	6221
			5152	dealers services.	0221
			6133	Security and commodity exchanges	<u> </u>
			6133 6134	Security and commodity exchanges. Security and commodity allied serv-	<u></u>
				Security and commodity allied serv-	
	614	Insurance carriers, agents, brok		Security and commodity allied serv-	
	614	Insurance carriers, agents, brok ers, and services.	6134	<u>Security and commodity allied serv</u> <u>ices.</u>	<u> </u>

the premises. For example, 5122 0 is a wholesaler of paints

and var-

FOOTNOTES

nishes who has a definite storage area set aside for his

merchandise.

----<sup>4</sup>The SIC codes are listed for purposes of reference. They are the only those eodes in the SIC system that most nearly correspond to the 4 digit products sold. land use activity indicated. (See ch. 111. sec. A3, "The Use of Standard include only Industrial Classification Nomenclature.") A dash indicates that there products that is no corresponding SIC code. -----<sup>2</sup>Code 51--"Wholesale trade." A code of "0" is used in the auxiliary servine

position for those wholesalers who maintain a definite storage area on only food as well as those serving both food and alcoholic beverages.

<del>B 16</del>

						SIC	_L
Code	Category	Code	Category	Code	Category		_(
61	Finance, insurance, and real estate services	615	Real estate and related services.	6151	Real estate operators (except devel opers) and lessors.	651	
	Continued.			6152	* ·	<del>653</del>	
				6153	Title abstracting services.	<u> </u>	
				6154	<ul> <li>Real estate subdividing and develop</li> <li>ing services.</li> </ul>	<del>655</del>	
				6155	Real estate operative builders.	<u> </u>	
				6156	Combinations of real estate, insur ance, loan, and law services.	<del>661</del>	
				6159	-Other real estate and related services,		
		616	Holding and investment serv	6160	Holding and investment services.	<del>67</del>	
		619	Other finance, insurance, and real estate services, NEC.	6190	Other finance, insurance, and real estate services, NEC.		
62	Personal services.	621	Laundering, dry cleaning, and	6211	Laundering, dry cleaning, and dye	7211, 7	<del>212,</del>
			dyeing services.		ing services (except rugs).	7216	
				6212	Linen supply and industrial laundry services.	7213	
				6213	Diaper services.	7214	
				6214	Laundering and dry cleaning (self service).	7215	
				6215	-Rug cleaning and repair services.	7217	
		622	Photographic services (includ ing commercial).	6220	Photographic services (including commercial).	722	
		623	Beauty and barber services.	6231	Beauty services.	723	
				6232	Barber services.	724	

	624		6241	Funeral and crematory services.	726
		cemeteries.	6242	Cemeteries.	<u> </u>
	625	Apparel repair, alteration and	6251	Pressing, alteration, and garment re	7271
		cleaning pickup services; shoe		pair; laundry and dry cleaning	
		repair services.		pickup services (only).	
		L	6252	Fur repair and storage services.	7272
				Shoe repair, shoe shining, and hat	725
				cleaning services.	
	629	Other personal services, NEC.	6290	Other personal services, NEC.	<del>729</del>
63 Business services.	631	Advertising services.	6311	Advertising services (general).	7311
			6312	Outdoor advertising services.	7312
			6319	Other advertising services, NEC.	7319
	632	Consumer and mercantile credit	6320	Consumer and mercantile credit re	732
		reporting services, adjustment		porting services; adjustment and	
		and collection services.		collection services.	
	633	Duplicating mailing and steno	6331	Direct mail advertising services.	7331
		graphic services.	6332	Blueprinting and photocopying serv	7332
				— ice.	
			6339	Stenographic services and other	7339
				duplicating and mailing services, NEC.	
	634	Dwelling and other building	6341	Window cleaning services.	734
		services.		Disinfecting and exterminating serv	7342
				-vices.	
			6349	Other dwelling and building services,	7349
				— <del>NEC.</del>	
	635	News syndicate services.	6350	News syndicate services.	<del>735</del>
	636	Employment services.	6360	Employment services.	736

<del>B 17</del>

Code	Category	Code	Category	Code	Category	SIC Reference <sup>4</sup>	<u>La</u> Cl
-63	Business services Continued		rehousing and storage serv	6371	Farm products warehousing and storage (excluding stockyards).	4221	
				6372	Stockyards.	4731	
				6373	Refrigerated warehousing (except	4222	
					food lockers).		
				6374	Food lockers (with or without food	4223	
					preparation facilities).		
				6375	Household goods warehousing and	4224	
					<del>storage.</del>		
				6376	General warehousing and storage.	4225	
				6379	Other warehousing and storage,	4226	
					— NEC.		

	639	Other business services, NEC.	6391	Research, development, and testing services.	7391
			6392	Business and management consulting	7392
			0072	<u>services.</u>	10/2
			6393	Detective and protective services.	7393
			6394	Equipment rental and leasing serv	<del>7394</del>
				ices.	
			6395	Photofinishing services.	7395
			6395	Trading stamp services.	7396
			6390 6397	Automobile and truck rental serv	
			0371	<u>Automobile and truck rental serv</u>	/311
			6398		7812 and 78
			0396	-	/012 and /e
			6399	<u>services.</u> Other business services, NEC.	7200
			6399	Other Dusiness services, NEC.	7399
(4 D · · ·	641	A / 111 1 1 1	6411	A / 111 · ·	752
64 Repair services.	641	Automobile repair and services.	6411	Automobile repair services.	<u> </u>
			6412	Automobile wash services.	Incl. 7541
			6419	Other automobile services (except re	Incl. 7541
				pair and wash), NEC.	
	640		<i></i>		
	649	Other repair services, NEC.	6491	Electrical repair services (except	Incl. 7621
				radio and television).	
			6492	Radio and television repair services.	7622
			6493	, , J J I	<del></del>
				services.	
			6494	Reupholstery and furniture repair	764
				services.	
			6495	Armature rewinding services.	7694
			6499	Other repair services, NEC.	7699
(5 D ( ' ) '					001 002
65 Professional services.		Medical and other health serv	6511	Physicians' services.	801, 803,
		ices.	6510	Dentel comico	and 804
			<u>- 6512</u>	Dental services.	<u></u>
			6513	Hospital services.	<u></u>
				Medical laboratory services.	8071
			6515	Dental laboratory services.	8072
			6516	<ul> <li>Sanitariums, convalescent, and rest</li> <li>home services.</li> </ul>	<del></del>
			6517	Medical clinics out patient services.	
			6519	Other medical and health services,	8099
			001)	— NEC.	//
	652	Legal services.	6520	Legal services.	811
				<b>.</b>	001
	659	Other professional services,	6591	Engineering and architectural serv	891
		NEC.		ices.	
			6592	Educational and scientific research	<u> </u>
			6593	Accounting, auditing, and book	<del></del>
				keeping services.	
			6594	Urban planning services.	Incl. 899
			6599	Other professional services, NEC.	Incl. 899
66 Contract construction	661	General contract construction	6611	Building construction general con	151
services.		services.		tractor services.	
			6619	Other general construction contrac	16

Other general constr tor services, NEC.

### B. A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES -- TWO-, THREE , AND FOUR-DIGIT

						SIC
ode	Category	Code	Category	Code	Category	
56	Contract construction	662	Special construction trade serv	6621	Plumbing, heating, and air condi	17
	services Continued		ices.			
				6622	Painting, paper hanging, and decor	172
					ating services.	
				6623	Electrical services.	17:
				6624	Masonry, stonework, tile setting,	17
					and plastering service.	
				6625	Carpentering and wood flooring.	
				6626	Roofing and sheet metal services.	
				6627	Concrete services.	17
				6628	Water well drilling services.	17
				6629		179
					services, NEC.	
57—	Governmental services.	671	Executive, legislative, and ju	6710	Executive, legislative, and judicial	Incl. 919
			dicial functions.		functions.3	<u>929, and 939</u>
						, 2, and 55
		672	Protective functions and their	6721	Police protection and related activi-	Incl. 919
			related activities.		ties.	929, and 939
				6722	Fire protection and related activities.	Incl. 919
					•	929, and 939
				6723	Civil defense and related activities.	Incl. 919
						929, and 939
		673	Postal services.	6730	Postal services.	Incl. 919
		674	Correctional institutions.	6741	Prisons.	Incl. 919
						929, and 939
				6749	Other correctional institutions, NEC.	Incl. 919
				22		929, and 939
		675	Military bases and reservations.4	6751	Military training bases.	Incl. 919 and 92
						- und 92
				6752	Military defense installations.	Incl. 919
						and 929
				6753	Military storage depots and trans	Incl. 919
					portation centers.	and 929
				6754	Military maintenance centers.	Incl. 919
						and 929
				6755	Military administration or command	Incl. 919
					centers.	and 929
				6756	Military communication centers.	Incl. 919
						and 929
						anu 925
				6759	Other military bases and reserva	
				6759	Other military bases and reservations, NEC.	Incl. 919 and 929 and 929

### LEVELS -- Continued

education.		rimary (elementary) schools. <b>5</b> econdary schools. <b>6</b>	Incl. 821 Incl. 821
	<del>6822 Ju</del>	niversities and colleges. mior colleges. rofessional schools.	Incl. 8221 Incl. 8222 Incl. 8221
	<u>6832</u> Bi	ocational or trade schools. usiness and stenographic schools. arber and beauty schools.	<u>8242</u> Incl. 8299 Incl. 723 and 724
	6835 Di 6836 Di 6837 Ci 6839 Oi	rt and music schools. ancing schools. riving schools. orrespondence schools. ther special training and schooling, NEC.	Incl. 8299 Incl. 7911 Incl. 8299 8241 Incl. 8299

<del>B 19</del>

Code	Category	Code	Category	Code	Category	SIC La Reference <sup>1</sup> Cla
<u> </u>	Miscellaneous services.	<del>691</del>	Religious activities.7	<u> </u>	<u>Churches, synagogues, and temples.</u>	Incl. 866
					Other religious activities, NEC.	Incl. 866
		692	Welfare and charitable services.	6920	Welfare and charitable services.	867
		699	Other miscellaneous services,	6991	Business associations.	861
			NEC.	6992	Professional membership organiza	862
				6993	Labor unions and similar labor organizations.	863
				6994	Civic, social, and fraternal associa	864
				6999	Other miscellaneous services, NEC.	
FOOTNO	<del>TES</del>					
-+The SIC	codes are listed for purposes o	of reference.	They are the	legislature and	courts. All operational activities (e.g.,	
shipbuildir	6.					
	ne SIC system that most nearly	-correspond (	to the 4-digit land	schools, or hosp	pitals) should be identified separately	
under the r						
	y indicated. (See ch. III, sec. A			activity codes.		
Industrial ( the installa	Classification Nomenclature.")	) A dash ind	icates that there	<sup>4</sup> Code 675_"N	Ailitary bases and reservations" include	
	esponding SIC code.			tions used by b	oth the active military as well as the	
Reserves a				-	-	
- <sup>2</sup> Code-63	7"Warehousing and storage s	services" inc	lude only those	National Guard	-	

facilities that are used by or are open to the public. When ware	5 Code 6812 "Primary (elementary) schools" may or
may not include	
housing and storage is functionally and organizationally linked to	a kindergarten, but they do include grades 1 through 6.
another activity (e.g., a general contractor or an apparel manufacturer),	Code 6813 "Secondary schools" are schools that
include grades 7	
the facilities are identified and coded the same as the parent activity	through 12, popularly known as junior and senior high
schools.	
and with a code of 4 (warehousing and storage) in the auxiliary position.	<sup>7</sup> Code 691 "Religious activities" include only those
places operated	
For example, 2310 4 is a warehouse and storage area of a manufacturer	for worship or for the promotion of religious activities.
Activities	
of men's, youths', and boys' suits, coats, and overcoats.	maintained by the religious organizations (e.g., schools,
hospitals, pub-	
- <sup>3</sup> Code 6710 "Executive, legislative, and judicial functions" include	lishing houses, etc.) should be identified separately under
the respective	

only the central and administrative office activities of the agencies or activity codes. special authorities involved in government functions, including the

71 Cultural activities and	711	Cultural activities.	7111	Libraries	823
nature exhibitions.			7112	Museums.	Incl. 841
			7113	Art galleries.2	Incl. 841
			7119	Other cultural activities, NEC.	
	712	Nature exhibitions.	7121	Planetaria.	
			7122	Aquariums.	Incl. 8421
			7123	Botanical gardens and arboretums.	Incl. 842
			7124	Zoos.	
			7129	Other nature exhibitions, NEC.	
	719	Other cultural activities and	7191	Historic and monument sites.3	
		nature exhibitions, NEC.	7199	Other cultural activities and nature	
				exhibitions, NEC.	
72 Public assembly.	721	Entertainment assembly.	7211	Amphitheaters.	
			7212	Motion picture theaters.	Incl. 7831
			7213	Drive in movies.	Incl. 7831
			7214	Legitimate theaters.	
			7219	Other entertainment assembly, NEC.	
	722	Sports assembly.4	7221	Stadiums.5	Incl. 7941
		· · ·	7222	Arenas and field houses.	
			7223	Race tracks.6	Incl. 7948
			7229	Other sports assembly, NEC.	
	723		7231	Auditoriums.	
		purposes.	7232	Exhibition halls.	
		1 1	7239	Other miscellaneous assembly, NEC.	
	729	Other public assembly, NEC.	7290	Other public assembly, NEC.	
73 Amusements.	731	Fairgrounds and amusement	7311	Fairgrounds.	Incl. 7949
7.5 Alliusements.					

\*Fairgrounds are Class B Land; when used for automobile and

- motorcycle racing, Fairgrounds are Class C Land.

### **LEVELS** -- Continued

~ •		~ .			_	SIC
Code	Category	Code	Category	Code	Category	Reference <sup>4</sup>
73	Amusements Continued	739	Other amusements, NEC.	7391	Penny arcades.	Incl. 7949
				7392	Miniature golf.	Incl. 7949
				7393	Golf driving ranges.	Incl. 7949
				7394	Go cart tracks.	Incl. 7949
				7399	Other amusements, NEC	Incl. 7949
	Recreational activities.	741	Sports activities.	7411	Golf courses (without country club).	
42				7412	Golf courses (with country club).	7947
					Tennis courts.	
					Ice skating	Incl. 7945
					Roller skating	Incl. 7945
					Riding stables.	
					Bowling	Incl. 7931
					Skiing and tobogganing.	
				7419	Other sports activities, NEC.	
		742	Playgrounds and athletic areas.	7421	Play lots or tot lots.7	
		. 12	, prounds and amono mous.		Playgrounds.8	
				7423	Playfields or athletic fields.9	
				7423		
					Recreation centers (general).10	L. 1 70.40
				7425	Gymnasiums and athletic clubs.	Incl. 7949
EC				7429	Other playground and athletic areas,	
<del></del>						
		743	Swimming areas.	7431	Swimming beaches.11	
				7432	Swimming pools.12	<del>79</del> 44
		744	Marinas.13	7441	Yachting clubs.	Incl. 7949
		,44	With Mus.15	7441		
				7449	Other marinas, NEC.	
		749	Other recreation, NEC.	7491	Camping and picnicking areas.14	
				7499	Other recreation, NEC.	
75	Resorts and group camps.	751	Resorts.	7511	General resorts.15	
,3	resons and group camps.		- resoltà.		- General resorts. 15 - Dude ranches.	Incl. 7032
					Health resorts.	Incl. 7032
-						<u>— nici. 6092</u>
				<del>7514</del>		La -1 7022
				7515	Hunting and fishing clubs. <b>18</b>	Incl. 7032
				7519	Other resorts, NEC.	
		752	Group or organized camps.	7520	Group or organized camps.17	Incl. 7032
	Parks.	<del>761</del>	Parks general recreation.	7610	Parks general recreation.18	
		762	Parks leisure and ornamental.	7620	Parks leisure and ornamental.19	
			i arks reisure and Offiditiental.	7020	Tarks feisure and officitionentiti.17	
		762				
		769	Other parks, NEC.	7690	Other parks, NEC.	
	Other cultural, entertain			<del>7690</del>	Other parks, NEC.	

teeters, swings, climbing	
-*The SIC codes are listed for purposes of reference. They are the	apparatus, etc. They are identified and coded
only when found as a	
codes in the SIC system that most nearly correspond to the 4 digit	separate activity and not subsidiary to or serving
another activity (e.g.	
land use activity indicated. (See ch. III. sec. A3, "The Use of Standard	- apartment house or playground).
Industrial Classification Nomenclature,") A dash indicates that there	*Code 7422 "Playgrounds" are areas that have
been developed for	
is no corresponding SIC code.	active play and recreation. They are identified
and coded only when	
- <sup>2</sup> Code 7113"Art galleries" do not include those galleries that sell	found as a separate activity and not subsidiary to
or serving another	
art objects commercially. Commercial sales are coded 5999, "Other	activity (e.g., a school).
retail trade, NEC."	<sup>9</sup> Code 7423 "Playfields or athletic fields"
contain a playground as	
- <sup>3</sup> Code 7191 "Historic and monument sites" include those locations	well as a field(s) or court(s) for competitive
sports (e.g., baseball, foot-	
set aside for no other purpose than to commemorate an historical event,	ball, or tennis). Bleachers or grandstands may be
provided. They	
activity, or person.	are identified and coded only when found as a
separate activity and not	
- <sup>4</sup> Code 722 "Sports assembly" includes only the public assembly	
school).	
areas used for nonparticipating sports.	<sup>40</sup> Code 7414""Recreation centers (general)"
include diversified	
- <sup>5</sup> Code 7221 "Stadiums" include those used for individual sports,	recreation for a wide variety of activities for all
ages and interests.	
e.g., baseball or football, as well as those used for several sports activi	The recreation centers may contain, but are not
limited to a gymnasium,	
ties.	social or play rooms, game rooms, arts and craft

ties.	social or play rooms, game rooms, arts and craft
shops, etc.	
- <sup>6</sup> Code 7223 "Race tracks" include those used for individual racing	<sup>44</sup> Code 7431 "Swimming beaches" are beach
areas that have been	
activities, e.g., horse racing and automobile racing, as well as those used	-set aside specifically for the purpose of
swimming. They are identified	
for several racing activities.	only when they are not a part of a larger activity
<del>(e.g., a park).</del>	
- <sup>2</sup> Code 7421 "Play lots or tot lots" are small areas developed espe	<sup>12</sup> Code 7432 "Swimming Pools" are separately

### identified if they are

**FOOTNOTES** 

cially for preschool or elementary school aged children. They may Footnotes continued on following page.

<u>B-21</u>

### B. A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES -- TWO-, THREE-, AND FOUR-DIGIT LEVELS -- Continued

independent of other functions (e.g., code 72, "Public assembly" or	16Code 7515 "Hunting and fishing clubs" include
areas on which	
code 11, "Household units"). They may be indoor or outdoor pools.	artificially propagated game or fish are released for
purposes of hunting	
-13Code 744 "Marinas" include marine terminals and associated or fishing. I	If there are other uses made of the property (e.g., agricul-
areas that are primarily for recreational marine craft. The sale and	tural use), these "other" uses should take priority in
identifying the	
repair of recreational marine craft is coded 5591, "Marine craft and	activity of the parcel.
accessories retail" and code 3443, "Ship and boat building and re	17Code 7520 "Group or organized camps"
include general camps for	
pairing," respectively.	children, as well as Boy Scout and Girl Scout
<del>camps.</del>	
-14Code 7491 "Camping and picnicking areas" are separately identified	18Code 7610 "Parks general recreation" may
include, but are not	

contain such facilities as sand boxes, slides,

if they are not a part of a larger activity (e.g., a park). limited to, picnic areas, bathing beaches, playfields,

hiking trails,

-15Code 7511 "General resorts" have rooms for 20 or more persons camping grounds, and other manmade recreation facilities.

and have provision for at least 2 types of recreational activities, exclud 19Code 7620 "Parks leisure and ornamental"are largely for scenic

ing lawn games, children's playgrounds, and swimming pools. or leisure purposes. They may contain beaches, children's play facilit-

ties, monuments, or statues.

ode	Category	Code	Category	Code	Category	<u>SIC</u> <u>Reference</u>
1 <u>Ag</u>	riculture.2	811	Farms (predominant crop,	8111	Farms (predominant crop, cotton).	
			fibers).3	8119	Farms (other type fiber crops).	
		812	Farms (predominant crop, cash	8120	Farms (predominant crop, cash	
			grains).3		<del>grains).</del>	
		813	Farms (field crops other than	8130	Farms (field crops other than fiber	
			fiber or cash grain crops).3		or cash grain crops).	
		814	Farms (predominant crop,	8141	Farms (predominant crop, fruits).	
			fruits, tree nuts, or vegeta	8142	Farms (predominant crop, tree nuts).	
			bles).3	8143	Farms (predominant crop, vege tables).	
		815	Farms (predominantly dairy	8150	Farms (predominantly dairy prod	
		015	products).3	0150	ucts).	
		816	Farms and ranches (livestock	8161	Farms and ranches (predominantly	
			other than dairy).3		<del>cattle).</del>	
				8162	Farms and ranches (predominantly	
				8163	— hog). Farms and ranches (predominantly	
				0105		
				8164	Farms and ranches (predominantly	
				8169	<del>goat).</del>	
				8109	Farms and ranches (other livestock), — NEC.	
		817	Farms (predominantly poultry).3	8170	Farms (predominantly poultry).	
		010		8180		
		818	Farms (general no predomi nance). <b>3</b>	8180	Farms (general no predominance).	
		819	Other agriculture and related	8191	Range and grassland pastures (not	
			activities, NEC.		<u>farm or ranch).4</u>	
				8192	Horticultural specialties.	0192
<del>cl. 0193</del>				8193	<u> </u>	
				8194		
<del>cl. 0193</del>				0171	*	
				8199	<ul> <li>nantly horse raising).</li> <li>Other agriculture and related activi-</li> </ul>	
				0177	other agriculture and related activit	
					ties, NEC.	

82	Agricultural related activi	821	Agricultural processing.3	8211	Cotton ginning and compressing.	
2	ties.			8212	Grist milling services.	
3				0010		
4				8213	- Corn shelling, hay baling, and thresh-	
					ing services.	
· _				8214	Contract sorting, grading, and pack-	
4 <del>5</del>						
					<u>- aging services (iruits and vegeta-</u>	
				8219	Other agricultural processing serv-	
<del>'19</del>						
					ices, NEC.	
		822	Animal husbandry services.	8221	Veterinarian services.	
<del>el. 0722</del>		-	·			
				8222	Animal hospital services.	
el. 0722				0113	Dultze betel any convices	
23				8223	Poultry hatchery services.	
23				8229	Other animal husbandry services,	
<del>29 C</del>						
			<del>B-22</del>		— NEC.	
						010
Code	Category	Code	Category	Code	Category	SIC Reference <sup>4</sup>
						Reference <sup>1</sup>
	Category Agricultural related activi ties Continued		Category Other agricultural related activi ties, NEC.		Horticultural services.	
	Agricultural related activi		Other agricultural related activi	8291	Horticultural services.	Reference <sup>1</sup>
	Agricultural related activi	829	Other agricultural related activi	8291 8299	Horticultural services. Other agricultural related activities,	Reference <sup>1</sup>
	Agricultural related activi ties Continued	829	Other agricultural related activi	8291 8299 8311	Horticultural services. Other agricultural related activities, — NEC. — Timber production predominantly for pulp wood.	Reference <sup>1</sup>
	Agricultural related activi ties Continued Forestry activities and re	829	Other agricultural related activi ties, NEC. Commercial forestry produc	8291 8299 8311	Horticultural services.     Other agricultural related activities,     NEC.     Timber production predominantly     for pulp wood.     Timber production predominantly	Reference <sup>1</sup>
	Agricultural related activi ties Continued Forestry activities and re	829	Other agricultural related activi ties, NEC. Commercial forestry produc	8291 8299 8311 8312	Horticultural services.     Other agricultural related activities,     NEC.     Timber production predominantly     for pulp wood.     Timber production predominantly     for saw logs.	Reference <sup>1</sup>
	Agricultural related activi ties Continued Forestry activities and re	829	Other agricultural related activi ties, NEC. Commercial forestry produc	8291 8299 8311 8312	Horticultural services.     Other agricultural related activities,     NEC.     Timber production predominantly     for pulp wood.     Timber production predominantly     for saw logs.     Timber production predominantly	Reference <sup>1</sup>
	Agricultural related activi ties Continued Forestry activities and re	829	Other agricultural related activi ties, NEC. Commercial forestry produc	8291 8299 8311 8312 8313	Horticultural services.     Other agricultural related activities,     NEC.     Timber production predominantly     for pulp wood.     Timber production predominantly     for saw logs.	Reference <sup>1</sup>
	Agricultural related activi ties Continued Forestry activities and re	829	Other agricultural related activi ties, NEC. Commercial forestry produc	8291 8299 8311 8312 8313	Horticultural services. Other agricultural related activities, NEC: Timber production predominantly for pulp wood. Timber production predominantly for saw logs. Timber production predominantly for veneer logs. Timber production mixed uses. Tree products production predomi	Reference <sup>1</sup>
	Agricultural related activi ties Continued Forestry activities and re	829	Other agricultural related activi ties, NEC. Commercial forestry produc	8291 8299 8311 8312 8313 8313 8314	Horticultural services.     Other agricultural related activities,     NEC:     Timber production predominantly     for pulp wood.     Timber production predominantly     for saw logs.     Timber production predominantly     for veneer logs.     Timber production mixed uses.     Tree products production predomi     nantly gum extracting (except pine	Reference <sup>‡</sup> 0731
	Agricultural related activi ties Continued Forestry activities and re	829	Other agricultural related activi ties, NEC. Commercial forestry produc	8291 8299 8311 8312 8313 8314 8314 8315	Horticultural services.     Other agricultural related activities,     NEC:     Timber production predominantly     for pulp wood.     Timber production predominantly     for saw logs.     Timber production predominantly     for veneer logs.     Timber production mixed uses.     Tree products production predomi     nantly gum extracting (except pine     gum) and bark.	
	Agricultural related activi ties Continued Forestry activities and re	829	Other agricultural related activi ties, NEC. Commercial forestry produc	8291 8299 8311 8312 8313 8313 8314	Horticultural services.     Other agricultural related activities,     NEC:     Timber production predominantly     for pulp wood.     Timber production predominantly     for saw logs.     Timber production predominantly     for veneer logs.     Timber production mixed uses.     Tree products production predomi     nantly gum extracting (except pine     gum) and bark.     Tree products production predomi	Reference <sup>‡</sup> 0731
	Agricultural related activi ties Continued Forestry activities and re	829	Other agricultural related activi ties, NEC. Commercial forestry produc	8291 8299 8311 8312 8313 8314 8314 8315 8316	Horticultural services.     Other agricultural related activities,     NEC:     Timber production predominantly     for pulp wood.     Timber production predominantly     for saw logs.     Timber production predominantly     for veneer logs.     Timber production mixed uses.     Tree products production predomi     nantly gum extracting (except pine     gum) and bark.     Tree products production predomi     nantly pine gum extraction.	
	Agricultural related activi ties Continued Forestry activities and re	829	Other agricultural related activi ties, NEC. Commercial forestry produc	8291 8299 8311 8312 8313 8314 8314 8315	Horticultural services. Other agricultural related activities, NEC: Timber production predominantly for pulp wood. Timber production predominantly for saw logs. Timber production predominantly for veneer logs. Timber production mixed uses. Tree products production predomi mantly gum extracting (except pine gum) and bark. Tree products production predomi mantly pine gum extraction.	
	Agricultural related activi ties Continued Forestry activities and re	829	Other agricultural related activi ties, NEC. Commercial forestry produc	8291 8299 8311 8312 8313 8314 8314 8315 8316	Horticultural services.     Other agricultural related activities,     NEC:     Timber production predominantly     for pulp wood.     Timber production predominantly     for saw logs.     Timber production predominantly     for veneer logs.     Timber production mixed uses.     Tree products production predomi     nantly gum extracting (except pine     gum) and bark.     Tree products production predomi     nantly pine gum extraction.     Timber and tree products product     tion mixed uses.	
	Agricultural related activi ties Continued Forestry activities and re	829	Other agricultural related activi ties, NEC. Commercial forestry produc	8291 8299 8311 8312 8313 8314 8314 8315 8316 8316 8317	Horticultural services. Other agricultural related activities, NEC: Timber production predominantly for pulp wood. Timber production predominantly for saw logs. Timber production predominantly for veneer logs. Timber production mixed uses. Tree products production predomi mantly gum extracting (except pine gum) and bark. Tree products production predomi mantly pine gum extraction. Timber and tree products produc tion mixed uses.	
	Agricultural related activi ties Continued Forestry activities and re	<u>829</u> 831	Other agricultural related activi ties, NEC. Commercial forestry produc tion.7	8291 8299 8311 8312 8313 8314 8314 8315 8316 8316 8317 8319	Horticultural services. Other agricultural related activities, NEC. Timber production predominantly for pulp wood. Timber production predominantly for saw logs. Timber production predominantly for veneer logs. Timber production mixed uses. Tree products production predomi nantly gum extracting (except pine gum) and bark. Tree products production predomi nantly pine gum extraction. Timber and tree products produc tion mixed uses. Other commercial forestry produc tion, NEC.	
	Agricultural related activi ties Continued Forestry activities and re	829	Other agricultural related activi ties, NEC. Commercial forestry produc	8291 8299 8311 8312 8313 8314 8314 8315 8316 8316 8317 8319 8321	Horticultural services. Other agricultural related activities, NEC. Timber production predominantly for pulp wood. Timber production predominantly for saw logs. Timber production predominantly for veneer logs. Timber production mixed uses. Tree products production predomi mantly gum extracting (except pine gum) and bark. Tree products production predomi mantly pine gum extraction. Timber and tree products produc tion mixed uses. Other commercial forestry produc tion, NEC. Forest nurseries.	
	Agricultural related activi ties Continued Forestry activities and re	<u>829</u> 831	Other agricultural related activi ties, NEC. Commercial forestry produc tion.7	8291 8299 8311 8312 8313 8314 8314 8315 8316 8316 8317 8319	Horticultural services. Other agricultural related activities, NEC. Timber production predominantly for pulp wood. Timber production predominantly for saw logs. Timber production predominantly for veneer logs. Timber production mixed uses. Tree products production predomi nantly gum extracting (except pine gum) and bark. Tree products production predomi nantly pine gum extraction. Timber and tree products produc tion mixed uses. Other commercial forestry produc tion, NEC.	
	Agricultural related activi ties Continued Forestry activities and re	<u>829</u> 831	Other agricultural related activi ties, NEC. Commercial forestry produc tion.7	8291 8299 8311 8312 8313 8314 8314 8315 8316 8316 8317 8319 8321	Horticultural services.         Other agricultural related activities,         NEC.         Timber production predominantly         for pulp wood.         Timber production predominantly         for saw logs.         Timber production predominantly         for veneer logs.         Timber production mixed uses.         Tree products production predomi         nantly gum extracting (except pine         gum) and bark.         Tree products production predomi         nantly pine gum extracting.         Timber and tree products produc         tion mixed uses.         Other commercial forestry produc         tion, NEC.         Forest nurseries.         Other forestry services, NEC.	
	Agricultural related activi ties Continued Forestry activities and re	<u>829</u> <u>831</u>	Other agricultural related activi ties, NEC. Commercial forestry produc tion.7	8291 8299 8311 8312 8313 8314 8315 8316 8317 8319 8321 8329	Horticultural services. Other agricultural related activities, NEC. Timber production predominantly for pulp wood. Timber production predominantly for saw logs. Timber production predominantly for veneer logs. Timber production mixed uses. Tree products production predomi mantly gum extracting (except pine gum) and bark. Tree products production predomi mantly pine gum extraction. Timber and tree products produc tion mixed uses. Other commercial forestry produc tion, NEC. Forest nurseries.	
	Agricultural related activi ties Continued Forestry activities and re	<u>829</u> <u>831</u>	Other agricultural related activi ties, NEC. Commercial forestry produc tion.7 Forestry services.	8291 8299 8311 8312 8313 8314 8315 8316 8316 8317 8319 8321 8329 8320 8390	Horticultural services. Other agricultural related activities, NEC. Timber production predominantly for pulp wood. Timber production predominantly for saw logs. Timber production predominantly for veneer logs. Timber production mixed uses. Tree products production predomi mantly gum extracting (except pine gum) and bark. Tree products production predomi mantly pine gum extraction. Timber and tree products produc tion mixed uses. Other commercial forestry produc tion, NEC. Forest nurseries. Other forestry services, NEC.	

lated services.	8412	Shellfish fisheries.	0913
	8419	Other fisheries and marine products,	
		— NEC.	
842 Fishery serve	es. 8421	Fish hatcheries.	Incl. 0989
	8429	Other fishery services, NEC.	Incl. 0989
849 Other fisher	tiiti		
		Other fishery activities and related	
lated servic	S, NEC.	services, NEC.	
	ing. 8511	Iron ore mining.	101
85 Mining activities and re 851 Metal ore mi lated services.	5	Copper ore mining.	<u>101</u> 102
lated services.		Lead and zinc ore mining.	102
		Gold and silver ore mining.	103
		Bauxite and other aluminum ore	
	0010	mining.	105
	8516	Ferroalloy ore (except vanadium)	106
	0510	mining.	100
	8519	-	109
	0317	other metal ore mining, rede.	102
852 Coal mining	8521	Anthracite coal mining.	111
	<u> </u>	-	1211
		Lignite coal mining.	1211
853 Crude petrol	um and natural gas. 8530	Crude petroleum and natural gas.	131
	C	i C	
854 Mining and	uarrying of non 8541	Dimension stone.	141
		Crushed and broken stone (including	142
fuels).			
	8543	Sand and gravel quarrying.	144
	8544		145
	8545	Chemical and fertilizers (mineral)	147
		mining.	
	8549	Other mining and quarrying of non	148
		metallic minerals (except fuels), NEC.	
855 Mining servi		Metal mining services.	108
	8552	Coal mining services.	
<del>112 and 1213</del>			
	8553	Crude, petroleum and gas field	138
		services.	
	8554	Nonmetallic mining (except fuel)	148
		services.	
	8559	Other mining services, NEC.	<u> </u>
	e: production and 8900	1	
and extraction, NEC. extraction,		tion, NEC.	
	<del>B-23</del>		
3. A STANDARD SYSTEM FOR IDENTIFYING AND CO LEVI	LS Continued	I WO-, IHKEE-, AND FOUK-DIGH	
	<del>L5 Continucu</del>		
COOTNOTES	form	or ranch. These areas are usually part of	
he public domain in	Tarino	or rates. These areas are usually part of	
	which	erazing has been permitted.	
<sup>+</sup> The SIC codes are listed for purposes of reference. They are the		le 821 "Agricultural processing" includes	
	- 600		
hiv brainingry			
	nd proce	ssing of agricultural products Any	
codes in the SIC system that most nearly correspond to the 4 digit l	nd proce	ssing of agricultural products. Any	
only preliminary codes in the SIC system that most nearly correspond to the 4 digit l extensive processing, packing, use activity indicated. (See ch. III, Se. A3, "The Use of Standard		ssing of agricultural products. Any ng, or manufacturing is coded 21, "Food	

Industrial Classification Normanalature ") A dech indicates that there	monufacturin a "
Industrial Classification Nomenclature.") A dash indicates that there is no corresponding SIC code.	<u>manufacturing.</u> — <sup>6</sup> Code 83—"Forestry activities and related
services." The categories	- Code 85 Polestry activities and related
<sup>2</sup> Code 81 "Agriculture." A parcel of land is considered to be in	in this classification are based upon primary use
of the land. It is	in this classification are based upon printary use
agricultural use if 10 or more acres are under cultivation, in tree or	recognized that other activities, e.g., recreation
or the grazing of live-	
bush crops, or are used for livestock or poultry purposes. The 10 acres	stock may also be taking place within these
forested areas. However,	
may include the area of the residence, if there is one, and the immediate	these types of activities are considered secondary
in nature and not	51
associated area surrounding the residence. coded. Activities such as mining (code 8	5), permanent camping areas
- <sup>3</sup> A farm may consist of several ownership or rented parcels of land	(code 7491), and logging camps (code 2410),
located within the	
that are noncontiguous. However, each parcel should be linked to	forested areas should be separately identified.
gether as one "farm management unit," and identified by only one	- <sup>7</sup> Code 831 "Commercial forestry production"
includes those	
3- or 4-digit category, e.g., code 8120, "Farms (predominant crops, cash	forested areas not on the farms or ranches that
are being managed or	
grains)."	have been set aside to grow tree crops for
"industrial wood" or to obtain	
Using the "Farm use" categories in app. 2 of this report, farm (i.e.,	tree products such as sap, bark, or seeds.
"Industrial wood" includes	
the farm management units) are to be classified by the most predominant	commercial roundwood products, such as saw
logs and pulpwood, but	
use made of the land (the farm use taking up the greatest percentage of	excludes fuel wood and fence posts. "Forest
reserves," i.e., areas	
farm area) excluding the areas used by farm residences and associated	withdrawn from any commercial use of the trees,
are coded 921.	
buildings, nonresident farm buildings, areas in feed crops, and grazed	"Parks," e.g., national or State parks, are also a
type of forest reserve,	
and nongrazed forested areas. Exceptions to this rule are:	but because of their designation for recreational
activity, they should	
a. If 50 percent or more of the value of the farm products sold in the	be identified as "Parks" under code 76. Forested
<del>areas not on farms,</del>	
- previous year came from the sale of dairy products, or the sale of cows	ranches, or estates with no commercial use made
of the trees are coded	
and calves, the farm is identified as "Farm (predominantly dairy	922, "nonreserve forests (undeveloped)."
products)," code 8150.	<sup>8</sup> Code 841 "Fisheries and marine products"
include those establish-	
b. If 50 percent or more of the value of the farm products sold in	ments primarily engaged in commercial fishing,
the catching or taking	
- the previous year came from the sale of livestock, wool, or mohair,	of shellfish, or the gathering of seaweed,
sponges, turtles, frogs, etc.	
- the farm is identified as "Farms and ranches (livestock, other than	These activities may include some preliminary
processing, e.g., salting.	II
- the farm is identified as "Farms and ranches (livestock, other than	However, any extensive processing, packing,
canning, or manufacturing	of these products should be coded under "Food
- dairy)," code 816.	or these products should be coded under Food
and kindred products	manufacturing," code 21. These categories also
<ul> <li>e. If 50 percent or more of the value of the farm products sold in include the docking</li> </ul>	manufacturing, code 21. These categories also
ç	facilities and their associated areas when these
<ul> <li>the previous year came from the sale of poultry and eggs, the farm facilities are an integral</li> </ul>	racinities and men associated areas when these
is identified as "Farms (predominantly poultry)," code 8170.	part of a single fishery operation. When docking
facilities serve several	part of a single fishery operation. When docking
d. If the percentage of dairy, livestock, and poultry products,	separate fishery establishments, they are coded
4. If the percentage of damy, investock, and pointry products, 4414, "Marine terminals	separate rishery establishments, they are could
	(predominantly fishing vessels)."
each came to less than 50 percent of the value of the farm products	(predominantly institling vessels).

- sold in the previous years, and if there are 3 or more "Farm uses"	— <sup>9</sup> Code 85—"Mining activities and related
services" include those	
- (e.g., corn crop, cotton crop, etc.) within a farm, none of which takes	surface areas being used for mining or drilling
purposes. the process	
-up 25 percent of the total farm area (excluding those areas referred	may be tunnel excavation, strip mining,
quarrying, or by drilling,	
- to above), the farm is identified as "Farms (general no predomi	These categories also include those areas where
preliminary processing	
	of raw materials (e.g., washing, crushing,
screening, etc.) are taking	
- <sup>4</sup> Code 8191 "Range and grass land pastures (not form or ranch)"	place if these processes are an integral part of the
mining operation.	

include grasslands used for grazing purposes that are not a part of a

						SIC
Code	Category	Code	Category	Code	Category	Reference <sup>4</sup>
	Undeveloped and unused	910	Undeveloped and unused land	9100	Undeveloped and unused land area	
	land area (excluding non		area (excluding noncommer		excluding noncommercial forest	
	- commercial forest devel		cial forest development).		development).2	
<u>—92Nor</u>	ncommercial forest de-	921	Forest reserves.3	9211	Forest reserves (wilderness areas).	
	velopment.			9212	Forest reserves (wildlife refuges).	
	*			9219	Other forest reserves, NEC.	
		922	Nonreserve forests (undeveloped).	9220	Nonreserve forests (undeveloped).4	
93	Water areas.	931	Rivers, streams, or creeks.	9310	Rivers, streams, or creeks.	
		932	Lakes.	9320	Lakes.5	
		933	Bays or lagoons.	9330	Bays or lagoons.	
		934	Oceans and seas.	9340	Oceans and seas.	
		939	Other water areas, NEC.	9390	Other water areas, NEC.	
	Vacant floor area.	940	Vacant floor area.	9400	Vacant floor area.	
95	Under construction.	951	Under construction (residential).	9510	Under construction (residential).6	
		952	Under construction (nonresidential).	9520	Under construction (nonresidential).7	
	Other undeveloped land and water areas, NEC.	990	Other undeveloped land and water areas, NEC.	9900	Other undeveloped land and water	
<b>C</b>	es on following page.	<b>B-2</b> 4	water areas, refe.		areas, rec.	

**LEVELS** -- Continued

FOOTNOTES	<sup>4</sup> Code 9220"Nonreserve forests (undeveloped)" are
major forested	
- <sup>4</sup> The SIC codes are listed for purposes of reference. They are the	areas not on a farm, ranch, or large estate with no
commercial use made	
eodes in the SIC system that most nearly correspond to the 4 digit	of the trees. It is recognized that other activities such
as recreation or	

land use activity indicated. (See ch. III, Se. A3, "The Use of Standard	the grazing of livestock may also be taking place
within these forested	
Industrial Classification Nomenclature.") A dash indicates that there	areas. However, these types of activities are
considered secondary in	
is no corresponding SIC code.	-nature and not coded. Activities such as mining (code
85), permanent	
- <sup>2</sup> Code 9100 "Undeveloped and unused land area (excluding non	camping areas (code 7491), and logging camps (code
2410), located	
commercial forest development)" identifies those parcels of land that	within these forested areas should be separately
identified.	
appear to be undeveloped or if previously developed, are presently	<sup>5</sup> Code 9320
(natural or manmade)	-
vacant and unused. This category includes such areas as vacant lands	with a minimum size of 1 acre. Impounded surface
water areas used	-
that once were farms, as well as vacant parcels where structures have	for storage should be identified as "Water storage,"
code 4833.	
been demolished. Vacant nonresidential buildings are coded 9400,	<sup>6</sup> Code 9510 Residential facilities under construction
are considered	
"Vacant floor area."	- to be completed when all exterior windows and doors
are installed and	
- <sup>3</sup> Code 921 "Forest reserves" are forested areas withdrawn from	the usable floors are in place. If construction has not
reached this	
commercial utilization, and which are reserved through statute or admin	point, the parcel should be identified as "Under
construction (resi	
istrative regulation for specific conservation purposes. Forested areas	-dential)," code 9510
designated as park sites may also be restricted from commercial forestry	- <sup>7</sup> Code 9520 "Under construction (nonresidential)" is
used only if	
production, but because of their designation for recreational activity	there is no means of identifying the activity or
activities that will	· · ·
they should be identified and coded as "Parks" (code 76).	-occupy the structure when it is completed.

(Source: Amended at 30 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

### TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE H: NOISE CHAPTER I: ILLINOIS POLLUTION CONTROL BOARD

# PART 910 MEASUREMENT PROCEDURES FOR THE ENFORCEMENT OF 35 ILL. ADM. CODE 900 & 901

# Section

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	use categories and 1/3- octave-band level
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	categories and octave-band level
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	use categories and octave-band level

AUTHORITY: Implementing and authorized by Sections 25 and 27 of the Environmental Protection Act [415 ILCS 5/25 and 27].

SOURCE: Adopted in R03-9 at 30 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

Section 910.100 General

This Part specifies the instrumentation to be used when conducting acoustical noise measurements and sets forth the specific acoustical measurement techniques to be employed when conducting time-averaged sound level ( $L_{eq}$ ) measurements. The instrumentation requirements and measurement techniques as more specifically set forth in this Part must be used in determining whether a noise source is in compliance with 35 Ill. Adm. Code 900 and 901.

Section 910.102 Instrumentation

- a) Sound Measuring Equipment
  - 1) An integrating sound level meter used alone or used in conjunction with an octave-band or 1/3 octave-band filter set or a real-time sound\_analyzer (octave-band or 1/3 octave-band) must conform with the following standards incorporated by reference at 35 Ill. Adm. Code 900.106:
    - A) ANSI S1.4 1983 (R2001) "American National Standard Specification for Sound Level Meters", and ANSI S1.4 A-1985 "Amendment to ANSI S1.4-1983."
    - B) ANSI S1.11 1986 (R1998) "American National Standard Specifications for Octave-Band and Fractional-Octave-Band Analog and Digital Filters."
    - C) ANSI S1.6 1984 (R2001) "American National Standard Preferred Frequencies, Frequency Levels, and Band Numbers for Acoustical Measurements."
    - D) ANSI S1.8 1989 "American National Standard Reference Quantities for Acoustical Levels."
    - E) International Electrotechnical Commission, IEC 804-2000 Integrating/Averaging Sound Level Meters.

- A magnetic tape recorder, graphic level recorder or other indicating device used must meet the requirements of the Society of Automotive Engineers (SAE) Recommended Practice J184 "Qualifying a Sound Data Acquisition System," November 1998, incorporated by reference at 35 Ill. Adm. Code 900.106
- 3) The laboratory calibration of instrumentation used for acoustic measurement must be traceable to the National Bureau of Standards, and must be performed no less often than once every 12 months.
- 4) For outdoor measurement, a windscreen must be attached to the microphone.
- b) Weather Measuring Equipment
  - 1) An anemometer and compass or other devices must be used to measure wind speed and direction in accordance with the manufacturer's recommended procedures.
  - 2) A thermometer, designed to measure ambient temperature, must be used in accordance with the manufacturer's recommended procedures.
  - 3) A hygrometer must be used in accordance with the manufacturer's recommended procedures to measure the relative humidity.
  - 4) A barometer must be used in accordance with the manufacturer's recommended procedures to measure the barometric pressure.

Section 910.103 Definitions

The definitions contained in 35 Ill. Adm. Code 900.101 apply to this Part.

Section 910.104 Measurement Techniques for 35 Ill. Adm. Code 900

Sound pressure level measurements are not required to establish a violation of 35 Ill. Adm. Code 900.102 (nuisance noise). However, sound pressure level measurements may be introduced as corroborating evidence when alleging a violation of 35 Ill. Adm. Code 900.102. If sound pressure level measurements are collected, manufacturer's instructions must be followed for the equipment used and 35 Ill. Adm. Code 910.105 may be used as guidance in gathering data.

Section 910.105 Measurement Techniques for 35 Ill. Adm. Code 901

Sound pressure level measurements must be obtained in accordance with the following measurement techniques to determine whether a noise source is in compliance with 35 Ill. Adm. Code 901:

- a) Site Selection
  - 1) Measurements may be taken at one or more microphone positions within the appropriate receiving land. Measurement instruments must be set up outdoors within the boundaries of the receiving land for the purpose of determining whether a noise source is in compliance with 35 Ill. Adm. Code 901.
  - Measurement instruments must be set up not less than 25 feet (7.6 meters (m)) from the property-line-noise-source. The 25-foot (7.6 m) setback requirement is from the noise source and not the property line unless the noise source is contiguous to the property line.
  - 3) Other measurement locations may be used for investigatory purposes such as, but not limited to, the following:
    - A) Determining the extent of noise pollution caused by the source of sound;
    - B) Determining the ambient; and
    - C) Analyzing those acoustical parameters that describe the sound source.
  - 4) For measurements of sound sources with no audible discrete tones, microphones should not be set up less than 25 feet (7.6 m) from any reflective surface that may affect data. If measurements must be taken within 25 feet (7.6 m), the effect, if any, of the reflective surface on the measured data must be determined.
  - 5) For measurements of sound sources with audible discrete tones, microphones must not be set up less than 50 feet (15.2 m) from any reflective surface that may affect data. If measurements must be taken within 50 feet (15.2 m), the effect, if any, of the reflective surface on the measured data must be determined.
  - 6) Objects with small dimensions (trees, posts, bushes, etc.) must not be within 5 feet (1.5 m) of the microphone position. If measurements must be taken within 5 feet (1.5 m) of such objects, the effect, if any, on the measured data must be determined.
- b) Instrumentation Set Up
  - 1) A tripod must be set at the chosen site. The tripod must be extended to a height between 3 feet 8 inches (1.12 m) and 4 feet 10 inches (1.47 m) above ground.

- 2) A microphone must be attached to the appropriate end of a 5-foot (1.5 m) or longer cable and must be affixed to the top of the tripod. The other end of the cable must be connected to the measuring instrument.
- 3) The angle of incidence of the microphone must be adjusted to yield the flattest frequency response in accordance with the manufacturer's specifications.
- 4) The measuring instrument must be separated from the microphone so as to minimize any influence on the measurements. The cable movement must be minimized during the measurement period.
- c) Measurement Site Operation and Instrument Calibration
  - 1) Before taking sound pressure level measurements, measure and record (near the measurement site):
    - A) Wind speed and direction;
    - B) Ambient temperature;
    - C) Relative humidity; and
    - D) Barometric pressure.
  - 2) Turn the measuring instrument on and allow the instrument to stabilize. Monitor and record the battery condition of the calibrator and all measuring instruments.
  - 3) Turn the calibrator on at its appropriate frequency. Allow the calibrator to stabilize and calibrate the measuring system according to the manufacturer's specifications. After the measuring system has been calibrated, remove the calibrator and attach a windscreen to the microphone.
  - 4) Adjust the microphone to the angle of incidence that will yield the frequency response in accordance with the manufacturer's specifications.
  - 5) Measure the sound pressure level data within the limitations of subsection (d) and according to the manufacturer's recommended procedures. Other sound pressure levels may be used for investigatory purposes such as, but not limited to, the following:
    - A) Determining the extent of noise pollution caused by the source of sound;

- B) Determining the ambient; and
- C) Analyzing those acoustical parameters that describe the sound source.
- 6) While sound measurements are being taken, the operator must be separated from the microphone so as to minimize any influence on the measurements.
- 7) While measurements are being taken, visual and aural surveillance of extraneous sound sources and varying wind conditions must be made to insure that the conditions of measurement are accurately known. Record any variations in these parameters that may affect data. The number and basis for affected data block must be recorded. When using a tape recorder, voice commentary concerning conditions will be recorded on the cue track.
- To minimize wind effects on the microphone, sound measurements must not be taken when the wind velocity is greater than 12 miles per hour (5.4 m/second) at the microphone position.
- 9) For the purposes of data correction, the ambient sound at the measurement site must be determined by means of measurement or analysis.
- 10) After taking sound pressure level measurements, remove the windscreen and attach the calibrator to the microphone. Turn the calibrator on at its appropriate frequency. After allowing the calibrator to stabilize, monitor and record the measuring system response. When the measuring system response varies by more than  $\pm 0.5$  dB from the most recent field calibration, the sound pressure level measurements obtained since such most recent field calibration cannot be used for enforcement purposes.
- 11) Before removing the calibrator from the microphone, turn the calibrator off. If the ambient sound has not been determined by means of measurement, determine the noise floor of the measuring system. If the noise floor is within 10 dB of the measured sound pressure level data, such noise floor measurements must be recorded.
- 12) At the end of the sound survey, monitor and record the battery condition of the calibrator and all measuring instruments. Near the measurement site, measure and record:
  - A) Windspeed and direction;
  - B) Ambient temperature;

- C) Relative humidity; and
- D) Barometric pressure.
- 13) Record the physical and topographical description of the ground surface within the vicinity of the measurement site, survey site location, a description of the sound source, a diagram of the area, the location of reflective surfaces near the microphone, and the approximate location of the noise source relative to the microphone position.
- 14) A magnetic tape recorder may be used to preserve the raw data. Calibration signals must be recorded at the beginning and end of each tape as well as at intermediate times such as when relocating to a new measurement site. Voice commentary concerning local conditions and affected data blocks must be recorded on the cue track. The original tape recording must be preserved for subsequent evaluation. Laboratory analyses may be performed on magnetic tape recorded field data. A description of the laboratory instrumentation and procedures must be recorded. Analyses used in the laboratory must be correlated to field measurement techniques.
- d) Limiting Procedures for Specific Types of Data Acquisition
  - 1) For measurements of non-impulsive sound with audible discrete tones, 1/3 octave-band sound pressure levels must be obtained in determining whether a noise source is in compliance with 35 Ill. Adm. Code 901.106.
  - 2) For measurements of non-impulsive sound with no audible discrete tones, octave-band sound pressure levels must be obtained in determining whether a noise source is in compliance with 35 Ill. Adm. Code 901.102 and 901.103.
- e) Correction Factors

If necessary, correction factors rounded to the nearest 1/2 decibel must be applied to sound pressure level measurements. The correction factors applicable to the measurement system may include, but are not limited to, corrections for windscreen interference and the sound pressure level difference between consecutive field calibrations. Such calibration correction factors must only be used to make negative corrections (subtraction from the field data). In no case must such calibration correction factors be added to the measured sound pressure levels so as to raise the sound pressure level field data. The correction factors applicable to the measurement site may include, but are not limited to, corrections for reflective surfaces and ambient sound.

## Section 910.106 Protocols for Determination of Sound Levels

- a) The raw data collection procedures for the determination of equivalent continuous sound pressure level  $(L_{eq})$  are described in this Section using as an example the determination of a 1-hour  $L_{eq}$  corrected for ambient. The following procedures must be used:
  - 1) Using small blocks:
    - A) The 1-hour interval is divided into many small blocks of time so that corruption of the data from short-term background transient sound and loss of data can be limited to the corrupted or bad blocks. The block duration in seconds must remain fixed for any measurement hour. The duration must be neither less than 10 seconds nor greater than 100 seconds. For example, if the block duration is chosen to be 60 seconds (1 minute), then the data collection proceeds for 60, 1-minute periods of measurement.
    - B) The collected data for each block represents a block duration  $L_{eq}$  (or sound exposure level (SEL)) in octave-bands (or 1/3 octave-bands if prominent discrete tones may be present).
    - C) Data for any block corrupted by one or more short-term background transient sounds must be deleted.
    - D) After deleting corrupted data blocks, there will be a fixed number of "good" data blocks remaining. This number is designated as N<sub>PLNS</sub>, where PLNS stands for Property-Line-Noise-Source. These remaining "good" blocks must be numbered consecutively. The subscript i is used to denote the numbering of the blocks in time order after corrupted data blocks have been deleted.
    - E) The data for the N<sub>PLNS</sub> remaining blocks are time averaged on an energy basis by octave (or 1/3 octave-band) using Equation 1 below. In this equation, two subscripts are used, i to designate time and j to designate the specific frequency, either an octave-band or 1/3 octave-band. The raw, 1-hour  $L_{eq}$  in the *j*th frequency band is given by:

$$L_{eqj} = 10\log\left(\frac{1}{N_{PLNS}}\sum_{i=1}^{N_{PLNS}} 10^{\left(\frac{L_{eqj}}{10}\right)}\right)$$
 [Equation 1]

where  $L_{eq}$  is the  $L_{eq}$  in the *j*th frequency band for the *i*th nondeleted data block. F) In terms of SEL, the raw SEL in the *j*th frequency band is given by:

$$SEL_{j} = 10\log\left(\sum_{i=1}^{N_{PLNS}} 10^{\left(\frac{SEL_{ij}}{10}\right)}\right)$$
 [Equation 2]

G) The raw, 1-hour L<sub>eq</sub> in the *j*th frequency band is given in terms of the corresponding SEL<sub>j</sub> by:

$$L_{eqj} = SEL_j + 10\log\left(\frac{3600}{N_{PLNS}\Delta T}\right)$$
 [Equation 3]

Where T is the block duration in seconds,  $N_{PLNS}$  is the number of non-discarded data blocks, and 3600 is the number of seconds in an hour.

- 2) Continuous Data Collection:
  - A) The measuring instrument must be adjusted to continuously measure sound pressure and accumulate  $L_{eq}$  for each block of time. For convenience, the hour may be split into several smaller blocks such as 10, 6-minute blocks or 4, 15-minute blocks, etc.
  - B) A switch on the measuring instrument must be available to inhibit data collection whenever a short-term background transient sound occurs. This switch shall be used to prevent short-term background ambient sounds from corrupting the data.
  - C) Data collection must proceed for one hour. The energy average of the several measured  $L_{eqij}$  each weighted by the number of seconds actually accumulated during the *i*th block results in the raw, 1-hour  $L_{eq}$  in each frequency band given by:

$$L_{eqj} = 10 \log \left( \frac{1}{T_{PLNS}} \sum_{i=1}^{N_{PLNS}} T_i 10^{\left(\frac{L_{eqij}}{10}\right)} \right)$$
 [Equation 4]

Where  $L_{eqij}$  is the  $L_{eq}$  in the jth frequency band for the *i*th large block. T<sub>i</sub> is the actual number of seconds of "good" data accumulated in the *i*th block of time (e.g., 6 to 15 minutes); and

$$T_{PLNS} = \sum_{i=1}^{N_{PLNS}} T_i$$
 [Equation 5]

- 3) Minimum data collection requirements:
  - A) Initial Measurement Duration. The property-line-noise-source measurements must proceed initially for one hour. Because of correction for short-term background transient sounds, actual reported data collection time T, in seconds, may be less than 3600 seconds (one hour).
    - i) If small blocks of data are used for data collection, then the total measurement duration in seconds,  $T_{PLNS}$  is given by  $N_{PLNS}$  T, where T is the length of each block in seconds and  $N_{PLNS}$  is the number of non-discarded blocks. If data inhibition is used for data collection, then  $T_{PLNS}$  is the number of non-inhibited seconds during the measurement hour. In either case,  $T_{PLNS}$  must be no less than 900 seconds.
    - ii) If very few blocks were used for data collection, then the duration of each block, T, may be too long and should be reduced.
    - iii) For either data collection method, sounds considered to be short-term transient may actually be part of the long-term background ambient and should be so redefined.
  - B) Extended Measurement Duration. If  $T_{PLNS}$  is less than 900 seconds during the first hour of measurements, the raw data collection procedures must be appropriately modified and new measurements must proceed for an additional hour. If  $T_{PLNS}$  after combining the first and the second hour of measurements is also less than 900 seconds, then the raw data collection must continue using the data inhibition method or method employed during the second hour until  $T_{PLNS}$  is greater than or equal to 900 seconds.
- 4) Correction for Long-Term Background Ambient Sound:
  - A) The raw 1-hour  $L_{eq}$  must be corrected for long-term background ambient sound. Subsection (b) of this Section describes methods to obtain the long-term background ambient sound level in the jth frequency band. The correction is dependent on the difference (in decibels) between the raw, 1-hour, jth band property-line-noisesource:  $L_{eqj}$  and corresponding jth band long-term background ambient sound level. The correction to be applied is as follows:

- i) If the difference between the raw 1-hour  $L_{eq}$  and the long-term background ambient sound is larger than 10 decibels, then the correction must be set to 0.
- ii) If the difference between the raw 1-hour  $L_{eq}$  and the long-term background ambient sound difference is less than 3 decibels, then the *j*th frequency-band level,  $L_{eqj}$ , must be set equal to 0.
- iii) If the difference between the raw 1-hour  $L_{eq}$  and the long-term background ambient sound is between 3 and 10 decibels, then the correction given in Table 1 below must be subtracted from the raw, 1-hour property-line-noise-source  $L_{eqi}$

Table 1
Corrections in dB for long-term
background ambient sound

Correction
(dB)
3
2.3
1.7
1.3
1.0
0.7
0.6
0.5

- B) The long-term background ambient corrected level must be the property-line-noise-source  $L_{eqi}$  reported for the jth frequency band.
- b) Obtaining the background ambient sound level:
  - 1) The background ambient must be measured for the purposes of this Section during a 10-minute interval.
  - 2) Long-term background ambient measurement procedures are similar to procedures to measure the property-line-noise-source itself. Eliminating short-term background ambient transient sounds from the measurement of average long-term background ambient sound proceeds in a manner similar to the measurement of the property-line-noise-source emissions themselves. The two methods for measurement are: to divide the 10minute measurement into short blocks of data, or inhibit data collection when short-term background transient sounds occur. The same method

must be used for gathering both the property-line-noise-source data and the corresponding long-term background ambient data. The measurement procedures for each method are given in subsections (b)(3), (b)(4) and (b)(5) of this Section:

- 3) Using Small Blocks of Data
  - A) The 10-minute measurement of long-term background ambient must be divided into short measurement blocks. The duration of these blocks must remain constant during the entire measurement, both when measuring the long-term background ambient and when measuring the property-line-noise-source. The duration of this measurement block in seconds, T, must divide exactly (without remainder) into 600 and must be neither greater than 100 seconds nor less than 10 seconds.
  - B) All data for any measurement block corrupted by one or more short-term ambient transient sounds must be discarded. The number of remaining, non-discarded measurement blocks is designated N<sub>BA</sub>, where *BA* stands for background ambient.
  - C) The  $L_{eq}$  for each octave-(or 1/3 octave-) band are time-averaged on an energy basis over the N<sub>BA</sub> remaining measurement blocks to obtain average long-term background ambient  $L_{eq}$  per band. Equation 1 (see subsection (a) (1) (E) of this Section) is used for this calculation with N<sub>BA</sub> replacing N<sub>PLNS</sub> as the number of elemental blocks to be summed. The total duration of the measurement in seconds, T<sub>BA</sub>, is given by N<sub>BA</sub> multiplied by T.

## 4) Continuous Data Collection

- A) The measuring instrument must be adjusted according to manufacturer's instructions to continuously measure sound pressure and accumulate (i.e. record) L<sub>eq</sub>. A switch must be available to inhibit data collection whenever a short-term background transient sound occurs, (and on some instruments, a button may be available to delete the most recent, previous data).
- B) The switches or buttons must be used to prevent short-term background ambient sounds from corrupting the data.
- C) Data collection must proceed for 10 minutes. The result is the 10minute, long-term background ambient  $L_{eq}$  in each band.
- D)  $T_{BA}$  is the number of non-inhibited measurement seconds during the 10-minute measurement period.

- 5) The minimum duration, for either method,  $T_{BA}$  must be no less than 150 seconds. If  $T_{BA}$  is less than 150 seconds, then the measurement of the long-term background ambient must continue beyond the original 10 minutes and until  $T_{BA}$  for the total long-term background ambient measurement is greater than or equal to 150 seconds.
- 6) Measurement Alternatives. The long-term background ambient noise should ideally be measured at the potential violation site just before measurement of the property-line-noise-source emissions. However, turning off the property-line-noise-source may not always be possible. The following are a hierarchical order of five procedures for obtaining the longterm background ambient noise. The first four procedures involve direct measurement; the fifth procedure provides for use of tables of values obtained from extensive measurements. These are not equivalent procedures but are ordered from what is considered to be the most accurate to what is considered to be the least accurate procedure.
  - A) Direct Measurement Procedure –1: With the property-line-noisesource (PLNS) turned off, measure the long-term background ambient noise within the hour before or within the hour after measurement of the PLNS emissions at the location where the PLNS measurements are being taken and with the measurement equipment used for the PLNS measurements.
  - B) Direct Measurement Procedure-2: With the PLNS turned off, measure the long-term background ambient during a similar time period in terms of background ambient sound level, within one to 24 hours before, or within one to 24 hours after measurement of the PLNS emissions at the location where the PLNS measurements are being taken and with the measurement equipment used for the PLNS.
  - C) Direct Measurement Procedure- 3: With the PLNS turned off, measure the long-term background ambient during some other acoustically similar period within one to 30 days before, or within one to 30 days after measurement of the PLNS emissions. This alternate long-term background ambient measurement time might be a Saturday night or anytime during a Sunday or holiday. The measurements would be made at the location where the PLNS measurements are being taken and with the measurement equipment (or like equipment) used for the PLNS measurement.
  - D) Direct Measurement Procedure-4: With the PLNS turned off, measure the long-term background ambient noise during some other acoustically similar period within 30 to 90 days before, or

within 30 to 90 days after measurement of the PLNS emissions. These measurements would be made at the location where the PLNS measurements are being taken and with the measurement equipment (or like equipment) used for the property-line-noisesource measurements.

- E) Tables of Long-Term Background Ambient Noise. Where none of the alternatives can be used, use the applicable long-term background ambient data taken from Tables A through D in Appendix A of this Part. These tables are organized by predominant land use and time of day (daytime or nighttime). There are separate tables for octave- and 1/3- octave-bands. The background environments presented in the table are based on extensive measurements conducted in the Chicago area and are divided into the five categories given below in accordance with G.L. Bonvallet, "Levels and Spectra of Traffic, Industrial, and Residential Area Noise," Journal of the Acoustical Society of America, 23 (4), pp 435-439, July 1951; and Dwight E. Bishop and Paul D. Schomer, Handbook of Acoustical Measurements and Noise Control, Chapter 50, Community Noise Measurements, 3rd Edition, Cyril M Harris, Editor, McGraw-Hill Book Co., New York (1991).
  - i) Category 1: Noisy Commercial and Industrial Areas. Very heavy traffic conditions, such as in busy downtown commercial areas, at intersections of mass transportation and other vehicles, including the Chicago Transit Authority trains, heavy motor trucks and other heavy traffic, and street corners where motor buses and heavy trucks accelerate.
  - Category 2: Moderate Commercial and Industrial Areas, and Noisy Residential Areas. Heavy traffic areas with conditions similar to subsection (b)(6)(E)(i) of this Section but with somewhat less traffic, routes of relatively heavy or fast automobile traffic but where heavy truck traffic is not extremely dense, and motor bus routes.
  - iii) Category 3: Quiet Commercial and Industrial Areas, and Moderate Residential Areas. Light traffic conditions where no mass transportation vehicles and relatively few automobiles and trucks pass, and where these vehicles generally travel at low speeds. Residential areas and commercial streets and intersections with little traffic comprise this category.

- iv) Category 4: Quiet Residential Areas. These areas are similar to Category 3 in subsection (b)(6)(E)(iii) of this Section but, for this group, the background is either distant traffic or is unidentifiable.
- v) Category 5: Very Quiet, Sparse Suburban or Rural Areas. These areas are similar to Category 4 subsection (b)(6)(E)(iv) of this Section but are usually in unincorporated areas and, for this group, there are few if any near neighbors.

Section 910.107 Measurement Techniques for Highly-Impulsive Sound Under 35 Ill. Adm. Code 901.104.

- a) Measurement of highly-impulsive sound under 35 Ill. Adm. Code 901.104 can be made in two distinct and equally valid ways, namely the general method and the controlled test method.
- b) General Method: The general method is to measure the 1-hour, A-weighted  $L_{eq}$  (not the octave- or 1/3 octave-band levels) using essentially one of the two procedures described in Sections 910.105 and 910.106.
  - 1) The procedure using small blocks of time to collect data is as follows:
    - A) The hour must be divided into small blocks and the A-weighted  $L_{eq}$  must be measured for each of these small blocks of time.  $L_{eq}$  must be measured for the entire hour but data collection must be inhibited whenever a short-term background transient sound occurs.
    - B) The duration of each block must be held constant during the hour. This duration in seconds must divide exactly into 900 and must be neither greater than 100 seconds nor less than 10 seconds.
    - C) The data for any block corrupted by one or more short-term background ambient sounds must be discarded.
  - 2) The continuous data collection procedure is as follows:
    - A)  $L_{eq}$  must be measured for the entire hour.
    - B) Data collection must be inhibited whenever a short-term background transient sound occurs.
  - 3) Correction for the long-term background ambient must be accomplished using all of the other procedures and requirements enumerated in Sections

910.105 and 910.106. These requirements must be complied with to determine an A-weighted, 1-hour, background-ambient-corrected  $L_{eq}$  for the highly impulsive property-line-noise-source under study.

- c) Controlled Test Method: For this method, the following procedures must be used:
  - 1) General Measurement Description
    - A) The sound exposure per impulse from each separate individual impulsive source is measured.
    - B) The total sound exposure per hour from each source is the sound exposure per event multiplied by the number of events per hour.
    - C) The grand total sound exposure (SE) per hour is the sum of the sound exposures per hour from each of the separate individual sources.
    - D) The reported SEL is obtained from the grand total sound exposure (SE) per hour using the following:

$SEL = 10 \log (SE) + 94$	[Equation 7]
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E) The equivalent level, L<sub>eq</sub> corresponding to a SEL measured or predicted for one hour (3600 seconds) is given by:

$L_{eq} = SEL - 10 \log (3600)$	[Equation 8]
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- 2) Determination of sound exposure per event must be as follows:
  - A) The sound exposure per event from each, separate, individual source must be determined by measuring the total A-weighted sound exposure for about 10 repetitions of this source. This set of about 10 measurements may be performed continuously over a short period of time, or this set of measurements may be performed over a discontinuous set of measurement periods. In either case, the total measurement duration must be less than 100 seconds.
  - B) These separate, individual property-line-noise- source controlled measurements must be free of any short-term ambient sounds. If any short-term background transient sounds occur during these measurements, then the measurement must be repeated until measurement data, free of any corrupting short-term background ambient sounds, are obtained.

- C) The total measured A-weighted sound exposure for this group of about 10 repetitions must be corrected for long-term background ambient by subtracting the A-weighted long-term background ambient sound exposure. The sound exposure value subtracted must be the long-term A-weighted background ambient sound exposure per second multiplied by the number of seconds used to measure the several source repetitions.
- D) The reported Source: A-weighted sound exposure per event must be the total corrected sound exposure divided by the number of source repetitions measured.
- E) The background ambient must be measured for a short time, at least 30 seconds as near in time to the source measurements as possible, but within ½ hour. The total A-weighted long-term background ambient sound exposure per second is the total measured long-term background ambient sound exposure divided by the number of seconds of background ambient measurement.
- F) There must be no short-term background ambient sounds present during the measurement of the long-term background ambient. If any short-term background transient sounds occur during these measurements, then the measurements must be repeated until longterm background ambient measurement data free of any corrupting short-term background ambient sound are obtained.

910. APPENDIX A Tables of Long-Term Background Ambient Noise

910.TABLE A. Daytime long-term background ambient  $L_{eq}$  levels in decibels by land use categories and 1/3 octave-band level

		Backgro	ound Catego	ry	
Octave-Band Center Frequency (Hz)	1	2	3	4	5
20	63	56	48	42	36
25	64	57	49	43	37
31	65	58	50	44	38
40	65	58	51	44	38
50	66	59	51	45	39
63	66	59	52	46	40
80	67	60	52	46	40
100	68	60	53	47	41
125	67	59	52	46	40

160	66	59	52	46	40
200	66	58	51	45	39
250	65	58	50	44	38
315	64	57	49	43	37
400	63	55	48	42	36
500	62	54	46	40	34
630	61	53	44	38	32
800	60	51	42	36	30
1000	58	49	40	34	28
1250	56	47	38	32	26
1600	54	45	36	30	24
2000	52	43	33	28	21
2500	50	41	30	25	19
3150	49	39	28	23	17
4000	48	37	25	20	15
5000	46	35	23	18	13
6300	44	33	21	16	10
8000	43	31	19	14	8
10,000	41	29	17	12	6
12,500	39	27	15	10	4

910. APPENDIX A Tables of Long-Term Background Ambient Noise 910. TABLE B. Nighttime long-term background ambient  $L_{eq}$  levels in decibels by land use categories and 1/3 octave-band level

		Backgro	ound Catego	ry	
Octave-Band Center Frequency (Hz)	1	2	3	4	5
20	53	48	43	37	31
25	54	49	44	38	32
31	55	50	45	39	33
40	55	50	46	39	33
50	56	51	46	40	34
63	56	51	47	41	35
80	57	52	47	41	35
100	58	52	48	42	36
125	57	51	47	41	35

160	56	51	47	41	35
200	56	50	46	40	34
250	55	50	45	39	33
315	54	49	44	38	32
400	53	47	43	37	31
500	52	46	41	35	29
(20)	<b>5</b> 1	45	20	22	27
630	51	45	39	33	27
800	50	43	37	31	25
1000	48	41	35	29	23
1250	10	20	22	27	21
1250	46	39	33	27	21
1600	44	37	31	25	19
2000	42	35	28	23	16
2500	40	33	25	20	14
3150	39	31	23	18	14
4000	38	29	20	15	10
5000	36	27	18	13	8
6300	34	25	16	11	5
8000	33	23	14	9	3
10,000	31	21	12	7	1
12,500	29	19	10	2	

910. APPENDIX A Tables of Long-Term Background Ambient Noise

910.TABLE C. Daytime long-term background ambient  $L_{eq}$  levels in decibels by land use categories and octave-band level

		Backgro	ound Catego	ry	
Octave-Band Center Frequency (Hz)	1	2	3	4	5
31	70	63	55	49	43
63	71	64	57	51	45
125	72	64	57	51	45
250	70	63	55	49	43
500	67	59	51	45	39
1000	63	54	45	39	33
2000	57	48	38	33	26
4000	53	42	30	25	20
8000	48	36	24	19	13

Background Category

910. APPENDIX A Tables of Long-term Background Ambient Noise

910.TABLE D. Nighttime long-term background ambient  $L_{eq}$  levels in decibels by land use categories and octave-band level

		Backgro	ound Catego	ry	
Octave-Band Center Frequency (Hz)	1	2	3	4	5
31	60	55	50	44	38
63	61	56	52	46	40
125	62	56	52	46	40
250	60	55	50	44	38
500	57	51	46	40	34
1000	53	46	40	34	28
2000	47	40	33	28	21
4000	43	34	25	20	15
8000	38	28	19	14	8

## IT IS SO ORDERED.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, certify that the Board adopted the above opinion and order on March 2, 2006, by a vote of 4-0.

Dretty In. Sun

Dorothy M. Gunn, Clerk Illinois Pollution Control Board