ILLINOIS POLLUTION CONTROL BOARD February 20, 2003

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

Proposed Rule. Proposal for Public Comment.

ORDER OF THE BOARD (by M.E. Tristano, G.T. Girard, T. E. Johnson):

The Board opened this rulemaking to propose updated regulations governing noise found in 35 III. Adm. Code Subtitle H, pursuant to Sections 27 and 28 of the Illinois Environmental Protection Act, (415 ILCS 5/27-5/28 (2002) and 35 III. Adm. Code Part 102 Subpart B. Many of the sound measurement definitions and techniques in the Board's current rules do not reflect present scientific standards. The instant rulemaking is closely associated with recently opened docket Noise Rule Update Amendments to 35 III. Adm. Code 900 and 903, R03-08 (R03-8) that defines acoustical terms, pollution sources and sound measurement procedures. R03-8 is also based on updated science, including pertinent American National Standards Institute updates from 1998-2001, and other current scientific publications. Noise Rule Update Amendments to 35 III. Adm. Code 900 and 903, R03-08 (Dec. 19, 2003) *slip op* at 2.

The instant proposal revises outdated numerical sound emission standards for property line noise sources found at 35 Ill. Adm. Code Parts 901. In addition, the proposal 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.

BACKGROUND

The Board's noise rules have not been updated since 1983 and 1987. In 1990, the Department of Energy and Natural Resource¹ (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.

¹ In 1995, the Department of Natural Resources Act P.A. 89-50 (eff. July 1, 1995) (20 ILCS 5/801 *et seq.* (2002) merged DENR into the Department of Natural Resources.

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, Illinois, in which testimony was presented. 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 found at 35 Ill. Adm. Code 951 into Board regulations at 35 Ill. Adm. Code Part 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.</u>

The need to update the Board's noise rules to conform to current scientific procedures has become more apparent during the past ten years. The Board has identified necessary improvements in several areas. In the instant rulemaking, the Board proposes changes in Parts 901 and 910. In Part 901, the Board proposes to replace the references to the Standard Land Use Coding System (SLUCM) codes with the more appropriate Land-Use Based Classification System. New rules in Part 910 are proposed to incorporate Agency noise measurement procedures found at 35 Ill. Adm. Code 951. In the companion rulemaking, R03-08, which went to first notice on December 19, 2002, the Board proposed changes in Parts 900 and 903 of the noise rules. In Part 900, definitions and technical references have been updated. Part 903 needs to be repealed because the Illinois legislature has removed the authority for the rules.

DISCUSSION

The Board will explain each section of the rule in the following discussion.

35 Ill. Adm. Code 910: Measurement Procedures for the Enforcement of 35 Ill. Adm. Code 900 & 901

The proposed 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. As noted above, the Board has made a number of substantive changes to the Agency's measurement protocols to reflect the recommendations of the DENR'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 that in Part 951, except for the updated references to the ANSI (American National Standards Institute), 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 the proposed 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 Department'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 as the "General Method" at Section 901.107(b), provides for A-weighted $L_{\rm eq}$ 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 proposed protocols are based on the Department's noise study.

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

The proposed changes to Part 901 update 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 proposed 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 proposed to Section 901.101, the instant proposal also updates 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 (www.planning.org/LBCS).

Section 901.104 Highly-Impulsive Sound

The proposed 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 Department'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. A more detailed discussion of the proposed revisions may be found in the proposal.

Section 901.109 Highly-Impulsive Sound From Explosive Blasting

Based on the recommendations of the Department's noise study, the Board has revised the peak level limits to be consistent with the U.S. Bureau of Mines requirements. The proposal also specifies lower limits for multiple events in one day. In addition, the instant proposal clarifies when the daytime and nighttime hours begin and end. The Board has also changed the reference to SLUCM codes to LBCS codes.

CONCLUSION

The Board will proceed to public notice with the following proposal. The Board will hold hearings and accept comment on the proposal prior to determining whether or not to proceed to first notice.

To facilitate understanding of the possible modifications to Ill. Adm. Code 35 Part 951 suggested as part of this Rulemaking, the Board edited that document using the traditional strike through and underlining approach to new language. The Board encourages interested persons to contact the hearing officer to be added to the notice list.

ORDER

The Board adopts this proposal for public comment. The Board intends to conduct two pre-first notice hearings on the proposal, one in Chicago and one in Springfield.

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	
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901.119	Clifford-Jacobs Operational Level
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901.121	Vaughan & Bushnell Operational Level
APPENDIX A	Old Rule Numbers Referenced

APPENDIX A Old Rule Numbers Referenced APPENDIX B Standard Land Use Coding System

AUTHORITY: Implementing Section 25 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1985, ch. 111 1/2 pars. 1025 and 1027).

SOURCE: Originally filed as Part 2 of Chapter 8: Noise Pollution, effective August 10, 1973; amended at 2 Ill. Reg. 27, p. 223, effective June 26, 1978; amended at 5 Ill. Reg. 6371, effective June 1, 1981; amended at 5 Ill. Reg. 8533, effective August 10, 1981; amended at 6 Ill. Reg. 10960, effective September 1, 1982; codified at 7 Ill. Reg. 13646; amended at 7 Ill. Reg. 14519, effective October 17, 1983; amended in R83-35 at 8 Ill. Reg. 18893, effective September 25, 1984; amended in R83-33, 26, 29, 30 and R83-34 at 9 Ill. 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 Ill. Reg. 7147; amended in R83-25, 31 and 32 at 9 Ill. Reg. 7149, effective May 7, 1985; amended in R83-7 at 11

Ill. Reg.	3136, effective January 28, 1987; amended in R03-9 at	see Reg,
effective		

Section 901.101 Classification of Land According to Use

- a) Class A land will shall include all land used as specified by Land-Based Classification Standard (LBCS) Codes 1000 through 1340, 2400 through 2455, 5200 through 5230, 5500, 6000 through 6145, 6222, 6500 through 6530,6568 through 6600. SLUCM Codes 110 through 190 inclusive, 651, 674, 681 through 683 inclusive, 691, 711, 762, 7121, 7122, 7123 and 921.
- Class B land will shall include all land used as specified by Land-Based Classification Standards (LBCS) Codes 2000 through 2336, 2500 through 2720, 3500 through 3600, 4000, 4220 through 4243, 5000 through 5160, 5300 through 5390, 5400, 6147, 6200 through 6221, 6300 through 6320, 6400 through 6430, 6560 through 6567, 6600 through 6830, 7000 through 7380. SLUCM Codes 397, 471 through 479 inclusive, 511 through 599 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.
- Class C land will shall include all land used as specified by Land-Based Classification Standards (LBCS) Codes 3000 through 3440, 4120 through 4180, 4210 through 4212, 4300 through 4347, 7400 through 7450, 8000 through 8500, and 9000 through 9520. SLUCM Codes 211 through 299 inclusive, 311 through 396 inclusive, 399, 411 except 4111, 412 except 4121, 421, 422, 429, 441, 449, 460, 481 through 499 inclusive, 7223 and 7311 used for automobile and motorcycle racing, and 811 through 890 inclusive.
- d) A parcel or tract of land used as specified by <u>Land-Based Classification Standards (LBCS) SLUCM</u> Code <u>9000</u>, <u>9400</u>, or <u>5500</u> 81, 83, 91, or <u>922</u>, 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>must shall</u> retain such B or C classification until the municipal government removes the classification adopted by it.

Section 901.102 Sound Emitted to Class A Land

a) Except as elsewhere in this Part provided, 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.

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

Octave Band Center Frequency (Hertz)	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 elsewhere in this Part provided, 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.

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

Octave Band Center Frequency (Hertz)	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

Section 901.103 Sound Emitted to Class B Land

Except as elsewhere in this Part provided, 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 Center
Frequency (Hertz)

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

Class C Land

Class B Land

Class A Land

	Class C Land	Class B Lallu	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

Section 901.104 Highly - Impulsive Sound

Except as elsewhere in this Part provided, no person shall cause or allow the emission of highly-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 1-hour A-weighted equivalent sound levels (1-hr Leq), measured with fast dynamic characteristic, specified in the following table when measured 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 Allowable <u>1-Hour</u> A-weighted Sound Levels <u>(Leq)</u> in Decibels of <u>Highly-</u>Impulsive Sound Emitted to Receiving Class A or B Land

	Class B Land	Daytime	Class A Land Nighttime
Class A Land Class B Land	50- <u>47</u> 57- <u>54</u>	50- <u>47</u> 50- <u>47</u>	45— <u>37</u> 45— <u>37</u>
Class C Land	61 <u>58</u>	56 <u>53</u>	46 43

(Source: Amended at 11 Ill. Reg. 3136, effective January 28, 1987)

Section 901.105 Impact Forging Operations

- a) For purposes of this rule only the following are applicable:
 - 1) Daytime hours shall mean any continuous 16 hour period between 6:00 a.m. and 11:00 p.m. local time; and
 - 2) Nighttime hours shall mean those 8 hours between 10:00 p.m. and 7:00 a.m. which are not part of the 16 continuous daytime hours.
 - 3) The reference time for Leq, 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-noisesource 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 Emitted To Class A or B Land from New Impact Forging Operation

Class B Land Class A Land

Daytime Nighttime 59.5Leq 53.5 Leq 48.5 Leq

c) Limitations for Existing Impact Forging Operation

No existing impact forging operation shall cause or allow the emission of <a href="https://histor.com/histor.c

operation is granted a permanent site specific allowable operational level pursuant to subparagraph (d).

Allowable <u>Highly-</u> Impulsive Sound Levels Emitted To Class A or B Land from Existing Impact Forging Operation

Class B Land Class A Land

Daytime Nighttime 64.5Leq 58.5Leq 53.5 Leq

- d) Site Specific Allowable Operational Level for Existing Impact Forging Operation
 - 1) An existing impact forging operation which does not comply with subparagraph (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 abated 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 subparagraph (c) emitted by the petitioner into the community, in 5 decibel increments measured in Leq, shown on the map of the community.
 - E) The number of residences exposed to sound levels in excess of those permitted by subparagraph (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 shall remain 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: Section 901.105(f)(1), (2), and (3) recodified to Sections 901.110, 901.111 and 901.112 at 9 Ill. Reg. 7147)

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 one-third 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 table for sound emitted from any existing property-line noise source to receiving Class A land, for both daytime and nighttime operations shall be found in Section 901.102(a).

Section 901.107 Exceptions

- a) Sections 901.102 through 901.106 inclusive shall not apply to sound emitted from land used as specified by SLUCM Codes 110, 140, 190, 691, and 742 except 7424 and 7425.
- b) Sections 901.102 through 901.106 inclusive shall not apply to sound emitted from emergency warning devices and unregulated safety relief valves.
- c) Sections 901.102 through 901.106 inclusive shall not apply to sound emitted from lawn care maintenance equipment and agricultural field machinery used during daytime hours. For the purposes of this subsection, grain dryers operated off the farm shall not be considered agricultural field machinery.
- d) Sections 901.102 through 901.106 inclusive shall not apply to sound emitted from equipment being used for construction.
- e) Section 901.102(b) shall not apply to sound emitted from existing property-line-noise-sources during nighttime hours, provided, however, that sound emitted from such existing property-line-noise-sources shall be governed during nighttime hours by the limits specified in Section 901.102.
- f) Sections 901.102 through 901.106 inclusive shall 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 shall not apply to sound emitted from land used as specified by 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 subparagraph shall not apply to any automobile and motorcycle race, contest, rally, time trial, test run or similar operation of any self-propelled 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 used as specified by SLUCM codes 852 and 854, but such operations shall be governed by Section 901.109..
- i) Sections 901.102 through 901.106 inclusive, shall not apply to sound emitted from snowmobiles.

(Source: Amended at 6 Ill. Reg. 10960, effective September 1, 1982)

Section 901.108 Compliance Dates for Part 901

- a) Except as provided in subparagraphs (g), (i), and (j), every owner or operator of a new property-line-noise-source shall 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 shall 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 shall comply with the standards and limitations of this Part on and after February 10, 1975.
- d) Except as provided in subparagraphs (g) and (h), every owner or operator of an existing property-line-noise-source required to comply with Section 901.104 shall 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 shall comply with the standards and limitations of this Part on and after February 10, 1975.

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

(Source: Amended at 6 Ill. Reg. 10960, effective September 1, 1982)

Section 901.109 Highly-Impulsive Sound From Explosive Blasting

a) During the daytime hours, that cover the period after sunrise and before sunset, no person shall cause or allow any explosive blasting conducted on any Class C land used as specified by SLUCM Codes 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 Exposure Levels in Decibels of Explosive
Blasting Sounds Emitted to Receiving
Class A or B Land from Any Class C Land
Used as Specified by LBCS SLUCM-Code8300 through 8500 852 or 854

Receiving Class A Land 109–107

Receiving Class B Land 114–112

The allowable sound exposure level limits in the above table shall 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	Receiving Class A Land	Receiving Class B Land
Measuring System for Flat	(dB)	(dB)
Response, a Variation from		
Linear Response of \pm or -		
3dB (Hz)		
< o 0.1	135	140
< 2.0 but greater than 0.1	132	137
\leq 6.0 but greater than 2.0	130	135

The allowable equivalent maximum 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 period defined by (1) the beginning of the nighttime hours (10:00 pm) or sunset, whichever occurs earlier and (2) ending of the

nighttime hours (7:00 am)or, after sunset and before sunrise, whichever occurs later, the allowable sound level limits in subparagraphs (a) and (b) shall be reduced by 10 decibles 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 used as specified by SLUCM code 852 or 854 shall 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 6 Ill. Reg. 10960, effective September 1, 1982)

Section 901.110 Amforge Operational Level

Amforge Division of Rockwell International located at 119th Street, Chicago, Illinois 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) Sound 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: Recodified from Section 901.105(f)(1) at 9 III. Reg. 7147)

Section 901.111 Modern Drop Forge Operational Level

Modern Drop Forge Company located at 139th Street and Western Avenue in Blue Island, Illinois shall:

- 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: Recodified from Section 901.105(f) (2) at 9 Ill. Reg. 7147)

Section 901.112 Wyman-Gordon Operational Level

Wyman-Gordon Company located at 147th Street and Wood Street, Harvey, Illinois shall:

- a) Operate only six forging hammer units, each consisting of two hammers, after January 1, 1984.
- b) Operate forging units in Buildings 6 and 7, located at the southern perimeter of the Wyman-Gordon Company's Harvey facility, to produce no more than 20% of the total annual hammer production at the Harvey facility;
- c) Operate forging units between the hours of 6:00 a.m. and midnight; limit forging operations on Saturdays and Sundays to no more than half a year's total; and limit forging operations during the hours of 6:00 a.m. and 7:00 a.m. and 11:00 p.m. and midnight to less than 2% of the Harvey's facility total annual hammer production; and
- d) Consolidate the two existing steel inventory yards at the one located north of Building 75 no later than January 1, 1984.

(Source: Recodified from Section 901.105(f)(3) at 9 Ill. Reg. 7147)

Section 901.113 Wagner Casting Site-Specific Operational Level

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: Added at 8 Ill. Reg. 18893, effective September 2, 1984).

Section 901.114 Moline Forge Operational Level

Moline Forge and future owners of the forging facility located at 4101 Fourth Avenue, Moline, Illinois, shall comply with the following site-specific operational level:

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

b) Operate its forging hammers only between the hours of 6:00 a.m. until 11:00 p.m. Monday through Friday and from 6:00 a.m. until 3:30 p.m. on Saturdays.

(Source: Added at 9 Ill. Reg. 1405, effective January 17, 1985)

Section 901.115 Cornell Forge Hampshire Division Site-Specific Operational Level

Cornell Forge, Hampshire Division and future owners of the forging facility located at Walker Road, Hampshire, Illinois, shall comply with the following site-specific operational level:

- a) Operate no more than seven forging hammers at any one time; and
- b) Operate its forging hammers only on Monday through Saturday between the hours of 7:00 a.m. to 3:30 p.m. with an additional shift that may run from either 3:30 p.m. to 12:00 p.m. or from 10:30 p.m. to 7:00 a.m.

(Source: Added at 9 Ill. Reg. 1405, effective January 17, 1985)

Section 901.116 Forgings and Stampings, Inc. Operational Level

Forgings and Stampings, Inc. and future owners of the forging facility located at 1025 23rd Avenue, Rockford, Illinois, shall comply with the following site-specific operational level:

- a) Operate no more than six 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 Friday and 6:00 a.m. and 2:00 p.m. on Saturday.

(Source: Added at 9 Ill. Reg. 1405, effective January 17, 1985)

Section 901.117 Rockford Drop Forge Company Operational Level

Rockford Drop Forge Company and future owners of the forging facility located at 2031 Ninth Street, Rockford, Illinois, shall comply with the following site-specific operational level:

- a) Operate no more than twelve forging hammers at any one time; and
- b) Operate its forging hammers only between the hours of 6:00 a.m. and 10:00 p.m. Monday through Saturday.

(Source: Added at 9 Ill. Reg. 1405, effective January 17, 1985)

Section 901.118 Atlas Forgings Division of Scot Forge Operational Level

Atlas Forge Division of Scot Forge and future owners of the forging facility located at 1501 South 55th Court, Cicero, Illinois, shall comply with the following site-specific operational level:

- a) Operate no more than three 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: Added at 9 Ill. Reg. 1405, effective January 17, 1985)

Section 901.119 Clifford-Jacobs Operational Level

Clifford-Jacobs Forging Company and future owners of the forging facility located at North Market Street, Champaign, Illinois, shall comply with the following site-specific operational level:

- a) Operate no more than fourteen hammers at any one time; and
- b) Operate its forging hammers only between the hours of 6:00 a.m. and 11:00 p.m. Monday through Saturday.

(Source: Added at 9 Ill. Reg. 7149, effective May 7, 1985)

Section 901.120 C.S. Norcross Operational Level

C.S. Norcross & Sons Company and future owners of the forging facility located at the intersection of Davis and Dean Streets, Bushnell, Illinois, shall comply with the following site-specific operational level:

- a) Operate no more than twelve forging hammers at any one time; and
- b) Operate its forging hammers only between the hours of 7:00 a.m. and 1:00 a.m. Monday through Saturday.

(Source: Added at 9 Ill. Reg. 7149, effective May 7, 1985)

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, shall 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 p.m. Monday through Saturday.

(Source: Added at 9 III. Reg. 7149, effective May 7, 1985)

Section 901.APPENDIX A Old Rule Numbers Referenced

The following table is provided to aid in referencing old Board rule numbers to section numbers pursuant to codification.

Old Part 2 of Chapter 8	35 Ill. Adm. Code Part 901
Rule 201	Section 901.101
Rule 202	Section 901.102(a)
Rule 203	Section 901.102(b)
Rule 204	Section 901.103
Rule 205	Repealed
Rule 205 (was old 206)	Section 901.104
Rule 206 (new rule)	Section 901.105
Rule 207	Section 901.106
Rule 208	Section 901.107
Rule 209	Section 901.108
Rule 210	Section 901.109
Added in Codification	Appendix A
Unnumbered Appendix to Chapter 8, Part 2	Appendix B

Section 901. APPENDIX B Standard Land Use Coding System

APPENDIX B

STANDARD LAND USE CODING SYSTEM

U.S. Department of Transportation

Federal Highway Administration Reprinted 1969

$\begin{array}{c} \textbf{B. A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES -- TWO-, THREE-, AND FOUR-DIGIT \\ \textbf{LEVELS} \end{array}$

——————————————————————————————————————	Category	Code	Category	Code	Category	SIC Reference [‡] -	-Land* -Class
— 11 — Ho	usehold units.	110	Household units.	1100	Household units. ²		A
— 12 — Gre	oup quarters.	121	Rooming and boarding houses.	1210	Rooming and boarding houses. ³	702	1
		122	Membership lodgings.	1221 1229	Fraternity and sorority houses. Other membership lodgings, NEC. ⁵	—— ⁴ Incl. 704 ——Incl. 704	

	123	Residence halls or dormitories.	1231 1232 1239	Nurses' homes. College dormitories. Other residence halls or dormitories, NEC.	
	124	Retirement homes and orphanages.	1241 1242	Retirement homes. Orphanages.	
	125	Religious quarters.	1251 1252 1253 1259	Convents. Monasteries. Rectories. Other religious quarters, NEC.	
	129	Other group quarters, NEC.	1290	Other group quarters, NEC.	
13 Residential hotels.	130	Residential hotels.	1300	Residential hotels. ⁶	Incl. 7011
14 Mobile home parks or courts.	140	Mobile home parks or courts.	1400	Mobile home parks or courts.	7031
15 Transient lodgings.	151	Hotels, tourist courts, and motels.	1510	Hotels, tourist courts, and motels.	7011
	159	Other transient lodgings, NEC.	1590	Other transient lodgings, NEC.7	
19 Other residential, NEC.	190	Other residential, NEC.	1900	Other residential, NEC.	A

FOOTNOTES

-¹The SIC codes are listed for purposes of reference. They 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.

-2Code 1100—"Household units" are defined as a house, and apartment, or other group of rooms, or a single room that is intended for occupancy as separate living quarters. Occupants of "Household units" do not live and eat with other persons in the structure (such as in a boarding house), and there is either (1) direct access from the outside or through a common hall, or (2) there is a kitchen or cooking equipment for the exclusive use of the occupants of the unit. The occupants may be a family, a group of unrelated persons, or a person living alone. Mobile homes not in "Mobile home parks or courts" (code 14), but resting on a permanent type of foundation (e.g., a brick or concrete block foundation) are included as well as units that are vacant or that are used on a seasonal basis. Farm homes are also in cluded under "household units" and should be identified separately from the remainder of the farm which is coded under "Agriculture," code 81.

*"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.)

-3 Code 1210 — "Rooming and boarding houses" are those that have 5 or more persons renting rooms, with or without board, and not related to the had or person in charge. Where there are less than 5 roomers, the total quarters are considered as one "Household unit" and is coded 1100.

⁻⁴"Incl. 7041" is an abbreviation which indicates that the 4-digit land use activity category is only one of several categories of establishments that are included under SIC code 7041.

⁵"NEC" is an abbreviation for "not elsewhere coded."

—6Code 1300—"Residential hotels" are those that have 75 percent or more of the available accommodations occupied by permanent guests (i.e., persons who reside more than 30 days). Hotels with less than 75 percent are included under code 15, "Transient lodgings."

⁻⁷Code 1590—"Other transient lodgings, NEC" includes such establishments as the YMCA, YWCA, and YMHA when 50 percent or more of the floor area is devoted to lodging and associated activities and when less than 75 percent of the accommodations are occupied by permanent guests. If 75 percent or more of the guests are permanent, use code 1300. If 50 percent or more of the floor area is devoted to recreational activity, use code 7424, "Recreation centers (general)."

Code	Catagorn	Codo	Catagoriu	Codo	Catagorni	SIC Poforono o [‡]
Code	Category	Code	Category	 Code	Category	Reference *
21	Food and kindred prod-	211	Meat products manufacturing.	2111	Meat packing manufacturing.	2011
	ucts manufacturing.	211	weat products manufacturing.	2111	Sausages and other prepared meat	2013
	ucts manufacturing.			2112	products manufacturing.	2013
				2113	Poultry and small game dressing	
and 2015	5			2113	Tourtry and sman game dressing	
					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
					— manufacturing.	
				2125	Fluid milk processing.	2026
		213	Canning and preserving of fruits,	2131	Canning and curing seafoods.	2031
		213	vegetables, and seafoods.		Canning specialty foods.	2032
			vegetables, and scaroods.		Canning fruits, vegetables,	2032
preserves	s, 2033					
					jams, and jellies.	
				2134		2034
					vegetables.	
				2135	Pickling fruits and vegetables;	
vege	2035				table sauces and seasonings; salad	
				2126	dressings manufacturing.	2026
				2130	Fresh or frozen packaged fish and	2036
				2127	— seafoods. - Frozen fruits, fruit juices,	
vegetable	25,	2037		2137	Trozen runs, truit juices;	
	,				and specialities.	
		214	Grain mill products manufactur	2141	Flour and other grain mill products.	2041
		217	•		Preparing feeds for animals and	2041
fowls.	-2042		ing.	2142	Freparing reeds for animals and	
			-		Cereal preparations.	2043
				2144	Rice milling.	2044
				21/15	Blending and preparing flour.	2045
				2143		
				2146	Wet corn milling.	2046
		215	Bakery products manufacturing.	2146	Wet corn milling. Bakery products manufacturing.	
		215 216	Bakery products manufacturing. Sugar manufacturing.	2146 2150	Wet corn milling.	2046
			Sugar-manufacturing.	2146 2150 2160	Wet corn milling. Bakery products—manufacturing. Sugar—manufacturing.	2046 205
prod-	- 2071	215 216 217		2146 2150 2160	Wet corn milling. Bakery products—manufacturing.	2046 205
prod-	-2071		Sugar-manufacturing.	2146 2150 2160	Wet corn milling. Bakery products—manufacturing. Sugar—manufacturing. Candy and other confectionery ucts—manufacturing.	2046 205
prod-	2071		Sugar manufacturing. Confectionery and related prod-	2146 2150 2160	Wet corn milling. Bakery products—manufacturing. Sugar—manufacturing. Candy and other confectionery	2046 205
prod	-2071		Sugar manufacturing. Confectionery and related prod-	2146 2150 2160 2171	Wet corn milling. Bakery products—manufacturing. Sugar—manufacturing. Candy and other confectionery ucts—manufacturing.	2046 205 206
prod -	-2071		Sugar manufacturing. Confectionery and related prod-	2146 2150 2160 2171	Wet corn milling. Bakery productsmanufacturing. Sugarmanufacturing. Candy and other confectionery uctsmanufacturing. Chocolate and cocoa products	2046 205 206
prod	2071	217	Sugar - manufacturing. Confectionery and related products - manufacturing.	2146 2150 2160 2171 2172 2173	Wet corn milling. Bakery products - manufacturing. Sugar - manufacturing. Candy and other confectionery uets - manufacturing. Chocolate and cocoa products - manufacturing. Chewing gum - manufacturing.	2046 205 206 2072 2073
prod	-2071	217	Sugar manufacturing. Confectionery and related prod-	2146 2150 2160 2171 2172 2173 2181	Wet corn milling. Bakery products - manufacturing. Sugar - manufacturing. Candy and other confectionery ucts - manufacturing. Chocolate and cocoa products - manufacturing.	2046 205 206 2072

				manufacturing.	
			2184	Distilling, rectifying, and blending liquors.	2085
			2185	Bottling and canning soft drinks and carbonated waters.	2086
			2186	Flavor extracts and flavoring sirups manufacturing, NEC.	2087
	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	
eotton- 2093				— seed and soybean).	
			2194	Animal and marine fats and oils (in-	2094
				cluding grease and tallow) manufacturing.	
			2195	Roasting coffee and coffee	
roducts 2095					
				manufacturing.	
			2196	Shortening, table oils, margarine,	2096
				and other edible fats and oils-	
				manufacturing.	
			2197	Icemanufacturing	2097
2009			2198	Macaroni, spaghetti, vermicelli, and	
2098				noodles-manufacturing.	
			2199	· ·	2099
				products manufacturing, NEC.	
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B. A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES -- TWO-, THREE-, AND FOUR-DIGIT

	Category	Code	Category	Code	Category	SIC Reference ¹
22 and 221,22	Textile mill products—manu	ı - 221 − −C	Broad and narrow woven fabrics	2210	Broad and narrow woven fabrics	
manmade	facturing. and 224		and other small wares (cotton,		other small wares (cotton,	
manufactur			manmade fibers, silk, and wool)		fibers, silk, and wool)-	
			manufacturing.			
		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, NEC.		Felt goods (except woven felts and hats) manufacturing.	2291
				Lace Goods-manufacturing.	2292
			2293	Padding and upholstery filling-	2293
				manufacturing.	
C1 2204			2294	Processing waste and recovering	
fibers 2294				—and flock.	
			2205	— and riock. — Artificial leather and oil cloth	
manu 2295			22)3		
and				facturing and other impregnating	
rubberizing).				coating fabrics (except	
manufacturing.	2296		2296	Tire cording and fabric-	
-	2270		2297	Wool scouring, worsted combing,	
and 2297				towing to top.	
			2299	Other textile goods manufacturing, NEC.	2299
23 Apparel and other finished coats, 231	231	Men's, youths' and boys' suits,	2310	Men's, youth's, and boys' suits,	
products made from fab		coats, and overcoats manufac		and overcoats manufacturing.	
rics, leather, and similar		turing.		2	
materials manufacturing.		Ç			
	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.	
		<i>g.</i>		6	
	233	Women's, misses', juniors', girls', children's, and infants' outerwear-	2330	Women's, misses', juniors', girls', children's, and infants' outerwear	233 and
236		· · · · · · · · · · · · · · · · · · ·			
		manufacturing.		manufacturing.	
	224		22.40		224
	234	Women's, misses', children's, and			234
manufacturing.		infants' undergarmentsmanufact		infants' undergarments-	
manuracturing.		—uring.			
	235	Hats, caps, and millinery-manu-	2350	Hats, caps, and millinery-manufac-	235
	233	facturing.	2330	turing.	233
	236	Leather and leather products	2361	Leather tanning and finishing.	3111
	230	manufacturing.		Industrial leather belting and	3111
packing - 3121			_	-	
			2363	— manufacturing. Boot and shoe cut stock and	
findings 3131			2303		
			2364	— manufacturing. - Footwear (except rubber) —	
manufacturing.	314		2501	1 sources (cho ept thoses)	
			2365	Leather gloves and mittens-	
manufacturing.	315		2366	Luggage-manufacturing.	316

		2367 Handbags and other personal
leather 317		
		goods-manufacturing.
		2369 Other leather products
manufacturing,	319	•
		NEC.
	237	2370 Fur goods-manufacturing. 237

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

Code	Category	Code	Category	Code	Category	SIC Referenc
23	Apparel and other finished roducts made from fab	238	Miscellaneous apparel and accessories manufacturing.	2381	Dress and work gloves (except knit and all leather) manufacturing.	2381
	ics, leather, and similar		sories manaracturing.	2382	Robes and dressing gowns-manu-	
11	materials—manufacturing—			2302	facturing.	2304
	Continued			2383	Raincoats and other waterproof	
outer	-2385			2303	Rameouts and other waterproof	
					garments manufacturing.	
				2384	Leather and sheep lined clothing	2386
					manufacturing.	
				2385	Apparel belts-manufacturing.	2387
				2389		2389
					cessory manufacturing, NEC.	
		239	Other fabricated textile products	2391	Curtains and draperies manufac	2391
			manufacturing, NEC.		turing.	
				2392	House furnishings (except curtains	2392
					and draperies) - manufacturing.	2072
				2393	Textile bags—manufacturing.	2393
					Canvas products—manufacturing.	2394
					Pleating, decorative and novelty	2395
					stitching and tucking for the trade.	
				2396	Apparel findings and related prod	2396
					ucts-manufacturing.	
				2399	S	2397 and
					manufacturing, NEC.	2399
24 Lum	ber and wood prod-	-241	Logging camps and logging con-	2410	Logging camps and logging	
	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		Millwork.	2431
		prefabricated structural wood products manufacturing.	2432	Veneer and plywood-manufactur-	2432
		products-manufacturing.	2/33	ing. Prefabricating wooden buildings	
und 2433			2733	Tretableating wooden buildings	
6				structural members	
manufacturing.					
	244	Wooden containers manufacturing.	2440	Wooden containers—manufacturing.	244
	249	Other lumber and wood products.	2491	Wood preserving.	2491
		(except furniture) manufactur- ing, NEC.	2499	Other lumber and wood products (except furniture) manufacturing, NEC:	2499
25 F	251	TT 1 110 11 0 1	2510	TT 1116 '	
25 Furniture and fixtures— manufacturing.	——251— ——251	Household furniture- manufactur-	2510	Household furniture—	
manufacturing.		ing.			
	252	Office furniture—manufacturing.	2520	Office furniture manufacturing.	252
	253	Public building and related fur- niture—manufacturing.	2530	Public building and related furniture manufacturing.	-2531
	254	Partitions, shelving, lockers, and office and store fixtures manufacturing.	2540	Partitions, shelving, lockers, and office and store fixtures—manufacturing.	-254
	259	Other furniture and fixtures manufacturing, NEC.	2591	Venetian blinds and shades manufacturing.	2591
		incoming, INDC.	2599	-	-2599
26 Paper and allied products — — — — — — — — — — — — — — — — — — —	261	Pulp-manufacturing.	2610	Pulp manufacturing.	-261
	262	Paper (except building paper) — manufacturing.	2620	Paper (except building paper)————————————————————————————————————	262

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

						SIC
— Code	Category	Code	Category	Code	Category	Reference ⁴ —
26	Paper and allied products— manufacturing—Continued	263	Paperboard manufacturing.	2630	Paperboard manufacturing.	263
		264	Converted paper and paperboard products (except containers and	2641 2642	Paper coating and glazing. Envelope manufacturing.	2641 2642
			boxes)manufacturing.	2643	Bags (except textile bags)—manu—facturing.	2643

			2644	Wallpaper manufacturing.	2644
			2645	Die cut paper and paperboard; and cardboard manufacturing.	2645
			2646	Pressed and molded pulp goods	2646
			2647	Sanitary paper products-manufac-	2647
			2649	turing. Other converted paper and paper board products (except containers and boxes) manufacturing, NEC.	2649
	265	Paperboard containers and boxes manufacturing.	2650	Paperboard containers and boxes————————————————————————————————————	265
	266	Building paper and building board-manufacturing.	2660	Building paper and building board— manufacturing.	-266
27 Printing, publishing, and publishing	-271 - 271	Newspapers: publishing, publish	2710	Newspapers: publishing,	
allied industries.		ing and printing.		and printing.	
	272	Periodicals: publishing, publishing and printing.	2720	Periodicals: publishing, publishing and printing.	- 272
	273	Books: publishing, publishing and printing.	2730	Books: publishing, publishing and printing.	273
	274	Commercial printing.	2740	Commercial printing.	275
	275	Manifold business forms-manu- facturing.	2750	Manifold business forms—manufac—turing.	276
	276	Greeting card-manufacturing.	2760	Greeting card-manufacturing.	277
	277	Bookbinding and related industries manufacturing.	2771	Blankbooks, looseleaf binders, and devices manufacturing.	2782
			2772	Bookbinding and miscellaneous re lated work manufacturing.	2789
	278	Printing trade service industries.	2781	Typesetting.	2791
				Photoengraving.	2793
				Electrotyping and stereotyping.	2794
				Other printing trade service industries, NEC.	2799
<u>NEC. 274</u>	279	Other printing and publishing, NEC.	2790	*	
	201		2010		201
28 Chemicals and allied prod- ucts -manufacturing.	281	Industrial inorganic and organic chemicals manufacturing.	2810	Industrial inorganic and organic chemicals—manufacturing.	- 281
	282	Plastics materials and synthetic resins, synthetic rubber, syn	2820	Plastics materials and synthetic resins, synthetic rubber, synthetic	282
		thetic and other manmade fibers (except glass) manufacturing.		and other manmade fibers (except glass) manufacturing.	
manufacturing	283 2831	Drug manufacturing.	2831	Biological products	
manufacturing.	2031		2832	Medicinal chemicals and botanical products manufacturing.	2833
			2833		2834

284	Soap, detergents, and cleaning preparations, perfumes, cos-	2841	ufacturing. Soap and detergents (except specialty eleaners) manufacturing.	 2841
	metics, and other toilet preparations manufacturing.	2842	Specialty cleaning, polishing, and sanitation preparations (except soap and detergents) manufacturing.	2842
		2843	Surface active agents, finishing agents, sulfonated oils, and assistants—manufacturing.	2843
toilet 2844 C		2844	Perfumes, cosmetics, and other preparations manufacturing.	

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

Code	Category	Code	Category	Code	Category	SIC Referer
28 manufactu	Chemicals and allied products manufacturing	285	Paints, varnishes, lacquers, en amels, and allied products	- 2850	Paints, varnishes, lacquers, enamels, and allied products—	285
	Continued.		manufacturing.			
nanufac-	204	286	Gum and wood chemicals manu-	2860	Gum and wood chemicals	
	- 200		facturing.		turing.	
		287	Agricultural chemicals manufacturing.	2870	Agricultural chemicals—manufac—turing.	- 287
		289	Other chemicals and allied products—manufacturing, NEC.		Glue and gelatin manufacturing. Explosives manufacturing.	2891 2892
			ues manaratiang, r.2e.	2893	Printing ink manufacturing. Carbon black manufacturing.	2893 2895
					Other chemicals and allied products manufacturing, NEC.	2899
29	Petroleum refining and re-	291	Petroleum refining.	2910	Petroleum refining.	-291
		292	Paving and roofing materials manufacturing.	2921	Paving mixtures and blocks—manu—facturing.	2951
				2922	Asphalt felts and coatings—manu—facturing.	 2952
		299	Other petroleum refining and re- lated industries, NEC.	2991	Lubricating oils and greases manufacturing.	2992
				2999	Other petroleum and coal products manufacturing, NEC.	2999
31 Rubb	er and miscellaneous — plastic products manu — facturing.	311	Tires and inner tubes—manufacturing.	3110	Tires and inner tubes manufacturing.	301
	ructuring.	312	Rubber footwear-manufacturing.	3120	Rubber footwear-manufacturing.	302
		313	Reclaiming rubber.	3130	Reclaiming rubber.	303

	314	Miscellaneous plastic products- manufacturing.	3140	Miscellaneous plastic products————————————————————————————————————	-307
	319	Other fabricated rubber products manufacturing, NEC.	3190	Other fabricated rubber products manufacturing, NEC.	- 306
32 Stone, clay, and glass products—manufacturing.	321	Flat glass-manufacturing.	3210	Flat glass-manufacturing.	3211 and incl. 3231
	322	Glass and glassware (pressed or blown) manufacturing.	3221	Glass containers manufacturing.	3221 and incl. 3231
		ere may manage	3229	Other glass and glassware (pressed or blown) manufacturing, NEC.	3229 and incl. 3231
	323	Cement (hydraulie) manufacturing.	3230	Cement (hydraulie) manufacturing.	-324
nanu 3251	324	Structural clay products manu	3241	Brick and structural clay tile	
114114 - 323 F		facturing.		facturing.	
			3242		3253
				Clay refractories—manufacturing. Other structural clay products	3255
nanu 3259				facturing, NEC.	
	325	Pottery and related products manufacturing.	3251	Vitreous china plumbing fixtures, china, earthenware fittings, and bathroom accessories	-3261
nanufacturing.			3252	Vitreous china table and kitchen articles—manufacturing.	-3262
			3253	Fine earthenware (whiteware) table and kitchen articles—	-3263
manufacturing.			3254	Porcelain electrical supplies manufacturing.	-3264
			2250	Other pottery and related products	3269

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

						SIC
Code	Category	-Code	Category	Code	Category	Reference ⁴
32	Stone, clay, and glass products—manufacturing—	326	Concrete, gypsum, and plaster products—manufacturing.	3261	Concrete brick and block manufacturing.	3271
	Continued.		products manufacturing.	3262	Concrete products (excluding brick and block)—manufacturing.	3272
				3263	Concrete (ready mixed) manufacturing.	3273
				3264	Lime products-manufacturing.	3274

			3265	Gypsum products manufacturing.	3275
220	327	Cut stone and stone products-	3270	Cut stone and stone products-	
nanu- 328		manufacturing.		facturing.	
	328	Abrasive, asbestos, and miscella	3280	Abrasive, asbestos, and miscella	329
		neous nonmetallic mineral products manufacturing.		neous nonmetallic mineral products manufacturing.	
33 Primary metal industries.	331	Blast furnaces, steel works, and	3311	Blast furnaces (including coke	
ovens), 3312		the rolling and finishing of fer-		steel works, and the rolling of fer-	
		Tout Memor	3312	Electrometallurgical products—man—ufacturing.	331
			3313	Steel wire drawing and steel nails and spikes—manufacturing.	331
			3314	Cold rolled sheet, strip, and bars————————————————————————————————————	331
nanufacturing.	3317		3315	Steel pipe and tubes -	
	332	Iron and steel foundries.	3320	Iron and steel foundries.	332
	333	Primary smelting and refining of nonferrous metals.	3331	Primary smelting and refining of copper.	333
		nomerrous metals.	3332	Primary smelting and refining of lend.	333
			3333	Primary smelting and refining of zinc.	333
			3334	Primary production of aluminum.	333
			3339	Other primary smelting and refining of nonferrous metals, NEC.	333
	334	Secondary smelting and refining of nonferrous metals and alloys.	3340	Secondary smelting and refining of nonferrous metals and alloys.	334
	335	Rolling, drawing, and extruding of nonferrous metals.	3351	Rolling drawing, and extruding of copper.	335
		nomerrous metals.	3352	Rolling, drawing, and extruding of aluminum.	335
			3353	Rolling, drawing, and extruding of nonferrous metals (except copper	335
nonferrous 3357			3354	— and aluminum). — Drawing and insulating of	
iomenous3337				wire.	
	336	Nonferrous foundries.	3360	Nonferrous foundries.	-336
	339	Other primary metal industries, NEC.	3390	Other primary metal industries, NEC.	339
34 Fabricated metal prod	341	Ordinance and accessories.	3411	Guns, howitzers, mortars, and re-	191
ucts-manufacturing.			3412	lated equipment—manufacturing. Ammunition (except small arms) manufacturing and complete as-	-192
				sembling of guided missiles and	

=		space vehicles.
		3413 Tanks and tank components—manu——193
		facturing. 3414 Sighting and fire control
equipment-	194	3414 Signing that the control
		manufacturing.
		3415 Small arms—manufacturing. 195
-		3416 Small arms ammunition—manufac——196
		turing.
		3419 Other ordinance and accessories 199 ———————————————————————————————————
		6,

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

		<i>C</i> 1	<i>C</i> .	G 1		SIC .
Code		Code	Category	Code-	Category	- Referen
34	Fabricated metal products manufacturing	342	Machinery (except electrical)————————————————————————————————————	3421	Engines and turbines—manufactur—ing.	351
	Continued.			3422	Farm machinery and equipment manufacturing.	352
				3423	Construction, mining, and materials handling machinery and equip-	353
equip-	-354			3424	— ment-manufacturing. - Metalworking machinery and	
equip	- 334			2.425	ment-manufacturing.	255
				3425	Special industry machinery (except—metalworking machinery)—manufacturing.	-355
				3426	General industrial machinery and equipment manufacturing.	-356
				3427	Office, computing, and accounting machines—manufacturing.	357
				3428	Service industry machines—manu—facturing.	-358
				3429	Other machinery manufacturing (except electrical), NEC.	-359
		343	Electrical machinery, equipment, and supplies manufacturing.	3431	Electrical transmission and distribution equipment—manufacturing.	-361
				3432	Electrical industrial apparatus————————————————————————————————————	-362
				3433	Household appliances manufacturing.	-363
				3434	Electric lighting and wiring equipment—manufacturing.	-364
				3435	Radio and television receiving sets (except communication types) manufacturing.	-365
				3436	Communication equipment—manu—facturing.	-366
				3437	Electronic components and accessories—manufacturing.	-367

		n	ther electrical machinery, equipment, and supplies manufacturng, NEC.	369
	344 Transportation equipment—man- ufacturing.		lotor vehicles and motor vehicle	371
		3442 Ai	ircraft and parts—manufacturing.	372
			nip and boat building and	
repairing. 373		2444 B		
manufacturing.	374	3444 R a	ailroad equipment-	
manuracturing.	31 4		lotoreycles, bicycles, and parts-	375
		3449 Ot	ther transportation equipment manufacturing, NEC.	379
	349 Other fabricated metal products	3491 M	letal cans-manufacturing.	341
	manufacturing, NEC.		utlery, hand tools, and general hardware manufacturing.	342
		е	eating apparatus (except electri- eal) and plumbing fixtures—man- ufacturing.	343
		3494 Fa	abricated structural metal products—manufacturing.	344
		3495 Sc	erew machine products and bolts, nuts, screws, rivets, and washers— nanufacturing.	345
			letal stamping manufacturing.	346
		3497 Co	oating, engraving, and allied serv-	347
			ces.	
			abricated wire products (miscella- neous products) manufacturing.	348
		3400 Ot	ther fabricated metal products	349

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Code	Category	Code	Category	Code	Category	SIC Reference ¹
35	Professional, scientific, and controlling instruments: photographic and optical goods; watches and clocks-manufacturing.	351	Engineering, laboratory, and sei- entific and research instruments and associated equipment- manufacturing.	3510	Engineering, laboratory, and scientific and research instruments and associated equipment manufacturing.	381
	257	352	Instruments for measuring, con- trolling, and indicating physical characteristics—manufacturing.	3521	Mechanical measuring and control- ling instruments (except automatic temperature controls) manufac- turing.	3821
				3522	Automatic temperature controls manufacturing.	3822
		353	Optical instruments and lenses- manufacturing.	3530	Optical instruments and lenses——————————————————————————————————	383

	354	Surgical, medical, and dental in struments and supplies manufacturing.	3541	Surgical and medical instruments and apparatus—manufacturing.	-3841
_		racturing.	3542	Orthopedic, prosthetic, and surgical appliances and supplies manufacturing.	3842
			3543	Dental equipment and supplies manufacturing.	3843
	355	Ophthalmic goods manufacturing.	3550	Ophthalmic goods manufacturing.	-385
	356	Photographic equipment and supplies—manufacturing.	3560	Photographic equipment and supplies—manufacturing.	-386
operated 387	357	Watches, clocks, clockwork oper-	3570	Watches, clocks, clockwork	
perated 507		ated devices, and parts manu facturing.		devices, and parts manufacturing.	
39 Miscellaneous manufactur- ing, NEC.	391	Jewelry, silverware, and plated ware manufacturing.	3911	Jewelry and precious metals manufacturing.	3911
mg, NDC.		wate manufacturing.	3912	Jewelers' findings and materials————————————————————————————————————	3912
			3913	Lapidary work.	3913
			3914	Silverware and plated ware—manu—facturing.	3914
	392	Musical instruments and parts————————————————————————————————————	3920	Musical instruments and parts————————————————————————————————————	-393
	393	Toys, amusement, sporting, and athletic goods—manufacturing.	3930	Toys, amusement, sporting, and athletic goods—manufacturing.	-394
	394	Pens, pencils, and other office and artists' materials manu facturing.	3940	Pens, pencils, and other office and artists' materials manufacturing.	-395
rovelties, 396	395	Costume jewelry, costume novel	3950	Costume jewelry, costume	
		ties, buttons, and miscellaneous notions (except precious metals) manufacturing.		buttons, and miscellaneous notions (except precious metals) manu facturing.	
	396	Tobacco manufacturing.		Cigarettes manufacturing. Cigars manufacturing.	211 212
nd 213			- 3963 -	Tobacco (chewing and smoking)	
			3964	— snuff—manufacturing. 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

						SIC
Code	Category	-Code	Category	Code	Category	Reference
39	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.	3983
				3994	Lamp shades manufacturing.	3987
				3995	Mortician's goods-manufacturing.	3988
				3996	Fur dressing and dyeing	3992
				3997	Signs and advertising displays-	3993
					manufacturing.	
				3998	Umbrellas, parasols, and canes-	3995
					manufacturing.	
				3999	Other miscellaneous manufacturing,	3984 and
					NEC.	3999
1 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	
					yards.	
				4113	Railroad terminals (passenger).	
					Railroad terminals (freight).	
				4115	Railroad terminals (passenger and	
					freight).	
				4116	Railroad equipment and mainte	
					nance.	
				4119	Other railroad transportation, NEC.	
		412	Rapid rail transit and street rail-	4121	Rapid rail transit and street railway	
			way transportation.		right-of-way.2	
				4122	Rapid rail transit and street railway	
					passenger terminals.3	
				4123	Rapid rail transit and street railway	
					equipment maintenance.	
				4129	Other rapid rail transit and street	
					railway transportation, NEC.	
2 Mote	or vehicle transporta-	-421	Bus transportation.	4211	Bus passenger terminals	
	tion.			4212	Bus passenger terminals (local).4	
					Bus passenger terminals (intercity	
				.210	and local).4	
				4214	Bus garaging and equipment	
ainte-					000 odarb	
				4210	— nance. Other bus transportation, NEC.	
				4219	Outer bus transportation, INEC.	

422	Motor freight transportation	4221	Motor freight terminals.
T LL	Motor neight transportation.	7221	Wiotor freight terminals.
		4222	Motor freight garaging and equip
		7222	Motor freight garaging and equip-
			ment maintenance.
			ment mantenance.
			Other motor freight transportation
		722)	Other motor regit transportation,
			NEC.

FOOTNOTES

-¹The 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.

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

Code	Category	Code	Category	Code	Category	Reference [‡] (
42	Motor vehicle transportation—Continued	429	Other motor vehicle transportation, NEC.	4291 4299	Taxicab transportation. Other motor vehicle transportation,	
					NEC.	
43	Aircraft transportation.	431	Airports and flying fields.	4311	Airport and flying field landing/ takeoff fields.	
				4312	Airport and flying field terminals (passenger).	
				4313	Airport and flying field terminals (freight).	
				4314	Airport and flying field terminals (passenger and freight).	
				4315	Aircraft storage and equipment maintenance.	
				4319		
		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.
5 Highway and street right of-way.	451	Freeways.	4510	Freeways.9
	452	Expressways.	4520	Expressways.10
	453	Parkways.		Parkways.11-
	454	Arterial streets.		Arterial streets.12
	455	Collector/distributor streets.		Collector/distributor streets-13
	456	Local access streets.		Local access streets.14
	-457	Alleys.		Alleys.15
	459			
	437	way, NEC.	4370	Other highway and street right-of—way, NEC.
6 Automobile parking.	460	Automobile parking.	4600	Automobile parking.16
7 Communication.	471	Telephone communication.	4711	Telephone exchange stations.
7 Communication.	4/1	reiephone communication.		
microwave).			4/12	Telephone relay towers
·			4719	Other telephone communication,
				— NEC.
	472	Telegraph communication.	4721	Telegraph message centers.
	7/2	relegraph communication.		Telegraph transmitting and receiv
			4/22	
			4720	ing stations (only).
			4/29	Other telegraph communication,
				— NEC.
	473	Radio communication.	4731	Radio broadcasting studios (only).
			4732	Radio transmitting stations and
			4739	Other radio communication, NEC.
	474	Television communication.	4741	Television broadcasting studios
only)			4742	Television transmitting stations and
			7/72	relay towers.
			4749	Other television communication,
				NEC.
	475	Radio and television communica	4751	Radio and television broadcasting
		tion (combined systems).		studios, only (combined systems).
		(4759	
elevision				
				communication, NEC.
	479	Other communication, NEC.	4790	Other communication. NEC.

						SIC
Code	Category	Code	Category	Code	Category	Referen
48	Utilities	481	Electric utility.	4811	Electric transmission right of	
1 y.17		С				
				4812	Electric generation plants.	
				4813	Electricity regulating substations.	
				4819	Other electric utility, NEC.	
		482	Gas utility.	4821	Gas pipeline right of way.17	
		102	Gus utility.		Gas production plants.	
				4823	Natural or manufactured gas storage	
				.020	and distribution points.	
				4824	Gas pressure control stations.	
					Other gas utilities, NEC.	
		402	W/-44:1:4: 1 ::4:	4021	W-4	
		483	Water utilities and irrigation.	4831	Water pipeline right-of-way.17	
				4832	Water treatment plants (purifica tion).	
				1922		
					Water storage.18 Irrigation distribution channels.	
					Water pressure control stations.	
				4 033	Other water utilities and irrigation,	
				+037	NEC.	
		484	Sewage disposal.		Sewage treatment plants.	
				4842	Sewage sludge drying beds.	
					Sewage pressure control stations.	
				4849	Other sewage disposal, NEC.	
		485	Solid waste disposal.	4851	Refuse incineration.	
				4852	Central garbage grinding stations.	
				4853	Compositing plants.	
				4854	Sanitary landfills.	
				4855	Refuse disposals.	
					Industrial waste disposals.	
				4857	Active slag dumps and mineral	
ste					disposals.	
				1850	Other solid waste disposal, NEC.	
				1037	Other solid waste disposal, 142C.	
		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,		pressure control stations, NEC.	4912	Petroleum pressure control stations.	
	NEC.		pressure control stations, 1.20.		Other pipeline right of way and	
es-					A LAC NEC	
					sure control stations, NEC.	
		492	Transportation services and ar-	4921	Freight forwarding services.	4041 aı
			rangements.			4712
					Packing and crating services.	4783
				4923	Travel arranging services.	472
				4924	Transportation ticket services. 18	
					Other transportation services and	

arrangements, NEC. 499 Other transportation, communica 4900 Other transportation, communica tion, and utilities, NEC. tion, and utilities, NEC. ⁵Code 4391—"Heliport landing/takeoff pads" **FOOTNOTES** are identified only The SIC codes are listed for purposes of reference. They are the when they are separate activities and not a part of code 431, "Airports codes in the SIC system that most nearly correspond to the 4-digit and flying fields." land use activity indicated. (See ch. III, Sec. A3, "The Use of Stand-Code 44-"Marine craft transportation." The maintenance and ard Industrial Classification Nomenclature.") A dash indicates that repair of marine craft should be coded 3443, "Ship and boat building there is no corresponding SIC code. and repairing." ²Code 4121—"Rapid rail transit and street railway right-of-way" ⁷Code 441—"Marine terminals" include all docking facilities (e.g., includes only that land which is not within public right-of-way (e.g., wharves, piers, and docks) and associated areas that are 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 code 744. "Marinas." ³Code 4122—"Rapid rail transit and street railway passenger ter--8Code 4411--"Marine terminals (passenger)" include ferry terminals. ⁹Code 4510—"Freeways" are divided minals" identifies only those terminals that are not located within highways for 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 -10 Code 4520-"Expressways" are divided 4Codes 4211, 4212, 4213—"Bus passenger terminals" identifies only 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. Footnotes continued on following page. B - 12B. A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES -- TWO-, THREE-, **AND FOUR-DIGIT** LEVELS -- Continued -¹¹Code 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 structures, parking within structures that also house or within a ribbon of parklike development. other activities (e.g., 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 segarate activity. *Code 4550- "Collector/distributor streets" are those streets that 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-

	streets also provide	necessary cro	ss connections be	tive activ	ities and is used for no other	
purposes.	m 11 · /11	·	. 1 11 1	18 ~	1 4000 1997	
		ibutor street d	oes not handle long		ode 4833"Water storage" includes	
mpounded surfa		c.	. a a			
	nd it is not continuo	us for any gre	at length.	areas or v	water tanks used for storage. Lakes	
or other natural —— ¹⁴ Code 456	water 50—"Local access st	reets" are tho	se used primarily for	formation	ns are identified under code 93,	
'Water areas."	nces, businesses, or	other abuttin	r activities	19 _C	ode 4924-"Transportation ticket	
ervices" includ		other abutting	g uetrvities.		ode 4924 - Transportation ticket	
		nor norrow etc	eets usually without	offices of	f any of the transportation systems.	
The ticket office		noi narrow su	ects usuarry without	Offices of	any of the transportation systems.	
	n which building ac	lioin from the	rear	identified	l only when they are a separate and	
listinet activity,		ijoni ironi tile	Tour.	паститис	romy when they are a separate and	
16 Code 460	- not 10. "Automobile pe	rking" includ	es nonresidential off-	located w	vithin one of the transportation	
erminals.	o Automobile pa	iking merudi	es nomesidential on-	10cated v	Turn one of the transportation	
	at is 5,000 square f	eet or greater	(or approximately			
						SI€
Code	Category	Code	Category	Code	Category	Refere
51 Who	lesale trade.2	511	Motor vehicles and automotive	5111	Automobiles and other motor vehi-	5012
	105410 1144012		equipment wholesale.	0111	cles wholesale.	2012
				5112	Automotive equipment—wholesale.	5013
					Tires and tubes—wholesale.	-5014
				3113	The and those wholesale.	2017
		512	Drugs, chemicals, and allied	5121	Drugs, drug proprietaries and drug-	5022
			productswholesale.		gists' sundries—wholesale.	
					Paints and varnishes—wholesale.	5028
				5129	Other drugs, chemicals, and allied	5029
					products, wholesale, NEC.	
		513	Dry goods and apparel-whole-	5131	Dry goods, piece goods, and	
otions-5032						
			sale.		wholesale.	
1.5025				5132	Apparel and accessories, hosiery,	
nd 5035					lingeriewholesale.	
				5133	Footwear-wholesale.	-5039
		514	Groceries and related products	5141	Groceries (general line) wholesale.	5042
			wholesale.		Dairy products—wholesale.	5043
					Poultry and poultry products	5044
					wholesale.	
				5144	Confectionery—wholesale.	5045
					Fish and seafoods—wholesale.	-5046
					Meats and meat products—	
vholesale. 5047				5146	Fruits and vegetables (fresh)	- 5048
vholesale. 5047				5146 5147	-	-5048 5049
wholesale. 5047		515	Farm products (raw materials)	5146 5147 5149	Fruits and vegetables (fresh) wholesale. Other groceries and related products	
wholesale. 5047 Incl. 5051		515	Farm products (raw materials) wholesale.	5146 5147 5149	Fruits and vegetables (fresh) wholesale. Other groceries and related products wholesale, NEC. Cotton—wholesale.	

			5153	Hides, skins, and raw furs whole-	
— Incl. 5051					
			5154		
——Incl. 5051					
Incl. 5051			5155	Wool and mohair—wholesale.	
			5156	Livestock—wholesale.	
— Incl. 5051			5157	Horses and mules—wholesale.	
——Incl. 5051			3137	Tiorses and males—wholesare.	
Incl. 5051			5159	Other farm products wholesale,	
				NEC.	
	516	Electrical goods, wholesele	5161	Electrical apparetus and acquimment	-5063
	310	Electrical goods—wholesale.	3101	Electrical apparatus and equipment, wiring supplies, and construction	- 3003
				materials—wholesale.	
and 5064			5162	Electrical appliances, television,	
and 5004				radio sets-wholesale.	
			5163	Electronic parts and equipment	5065
-				wholesale.	
	517	Hardware, plumbing, heating		Hardware wholesale.	5072
		equipment, and supplies— wholesale.	5172	Plumbing and heating equipment and supplies wholesale.	5074
		wholesale.	5173	— and supplies—wholesale: — Air conditioning, refrigerated	
equip- 5077					
				ment, and supplieswholesale.	

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

Code	Category	Code	Category	Code	Category	- Referenc
——51—	Wholesale trade 2	——518 —— В	Machinery, equipment, and	5181	Commercial and industrial	
	Continued		supplies-wholesale.		ery, equipment, and supplies— wholesale.	
				5182	Farm machinery and equipment————————————————————————————————————	- 5083
				5183	Professional equipment and supplies—wholesale.	 5086
				5184	Equipment and supplies for service establishments—wholesale.	- 5087
				5185	Transportation equipment and sup- lies (except motor vehicles)— —wholesale.	- 5088
				5189	Other machinery, equipment, and supplies wholesale, NEC.	5089
		519	Other wholesale trade, NEC.	5191	Metals and minerals (except petro-	5091

					leum products and scrap) whole	
				5192	— sale. — Petroleum bulk stations and termi —	5092
				5193	nals—wholesale. Scrap and waste materials—whole	5093
					sale.	
					Tobacco and tobacco products——wholesale.	- 509 4
				5195	Beer, wine, and distilled alcoholic beverages—wholesale.	5095
					Paper and paper products—whole————————————————————————————————————	- 5096
				5197	— sare: — Furniture and home furnishings————————————————————————————————————	5097
5000				5198	— wnoiesaie. Lumber and construction materials—	
5098					wholesale.	
				- 5199	Other wholesale trade, NEC.	- 5099
52	Retail trade-building ma-	521	Lumber and other building ma-	5211	Lumber years-retail	5211
	terials, hardware, and		terialsretail.	5212	Building materialsretail.	5212
	farm equipment.		Heating and plumbing equip-	5220	Heating and plumbing equipment—	-522
		-523	Paint, glass, and wallpaper	5230	Paint, glass, and wallpaper retail.	523
		524	retail. Electrical supplies retail.		Electrical supplies retail.	524
			Hardware and farm equip		Hardware retail	5251
			ment-retail.		Farm equipment retail.	5252
53	Retail trade—general mer—chandise.	531	Department stores—retail.	5310	Department stores retail.	531
	chandisc.	532	Mail order houses-retail.	5320	Mail order houses -retail.	-532
		533	Limited price variety stores retail.	5330	Limited price variety stores—retail.	533
		534	Merchandise vending machine operators retail.	5340	Merchandise vending machine operators retail.	534
		-535	Direct selling organizations retail.	5350	Direct selling organizations retail.	535
		539	Other retail trade—general————————————————————————————————————	5391	Dry goods and general merchan	- 5392
				5392	General stores retail.	5393
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	Meatsretail.	5422
					Fish and seafoods—retail.	<u>5423</u>

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

Code	Category	Code	Category	Code	Category	— SIC — Reference
			g. ,			· y ·····
-54	Retail trade-food- Continued	543	Fruits and vegetables retail.	5430	Fruits and vegetables retail.	543
		544	Candy, nut, and confectionery retail.	5440	Candy, nut, and confectionery—retail.	 544
		545	Dairy products-retail.	5450	Dairy productsretail.	 545
		546	Bakeries-retail.		Bakeries (manufacturing)retail.3	- 5462
				5462	Bakeries (nonmanufacturing) retail.4	 5463
		549	Other retail trade—food, NEC.		Egg and poultry retail.	- 5491
				5499	Other retail trade—food, NEC.	- 5499
55 ars)-	Retail trade—automotive, 551	551	Motor vehicles retail.	5511	Motor vehicles (new and used	
	marine craft, aircraft,			5510	retail.	550
	and accessories.			3512	Motor vehicles (used cars only)	552
		552	Tires, batteries, and acces-	5520	Tires, batteries, and accessories-	553
			sories retail.		retail.	
		553	Gasoline service stations.	5530	Gasoline service stations.	 554
		559	Other retail trade-automotive,		Marine craft and accessories-retail	Incl. 5599
			marine craft, aircraft, and accessories, NEC.		Aircraft and accessories retail. Other retail trade automotive,	Incl. 5599 Incl. 5599
			uccessories, 14Ec.		marine craft, aircraft, and accessories, NEC.	mei. 3377
56	Retail trade—apparel and accessories.	561	Men's and boys' clothing and furnishings retail.	5610	Men's and boys' clothing and fur- nishings—retail.	 561
		562	Women's read to-wear-retail.	5620	Women's ready-to-wear-retail.	562
		563	Women's accessories and specialties retail.	5630	Women's accessories and special- ties retail.	 563
		- 564	Children's and infants' wear retail.	5640	Children's and infants' wear retail.	 564
		- 565 -	Family clothing-retail.	5650	Family clothing retail.	565
		- 566 -	Shoes-retail.	5660	Shoes-retail.	 566
		567	Custom tailoring.	5670	Custom tailoring.	567
		568	Furriers and fur apparelretail.	5680	Furriers and fur apparel-retail.	- 568

	569	Other retail trade—apparel and—accessories, NEC.	- 5690	Other retail trade apparel and accessories, NEC.	569
57 Retail trade-furniture,	571	Furniture, home furnishings, and	5711	Furnitureretail.	5712
home furnishings, and		equipmentretail.	5712	\mathcal{E}	- 5713
equipment. 5714			5713	Draperies, curtains, and upholstery-	
				retail.	
			5714	China, glassware, and metalware retail.	- 5715
			5719	Other furniture, home furnishings, and equipment retail, NEC.	- 5719
	572	Household appliances -retail.	5720	Household appliances retail.	-572
	573	Radios, televisions, and music	5731	Radios and televisions -retail.	5732
		supplies retail.	5732	Music supplies retail.	5733
58. Retail trade—eating and———drinking.	581	Eating places.	- 5810 -	Eating places.s	5812
-	582	Drinking places (alcoholic bev-	5820	Drinking places (alcoholic	
everages).	5813				
		erages).			

B-15 B. A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES -- TWO-, THREE-, AND FOUR-DIGIT

						SIC
Code	Category		Category	Code	Category	Referenc
_59	Other retail trade, NEC.	591	Drug and proprietary retail.	5910	Drug and proprietary retail.	-591
		592	Liquor-retail.	5920	Liquor-retail.	592
		593	Antiques and secondhand mer	5931 5932	Antiques-retail.	5932
			chandiseretail.	3932	Secondhand merchandise retail.	-5933
		594	Book and stationery retail.		Books retail.	5942
				5942	Stationery-retail.	- 5943
		- 595 -	Sporting goods and bicycles-	5951	Sporting goodsretail.	-5952
			retail.	5952	Bicyclesretail.	- 5953
		596	Farm and garden supplies re	5961	Hay, grains, and feeds-retail.	-5962
			tail.	5969	Other farm and garden supplies retail, NEC.	5969
		597	Jewelry-retail.	5970	Jewelry-retail.	597
		598	Fuel and ice-retail.	5981	Fuel and ice dealers (except fuel oil and bottled gas dealers) retail.	- 5982
				5982	Fuel oilretail.	- 5983
					Bottled gas-retail.	5984

	599	Other retail trade, NEC.	5991	Florists retail.	<u>5992</u>
			5992	Cigars and cigarettes-retail.	- 5993
			5993 -	Newspapers and magazines retail.	- 5994
				Cameras and photographic supplies-	!
-3996 				retail.	ļ
			5995	Gifts, novelties, and souvenirs re-	5997
				tail.	!
			- 5996	Optical goods-retail.	5998
				Other retail trade, NEC.	5999
61 Finance, insurance, and	611	Banking and bank related func-	6111	Banking services.	601, 602, 603,
real estate services.		tions.			and 604
			6112	Bank-related functions.	605
	612	Credit services (other than	6121	Savings and loan associations.	612
		banks).	6122		613, 614 and 615
				credit services (including credit unions).	,
			6120	Other credit services (other than	C11 and 616
_			- 0129	— Other credit services (other than ————————————————————————————————————	611 and 616
	613	Security and commodity brok-	6131	Security brokers, dealers, and flota	- 6211
		ers, dealers, exchanges, and		tion services.	0211
		services.	6132	Commodity contracts brokers and	6221
		Bet vices.		dealers services.	0221
			6133	Security and commodity exchanges.	623
				Security and commodity allied serv-	628
				ices.	0_0
	614	Insurance carriers, agents, brok-	6141	Insurance carriers.	63
		ers, and services.		Insurance agents, brokers, and serv-	64
				ices.	

FOOTNOTES	the premises. For example, 5122-0 is a wholesaler of
paints and var-	
	nishes who has a definite storage area set aside for
his merchandise.	3
The SIC codes are listed for purposes of reference. They are the	³ Code 5461"bakeries (manufacturing)retail"
include only those	
codes in the SIC system that most nearly correspond to the 4-digit	bakeries that produce on the premises some or all of
the products sold.	4
land use activity indicated. (See ch. 111. sec. A3, "The Use of Standard	Code 5462—"Bakeries (nonmanufacturing)—
retail" include only	
Industrial Classification Nomenclature.") A dash indicates that there	those bakeries that do not produce on the premises the
products that	
is no corresponding SIC code.	-arę sold.
Code 51"Wholesale trade." A code of "0" is used in the auxiliary	Code 5810—"Eating places" include both
establishments serving	
position for those wholesalers who maintain a definite storage area on	only food as well as those serving both food and
alcoholic beverages.	

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

						SIC .
Code	Category	Code	Category	Code	Category	Reference ¹ —
61	Einamaa inggreenaa and	615	Real estate and related services.	6151	Deel estate enemators (except devial	651
61	Finance, insurance, and real estate services	013	Real estate and related services.	0131	Real estate operators (except developers) and lessors.	031
	Continued.			6152	Real estate agents, brokers, and	653
					management services.	
				6153	Title abstracting services.	654
					Real estate subdividing and	
develop-	-655				<u> </u>	
					ing services.	
				6155	Real estate operative builders.	656
				6156	Combinations of real estate, insur	661
					ance, loan, and law services.	
				6159	Other real estate and related	
services,					NEC.	
		616	Holding and investment serv ices.	6160	Holding and investment services.	67
		610		6100		
		619	Other finance, insurance, and	6190	Other finance, insurance, and real	
			real estate services, NEC.		estate services, NEC.	
62	Personal services.	621	Laundering, dry cleaning, and	6211	Laundering, dry cleaning, and dye	7211, 721
			dyeing services.		ing services (except rugs).	7216
				6212	Linen supply and industrial laundry—services.	7213
				6213	Diaper services.	7214
					Laundering and dry cleaning (self-	7215
				0211	— service).	,213
				6215	Rug cleaning and repair services.	7217
		622	Photographic services (includ-	6220	Photographic services (including	722
		022	ing commercial).	0220	- commercial).	122
					00111110101111111	
		623	Beauty and barber services.		Beauty services.	723
				6232	Barber services.	724
		624	Funeral and crematory services;	6241	Funeral and crematory services.	726
		024			Comptories	720
			cemeteries.	0272	Centerenes.	
		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).	
			*	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.	729
						5011
63	Business services.	631	Advertising services.	6311	Advertising services (general). Outdoor advertising services.	7311 7312

			6319	Other advertising services, NEC.	7319
	632	Consumer and mercantile credit reporting services, adjustment and collection services.	6320	Consumer and mercantile credit reporting services; adjustment and collection services.	7321
	633	Duplicating mailing and steno-	6331	Direct mail advertising services.	7331
serv 7332		graphic services.	6332	Blueprinting and photocopying	
-				ice.	
			6339	Stenographic services and other duplicating and mailing services,	7339
NEC.				duplicating and manning services;	
	634	Dwelling and other building	6341	Window cleaning services.	7341
7242		services.	6342	Disinfecting and exterminating	
serv- 7342				vices.	
			6349	Other dwelling and building	
services, 7349				NEC.	
	635	News syndicate services.	6350	News syndicate services.	735
	955	riews syndicate services.	0330	Tiews syndicate services.	-133
	636	Employment services.	6360	Employment services.	736

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

			_		_	SIC
Code	Category	Code	Category	Code	<u>Category</u>	Reference [‡] –
63	63 Business services Continued	637	Warehousing and storage serv-	6371	Farm products warehousing and storage (excluding stockyards).	4221
				6372	Stockyards.	4731
				6373	Refrigerated warehousing (except food lockers).	4222
				6374	Food lockers (with or without food preparation facilities).	4223
				6375		4224
				6376	General warehousing and storage.	4225
				6379	Other warehousing and storage, NEC.	4226
		639	Other business services, NEC.	6391	Research, development, and testing services.	7391
				6392	Business and management	
consulting		7392				
					services.	
				6393	Detective and protective services.	7393
				6394	Equipment rental and leasing serv-	7394

				— ices.	
			6395 -	Photofinishing services.	7395
			6396	Trading stamp services.	7396
			6397	Automobile and truck rental serv-	7511
				ices.	
			6398	Motion picture distribution and	7812 and 7
				— services.	, 01
			6300	Other business services, NEC.	7399
			0077	Other business services, 1.12e.	1377
64 Repair services.	641	Automobile repair and services.	6411	Automobile repair services.	753
- Repair Services.	0-1	Automobile repair and services.		Automobile wash services.	Incl. 7541
				Other automobile services (except	111C1. / J-r1
Incl. 7541			011 >	Other automobile services (except	
— IIICI. /341 ————————————————————————————————————				pair and wash), NEC.	
	649	Other repair services, NEC.	6401	Electrical repair services (except	Incl. 7621
	017	Other repair services, NEC.	0171	radio and television).	
			6402		7/22
				Radio and television repair services.	7622
			- 6493	Watch, clock, and jewelry repair	763
			C101	— services.	764
			6494	Reupholstery and furniture repair	764
				services.	7.04
				Armature rewinding services.	7694
			6499	Other repair services, NEC.	7699
65 Professional services.	651	Medical and other health serv-	6511 -	Physicians' services.	801, 803,
		ices.			and 804
			6512	Dental services.	802
				Hospital services.	806
			6514	Medical laboratory services.	8071
			<u>6515</u>	Dental laboratory services.	8072
			6516	Sanitariums, convalescent, and rest	8092
			0510	home services.	0072
	-		6517		
• .			6317	Medical clinics—out-patient	
rvices			<i>45</i> 10	Other medical and health services	8099
			0317	Other medical and health services,	8099
				— NEC.	
	652	Legal services.	6520	Legal services.	811
	032	Legar services.	0520	Legar services.	011
	659	Other professional services,	6591	Engineering and architectural serv-	891
		NEC.		ices.	~~ -
		TIEC.	6592	Educational and scientific research	892
				services.	0,2
			6593	Accounting, auditing, and book	893
			0575		- 675
			6504	keeping services.	T1 900
			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.	0011	tractor services.	131
SCIVICES.		Services.	6619		16
			0017		10
			-	tor services, NEC.	

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

<i>a</i> 1	~	<i>a</i> 1		<i>a</i> ,	~	SIC +	- Le
Code	Category	- Code	Category	Code	Category	Reference [†]	- <i>Cl</i>
		662		6621	DI 1: 1 .: 1 .: 1	171	
66	Contract construction services—Continued	662	Special construction trade services.	6621	Plumbing, heating, and air conditioning services.	171	
				6622	Painting, paper hanging, and decor-	172	
				((22	ating services.	172	
					Electrical services.	173	
					Masonry, stonework, tile setting, and plastering service.	174	
					Carpentering and wood flooring.	175	
					Roofing and sheet metal services.	176	
				6627	Concrete services.	177	
				6628	Water well drilling services.	178	
				6629	Other special construction trade services, NEC.	179	
67	Governmental services.	671	Executive, legislative, and ju-	6710	Executive, legislative, and judicial	Incl. 919,	
			dicial functions.		functions.3	929, and 939	
		672	Protective functions and their	6721	Police protection and related activi-	Incl. 919.	
			related activities.		ties.	929, and 939	
				6722	Fire protection and related	, _, ,	
ctivities.	Incl. 919,			**	F		
						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,		
IEC.	Incl. 919,					020 1020	
						929, and 939	
		675	Military bases and reservations.4	6751	Military training bases.	Incl. 919	
						and 929	
				6752	Military defense installations.	Incl. 919	
						and 929	
				6753	Military storage depots and trans-	Incl. 919	
				<i>C</i> 7.5.4	portation centers.	and 929	
				6754	Military maintenance centers.	Incl. 919 and 929	
				6755	Military administration or command	Incl. 919	
				6756	centers. Military communication centers.	and 929 Incl. 919	
				0730	minute Communication Concers.	and 929	
				6759	Other military bases and reserva-	Incl. 919	
					tions, NEC.	and 929	
68	Educational services.	681	Nursery, primary, and secondary	6811	Nursery schools.	Incl. 821	
50	Ladeational Sci vices.	001	russery, primary, and secondary	0011	randing bolloom.	11101. 021	_

	education.		Primary (elementary) schools.5	Incl. 821
		6813	Secondary schools.6	Incl. 821
	University, college, junior college,	6821	Universities and colleges.	Incl. 8221
	and professional school edu-	6822	Junior colleges.	Incl. 8222
	cation.	6823	Professional schools.	Incl. 8221
	Special training and schooling.	6831	Vocational or trade schools.	8242
		6832	Business and stenographic schools.	Incl. 8299
		6833	Barber and beauty schools.	Incl. 723
			<u> </u>	and 724
		6834	Art and music schools.	Incl. 8299
		6835	Dancing schools.	Incl. 7911
		6836	Driving schools.	Incl. 8299
		6837	Correspondence schools.	8241
			Other special training and	
schooling, Incl. 8299 A				
			NEC.	

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

LEVELS -- Continued

	Category	Code	Category	Code	Category	SIC La Reference [‡] Cl
69 M	liscellaneous services.	691	Religious activities.7	6911 6919	Churches, synagogues, and temples. Other religious activities, NEC.	Incl. 866
		692	Welfare and charitable services.	6920	Welfare and charitable services.	867
		699	Other miscellaneous services, NEC.	6991 6992	Business associations. Professional membership organiza	861 862
				6993	tions. Labor unions and similar labor organizations.	863
				6994	— Organizations: — Civic, social, and fraternal associa— — tions:	864
	_			6999	Other miscellaneous services, NEC.	

FOOTNOTES

-¹The SIC codes are listed for purposes of reference. They are the legislature and courts. All operational activities (e.g., shipbuilding, codes in the SIC system that most nearly correspond to the 4-digit land separately under the respective use activity indicated. (See ch. III, see. A3, "The Use of Standard Industrial Classification Nomenclature.") A dash indicates that there include the installa-

is no corresponding SIC code.			tions used by	both the active military as well as the	
Reserves and the			j	•	
- ² Code 637"Warehousing and store	ige servic	es" include only those	National Guar		
facilities that are used by or are open			— ⁵ Code 6812-	"Primary (elementary) schools" may	
or may not include	•				
housing and storage is functionally ar through 6.	nd organi :	zationally linked to	a kindergarter	n, but they do include grades 1	
another activity (e.g., a general contra	actor or a	n apparel manufacturer).	-6Code 6813	"Secondary schools" are schools that	
include grades 7					
the facilities are identified and coded high schools.	the same	as the parent activity	through 12, pe	opularly known as junior and senior	
and with a code of 4 (warehousing an	ıd storage	e) in the auxiliary position.	— ⁷ Code 691—	"Religious activities" include only	
those places operated For example, 2310-4 is a warehouse of	and stora;	ge area of a manufacturer	for worship o	or for the promotion of religious	
activities. Activities					
of men's, youths', and boys' suits, ed	oats, and 	overcoats.	maintained by	the religious organizations (e.g.,	
schools, hospitals, pub- - Code 6710—"Executive, legislative	, and jud	icial functions" include	lishing houses	s, etc.) should be identified separately	
under the respective					
only the central and administrative of special authorities involved in govern		~	activity codes	.	
		, <u>6</u> . 			
— 71 Cultural activities and	711	Cultural activities.	7111	Libraries	823
- nature exhibitions.	,11	Cultural activities.		Museums.	Incl. 841
nature exhibitions.				Art galleries.2	Incl. 841
				Other cultural activities, NEC.	
			7117	Other cultural activities, IVEC.	
	712	Nature exhibitions.	7121	Planetaria.	
				Aquariums.	Incl. 8421
				Botanical gardens and arboretums.	Incl. 842
				Zoos.	mei. 612
				Other nature exhibitions, NEC.	
			/12/	Other nature exhibitions, IVEC.	
	719	Other cultural activities and	7191	Historic and monument sites.3	
	717				
		natura avhibitions NEC			
		nature exhibitions, NEC.		Other cultural activities and nature exhibitions, NEC.	
72 Public assembly.	721	nature exhibitions, NEC. Entertainment assembly.	7199 7211	Other cultural activities and nature exhibitions, NEC. Amphitheaters.	
72 Public assembly.	721		7199 7211	Other cultural activities and nature exhibitions, NEC.	
72 Public assembly.	721		7199 7211 7212 7213	Other cultural activities and nature exhibitions, NEC. Amphitheaters. Motion picture theaters. Drive-in-movies.	Incl. 7831 Incl. 7831
72 Public assembly.	721		7199 7211 7212 7213 7214	Other cultural activities and nature exhibitions, NEC. Amphitheaters. Motion picture theaters. Drive in movies. Legitimate theaters.	
	721		7199 7211 7212 7213 7214	Other cultural activities and nature exhibitions, NEC. Amphitheaters. Motion picture theaters.	
72 Public assembly. NEC.	721		7199 7211 7212 7213 7214	Other cultural activities and nature exhibitions, NEC. Amphitheaters. Motion picture theaters. Drive in movies. Legitimate theaters.	
	721		7199 7211 7212 7213 7214	Other cultural activities and nature exhibitions, NEC. Amphitheaters. Motion picture theaters. Drive in movies. Legitimate theaters.	
		Entertainment assembly.	7199 7211 7212 7213 7214 7219	Other cultural activities and nature exhibitions, NEC. Amphitheaters. Motion picture theaters. Drive in movies. Legitimate theaters. Other entertainment assembly,	Incl. 7831
		Entertainment assembly.	7199 7211 7212 7213 7214 7219	Other cultural activities and nature exhibitions, NEC. Amphitheaters. Motion picture theaters. Drive in movies. Legitimate theaters. Other entertainment assembly,	Incl. 7831
		Entertainment assembly.	7199 7211 7212 7213 7214 7219 7221 7222 7223	Other cultural activities and nature exhibitions, NEC. Amphitheaters. Motion picture theaters. Drive-in-movies. Legitimate theaters. Other entertainment assembly, Stadiums.s Arenas and field houses.	Incl. 7831 ————————————————————————————————————
		Entertainment assembly. Sports assembly.4	7199 7211 7212 7213 7214 7219 7221 7222 7223 7229	Other cultural activities and nature exhibitions, NEC. Amphitheaters. Motion picture theaters. Drive in movies. Legitimate theaters. Other entertainment assembly, Stadiums.s Arenas and field houses. Race tracks.6 Other sports assembly, NEC.	Incl. 7831 ————————————————————————————————————
		Entertainment assembly. Sports assembly.4 Public assembly, miscellane	7199 7211 7212 7213 7214 7219 7221 7222 7223 7229 ous 7231	Other cultural activities and nature exhibitions, NEC. Amphitheaters. Motion picture theaters. Drive-in-movies. Legitimate theaters. Other entertainment assembly, Stadiums.s Arenas and field houses. Race tracks.6 Other sports assembly, NEC. Auditoriums.	Incl. 7831 ————————————————————————————————————
		Entertainment assembly. Sports assembly.4	7199 7211 7212 7213 7214 7219 7221 7222 7223 7229 ous 7231 7232	Other cultural activities and nature exhibitions, NEC. Amphitheaters. Motion picture theaters. Drive in movies. Legitimate theaters. Other entertainment assembly, Stadiums.s Arenas and field houses. Race tracks.6 Other sports assembly, NEC. Auditoriums. Exhibition halls.	Incl. 7831 ————————————————————————————————————
		Entertainment assembly. Sports assembly.4 Public assembly, miscellane	7199 7211 7212 7213 7214 7219 7221 7222 7223 7229 ous 7231 7232	Other cultural activities and nature exhibitions, NEC. Amphitheaters. Motion picture theaters. Drive-in-movies. Legitimate theaters. Other entertainment assembly, Stadiums.s Arenas and field houses. Race tracks.6 Other sports assembly, NEC. Auditoriums.	Incl. 7831 ————————————————————————————————————
NEC.		Entertainment assembly. Sports assembly.4 Public assembly, miscellane	7199 7211 7212 7213 7214 7219 7221 7222 7223 7229 ous 7231 7232 7239	Other cultural activities and nature exhibitions, NEC. Amphitheaters. Motion picture theaters. Drive in movies. Legitimate theaters. Other entertainment assembly, Stadiums.s Arenas and field houses. Race tracks.6 Other sports assembly, NEC. Auditoriums. Exhibition halls.	Incl. 7831 ————————————————————————————————————
NEC.	722	Entertainment assembly. Sports assembly.4 Public assembly, miscellane purposes. Other public assembly, NEC	7199 7211 7212 7213 7214 7219 7221 7222 7223 7229 Ous 7231 7232 7239	Other cultural activities and nature exhibitions, NEC. Amphitheaters. Motion picture theaters. Drive in movies. Legitimate theaters. Other entertainment assembly, Stadiums.s Arenas and field houses. Race tracks.6 Other sports assembly, NEC. Auditoriums. Exhibition halls. Other public assembly, NEC.	Incl. 7831 Incl. 7941 Incl. 7948
NEC.	722	Entertainment assembly. Sports assembly.4 Public assembly, miscellane purposes.	7199 7211 7212 7213 7214 7219 7221 7222 7223 7229 Ous 7231 7232 7239 7.7290 7.7211	Other cultural activities and nature exhibitions, NEC. Amphitheaters. Motion picture theaters. Drive in movies. Legitimate theaters. Other entertainment assembly, Stadiums.s Arenas and field houses. Race tracks.6 Other sports assembly, NEC. Auditoriums. Exhibition halls. Other miscellaneous assembly,	Incl. 7831 ————————————————————————————————————

*Fairgrounds are Class B Land; when used for automobile and motorcycle racing, Fairgrounds are Class C Land.

B-20

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

Code	Category	Code	Category	Code	Category	— SIC —Referenc
-73	Amusements-Continued	739	Other amusements, NEC.	7391	Penny areades.	Incl. 7949
				7392	Miniature golf.	Incl. 7949
					Golf driving ranges.	Incl. 7949
					Go-cart tracks.	Incl. 7949
				7399	Other amusements, NEC	Incl. 7949
74	Recreational activities.	741	Sports activities.	7411	Golf courses (without country club).	
					Golf courses (with country club).	7947
					Tennis courts.	
					Ice skating	Incl. 794
					Roller skating	Incl. 794
				7416	Riding stables.	
					Bowling	Incl. 793
				7418	Skiing and tobogganing.	
				7419	Other sports activities, NEC.	
		742	Playgrounds and athletic areas.	7421	Play lots or tot lots.7	
				7422	Playgrounds.8	
				7423	Playfields or athletic fields.9	
				7424	Recreation centers (general).10	
				7425	Gymnasiums and athletic clubs.	Incl. 794
EC.					Other playground and athletic areas,	
LC.						
		743	Swimming areas.	7431	Swimming beaches.11	
				7432	Swimming pools.12	794
		744	Marinas.13	7441	Yachting clubs.	Incl. 794
				7442	Boat rentals and boat access sites.	
				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.		General resorts.15	
				7512	Dude ranches.	Incl. 703
				7513	Health resorts.	Incl. 809
				7514	Ski resorts.	
				7515	Hunting and fishing clubs.18	Incl. 703
					Other resorts, NEC.	
		752	Group or organized camps.	7520	Group or organized camps.17	Incl. 703
76	Parks.	761	Parks-general recreation.	7610	Parks-general recreation:18	

79 Other cultural, entertain 790 Other cultural, entertainment, 790 Other 200 Other 790 Other 190 Other 19		762 Parks leisure and ornamental.	7620 Parks leisure and ornamental.19
790 Other cultural, entertain ment, and ment, and recreational and recreational netivities, NEC. FOOTNOTES Tector, swings, climbing The SIC codes are listed for purposes of reference. They are the coded only when found as a codes in the SIC system that most nearly correspond to the 4-digit serving mother activity (e.g. tand use netivity) indicated. (See ch. III. see, A3. "The Use of Standard Industrial Classification Nomenclature,") A dash indicates that there have been developed for in no corresponding SIC code. (See ch. III. see, A3. "The Use of Standard Industrial Classification Nomenclature,") A dash indicates that there have been developed for in no corresponding SIC code. (See ch. III. see, A3. "The Use of Standard Industrial Classification Nomenclature,") A dash indicates that there have been developed for in no corresponding SIC code. (See ch. III. see, A3. "The Use of Standard Industrial Classification Nomenclature,") A dash indicates that there have been developed for in no corresponding SIC code. (See ch. III. see, A3. "The Use of Standard Industrial Classification Nomenclature,") A dash indicates that there have been developed for in no corresponding SIC code. (See ch. III. see, A3. "The Use of Standard Industrial Classification Nomenclature,") A dash indicates that there have been as to be compared to the see and the compared to the see and to the compared		702 Turks folsare and officineman.	7020 Tarks leisure and ornamental.17
ment, and recreational activities, NEC. POOTNOTES tectors, swings, climbing —The SEC codes are listed for purposes of reference. They are the coded only when found as a codes in the SEC system that most nearly correspond to the 4 digit serving another netivity (e.g., a management of the substitution of t		769 Other parks, NEC.	7690 Other parks, NEC.
ment, and recreational activities, NEC. POOTNOTES tectors, swings, climbing —The SEC codes are listed for purposes of reference. They are the coded only when found as a codes in the SEC system that most nearly correspond to the 4 digit serving another netivity (e.g., a management of the substitution of t			
FOOTNOTES testers, swings, climbing - "The SEC codes are listed for purposes of reference. They are the coded only when found as a codes in the SEC system that most nearly correspond to the 4 digit serving another activity indicated. (See ch. III. see. A3, "The Use of Standard Industrial Classification Nomenclature.") A dash indicates that there have been developed for in one corresponding SEC code. **The SEC constraints** **The SEC code only when found as a separate activity and not subsidiary to or serving another activity indicates that there have been developed for in one corresponding SEC code. **The SEC code only when found as a separate activity and not subsidiary to or serving mother and to provide the subsidiary to or serving mother and to provide the subsidiary to or serving mother and to provide and to the second and to provide and to provide and to provide and to the second		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Contain such facilities as sand boxes, slides, testers, swings, climbing The SIC codes are listed for purposes of reference. They are the 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., Ill., see, A.7, "The Use of Standard Industrial Classification Nomenclature,"). A dash indicates that there have been developed for in on corresponding SIC code. in the Code 7413 "Art galleries" do not include those galleries that sell subsidiary to or serving another activity indicates that there have been developed for in on corresponding SIC code. in the Code 7421 "And palleries" do not include those galleries that sell subsidiary to or serving another activity and not subsidiary to or serving another activity (e.g., a school). "Code 7421 "Historic and monument sites" include those locations sports (e.g., baseball, foot set uside for no other purpose than to commemorate an historical event, may be provided. They activity, or person. are activity or person. are activity and not subsidiary to or serving another activity (e.g., a school). "Code 7421 "Subdimes" include those used for individual sports, for all ages and interests. "Enterpril" include diversified and coded only when found any as separate activity and not subsidiary to or serving another activity (e.g., a school). "Code 7421 "Subdimes" include those used for individual sports, for all ages and interests. "Enterpril" include diversified and coded only when found any activities, e.g., horse reacing and automobile racing, as well as those used for individual racing based areas that have been activities, e.g., horse reacing and automobile racing,		and recreational activities, NEC.	recreational activities, NEC.
ectors, swings, elimbing - The SIC codes are listed for purposes of reference. They are the coded only when found as a codes in the SIC system that most nearly correspond to the 4-digit serving another netivity (e.g.; land use activity indicated. (See ch. III. see, A3, "The Use of Standard Industrial Classification Nomenclature,") A dash indicates that there have been developed for in one orresponding SIC code, required in the substidiary to or serving another are objects commercially. Commercially commerc	activities, NEC.		
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-"The SIC codes are listed for purposes of reference. They are the coded only when found as a codes in the SIC system that most nearly correspond to the 4-digit serving another activity (e.g. and the size of Standard Industrial Classification Nomenclature.") A dash indicates that there have been developed for in one corresponding SIC code. identified and coded only when - 2 code 7112 "Art galleries" do not include those galleries that sell subsidiary to or serving another at objects commercially. Commercial sales are coded 5999, "Other retail rade. NEC." contain a playground as - 3 code 7191 "Historic and monument sites" include those locations sports (e.g., baseball, foot set saide for no other purpose than to commemorate an historical event, may be provided. They are included those used for individual sports, (e.g., a school). reas used for nonparticipating sports. (general) "include diversified — Code 7221 "Shadiums" include those used for individual sports, e.g., baseball or football, as well as those used for individual sports, e.g., baseball or football, as well as those used for individual sports, e.g., baseball or football, as well as those used for individual sports, e.g., baseball or football, as well as those used for individual rucing beach areas that have been activities, e.g., horse racing and automobile racing, as well as those used for individual rucing beach areas that have been activities, e.g., baseball or football, as reclaimed those used for individual rucing beach areas that have been activities, e.g., borse racing and automobile racing, as well as those used or individual rucing beach areas that have been activities, e.g., borse racing and automobile racing, as well as those used or individual rucing beach areas that have been activities, e.g., borse racing and automobile racing, as well as those used or individual rucing beach areas that have been activities, e.g., borse racing and automobile racing, as well as those used or individual rucing beach areas that have been activities. 2			contain such facilities as said boxes, shaes,
codes in the SIC system that most nearly correspond to the 4 digit serving another activity (e.g. land use activity indented. (See ch. III. see. A3, "The Use of Standard Industrial Classification Nomenclature,") A dash indicates that there have been developed for is no corresponding SIC code. identified and coded only when —"Code 7113—"Art galleries" do not include those galleries that sell subsidiary to or serving another art objects commercially. Commercial sales are coded 5999, "Other rettil trade. NEC." —"Code 7423—"Playfields or athletic fields" rettil trade. NEC." —"Code 7421—"Bistorie and monument sites" include those locations sports (e.g. hasholl, foot- set uside for no other purpose than to commemorate an historical event, may be provided. They activity, or person. as a separate activity and not —"Code 7223—"Playfields or athletic fields" contain a playgrounds —"Code 7423—"Playfields or athletic fields" contain a playground as —"Code 7423—"Playfields or athletic fields" contain a playground as —"Code 7421—"Bistorie and monument sites" include those locations sports (e.g., a school). "Code 7421—"Bistorie and monument sites" include sonly the public assembly (e.g., a school). "Code 7421—"Sports assembly" includes only the public assembly (e.g., a school). "Code 7421—"Statiums" include those used for individual sports, or all ages and interests. "Energy months activity and not —"Code 7421—"Statiums" include those used for individual sports, or all ages and interests. "The recreation centers may contain, but are not limited to a gymnastum, tes. —"Code 7421—"Race tracks" include those used for individual racing beach areas that have been activities, e.g., horse racing and automobile racing, as well as those used only when they are not a part of a larger agivity (e.g., a park). —"Code 7421—"Play for to total," are small areas developed espe -"Code 7421—"Play for the purpose of winding Table and the part of a larger agivity (e.g., a park). "Code 7421—"Play for the for total," are small areas developed		es of reference. They are the	apparatus etc. They are identified and
eodes in the SIC system that most nearly correspond to the 4 digit serving another activity (e.g. against the serving another activity indicated. (See ch. III. see. A3, "The Use of Standard Industrial Classification Nomenclature,") A dash indicates that there have been developed for is no corresponding SIC code. identified and coded only when - "Code 711." Ant galleries" do not include those galleries that sell subsidiary to or serving another art objects commercially. Commercial sales are coded 5999, "Other retail trade, NEC." centain a playground as - "Code 710." Historic and monument sites" include those locations sports (e.g., baseball, foot set saide for no other purpose than to commemorate an historical event, may be provided. They are identified and coded only when found as a separate activity and not subsidiary to or serving another art objects commercially. Commercial sales are coded 5999, "Other retail trade, NEC." centain a playground as - "Code 712." Thistoric and monument sites" include those locations sports (e.g., baseball, foot set saide for no other purpose than to commemorate an historical event, may be provided. They are identified and coded only when found as a separate activity and not subsidiary to or serving another activity (e.g., a schoot). "Code 722." Sports assembly" includes only the public assembly subsidiary to or serving another activity (e.g., a schoot). "Code 722." Studiums" include those used for individual sports, for all ages and interests. e.g., baseball or football, as well as those used for individual racing beach areas that have been activities, e.g., horse racing and automobile racing, as well as those used seed in the purpose of swimming. They are identified for several racing and automobile racing, as well as those used seed in the purpose of swimming. They are identified for several racing and automobile racing, as well as those used seed specifically for the purpose of swimming. They are identified for several racing and automobile racing, as well as those used for	coded only when found as a	as of reference. They are the	apparatus, etc. They are identified and
land use activity indicated. (See ch. III. see. A3, "The Use of Standard Industrial Classification Nomenclature.") A dash indicates that there have been developed for it in no corresponding SIC code. -Code 7422 "Playgrounds" are areas that subsidiary to or serving another activity and not subsidiary to or serving another art objects commercially. Commercial sales are coded 5999, "Other retail trade, NEC." -code 7413 "Art galleries" do not include those galleries that sell subsidiary to or serving another art objects commercially. Commercial sales are coded 5999, "Other retail trade, NEC." -code 7420 "Playfields or athletic fields" contain a playground as "Code 7421." "Bistoric and monument sites" include those locations sports (e.g., baseball, foots et aside for no other purpose than to commemorate an historical event, may be provided. They are include those only the public assembly (e.g., a school). -Code 722 "Sports assembly" includes only the public assembly subsidiary to or serving another activity (e.g., a school). -Code 722 "Sports (e.g., baseball foots that site is included those locations sports (e.g., baseball foots are superate activity and not as a separate activity and not are included to a decrease of the state of the subsidiary to recreation centers of the subsidiary to or serving another activity (e.g., a school). -Code 722 "Sports (e.g., baseball foots are small areas seembly included sports, for all ages and interests. -g., baseball or football, as well as those used for individual sports, for all ages and interests. -g. baseball or football, as well as those used for individual racing baseball areas that have been entivities, e.g., horse racing and automobile racing, as well as those used seed areas that have been entivities, e.g., horse racing and automobile racing, as well as those used seed for football, as well as those used for individual racing based areas that have been entivities, e.g., physic precipity (e.g., a school). -Code 7212 "Racingma" include those used for individual		rly correspond to the 4-digit	separate activity and not subsidiary to or
Industrial Classification Nomenclature,") A dash indicates that there have been developed for in no corresponding SIC code. identified and coded only when — Code 7113. "Art galleries" do not include those galleries that sell subsidiary to or serving another at objects commercially. Commercial sales are coded 5999, "Other retail trade, NEC." — Code 7113. "Art galleries" do not include those galleries that sell subsidiary to or serving another at objects commercially. Commercial sales are coded 5999, "Other retail trade, NEC." — Code 7117. "Historic and monument sites" include those locations sports (e.g., baseball, foot set aside for no other purpose than to commemorate an historical event, may be provided. They activity, or person. — are identified and coded only when found as a separate activity and not — Code 7122. "Sports assembly" includes only the public assembly (e.g., a schoot). — Sports assembly includes only the public assembly (e.g., a schoot). — Code 7221. "Standiums" include those used for individual sports, for all ages and interests. — e.g., baseball or football, as well as those used for individual sports, for all ages and interests. — e.g., baseball or football, as well as those used for individual racing beach areas that have been entivities, e.g., horse racing and automobile racing, as well as those used swimming. They are identified for several racing activities, e.g., horse racing and automobile racing, as well as those used for individual racing beach areas that have been entivities, e.g., horse racing and automobile racing, as well as those used for individual racing beach areas that have been entivities, e.g., horse racing and automobile racing, as well as those used swimming. They are identified for several racing activities, e.g., horse racing and automobile racing, as well as those used only when they are not a part of a larger equivity (e.g., a park). - Code 7421. "Play lots or tot lots" are small areas developed esperially for preschool or elementary school aged children. They may b		,	
Industrial Classification Nomenclature,") A dash indicates that there have been developed for in no corresponding SIC code. identified and coded only—when -2 Code 7113 —Art galleries" do not include those galleries that sell subsidiary to or serving another art objects commercially. Commercial sales are coded 5999, "Other retail trade, NEC." contain a playground as -2 Code 7191 —Thistoric and monument sites" include those locations sports (e.g., a school). Set aside for no other purpose than to commemorate an historical event, may be provided. They are identified and coded only when found as a separate activity and not subsidiary to or serving another activity e.g., a school). -4 Code 722 —"Sports assembly" includes only the public assembly (e.g., a school). -4 Code 722 —"Sports assembly" includes only the public assembly (e.g., a school). -5 Code 722 —"Sports assembly" includes only the public assembly (e.g., a school). -6 Code 722 —"Sports assembly" includes only the public assembly (e.g., a school). -6 Code 722 —"Sports assembly" include those used for individual sports, regreation for a wide variety of activities for all ages and interests. -6 Code 722 —"Stadiums" include those used for individual sports, recreation for a wide variety of activities for all ages and interests. -6 Code 7223 —"Race tracks" include those used for individual racing beach areas that have been activities, e.g., horse racing and automobile racing, as well as those used seed specifically for the purpose of swimming. They are identified for several racing activities. -6 Code 7421 —"Play lots or tot lots" are small areas developed espesially for preschool or elementary school aged children. They may B 21 — B. A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES — TWO, THREE, AND FOUR DIGIT		I. sec. A3. "The Use of Standard	apartment house or playground).
have been developed for is no corresponding SIC code. igentified and coded only when — Code 7113 —"Art galleries" do not include those galleries that sell subsidiary to or serving another art objects commercially. Commercial sales are coded 5999, "Other retail trade, NEC." — Code 7423 —"Playfields or athletic fields" contain a playground as — Code 7191 —"Historic and monument sites" include those locations sports (e.g., baseball, foot set aside for no other purpose than to commemorate an historical event, may be provided. They activity, or person. — are identified and coded only when found as a separate activity and not — "Code 722 —"Sports assembly" includes only the public assembly — code 722 —"Sports assembly" includes only the public assembly — "Code 722 —"Statiums" include those used for individual sports, for all ages and interests — Code 7222 —"Statiums" include those used for individual sports, for all ages and interests — "Code 723 —"Ree tracks" include those used for individual racing — "Code 723 —"Ree tracks" include those used for individual racing — "Code 723 —"Ree tracks" include those used for individual racing — "Code 7241 —"Statiums" include those used for individual racing — "Code 723 —"Ree tracks" include those used for individual racing — "Code 723 —"Ree tracks" include those used for individual racing — "Code 7241 —"Tay lots or tot lots" are small areas developed espe — separately identified if they are relativities, — code 7412 —"Play lots or tot lots" are small areas developed espe — separately identified if they are relativities, — code 7421 —"Play lots or tot lots" are small areas developed espe — separately identified if they are relativity in the purpose of swimming. They are identified if they are relativity in the purpose of special processes of the purpose of swimming. They are identified if they are relativity in the purpose of special processes of the purpose of special processes of the purpose of special processes of the purpose of the purpose of special processes of the purpose			Code 7422—"Playgrounds" are areas that
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	AND FOUR-DIGIT	I EVEL C Continued	

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independent of other functions (e.g., code 72, "Public assembly" or 16Code 7515—"Hunting and fishing clubs" include areas on which

released for purposes of hunting	code 11, "Household units"). They	may be inc	loor or outdoor pools.	artificia	lly propagated game or fish are	
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816 Farms and ranches (livestock 8161 Farms and ranches (predominantly cattle). 8162 Farms and ranches (predominantly hog). 8163 Farms and ranches (predominantly sheep). 8164 Farms and ranches (predominantly goat). 8169 Farms and ranches (other livestock), NEC.					tables).	
816 Farms and ranches (livestock 8161 Farms and ranches (predominantly cattle). 8162 Farms and ranches (predominantly hog). 8163 Farms and ranches (predominantly sheep). 8164 Farms and ranches (predominantly goat). 8169 Farms and ranches (other livestock), NEC.						
816 Farms and ranches (livestock 8161 Farms and ranches (predominantly cattle). 8162 Farms and ranches (predominantly hog). 8163 Farms and ranches (predominantly sheep). 8164 Farms and ranches (predominantly goat). 8169 Farms and ranches (other livestock), NEC.	-	815	Farms (predominantly dairy	8150	Farms (predominantly dairy prod-	
other than dairy).3 cattle). 8162 Farms and ranches (predominantly hog). 8163 Farms and ranches (predominantly sheep). 8164 Farms and ranches (predominantly goat). 8169 Farms and ranches (other livestock), NEC.			products).3		ucts).	
other than dairy).3 cattle). 8162 Farms and ranches (predominantly hog). 8163 Farms and ranches (predominantly sheep). 8164 Farms and ranches (predominantly goat). 8169 Farms and ranches (other livestock), NEC.						
other than dairy).3 cattle). 8162 Farms and ranches (predominantly hog). 8163 Farms and ranches (predominantly sheep). 8164 Farms and ranches (predominantly goat). 8169 Farms and ranches (other livestock), NEC.		816	Farms and ranches (livestock	8161	Farms and ranches (predominantly	
8162 Farms and ranches (predominantly hog). 8163 Farms and ranches (predominantly sheep). 8164 Farms and ranches (predominantly goat). 8169 Farms and ranches (other livestock), NEC.						
hog): 8163 Farms and ranches (predominantly sheep): 8164 Farms and ranches (predominantly goat): 8169 Farms and ranches (other livestock), NEC.			<u> </u>	8162		
8163 Farms and ranches (predominantly sheep). 8164 Farms and ranches (predominantly goat). 8169 Farms and ranches (other livestock), NEC.				-		
sheep). 8164 Farms and ranches (predominantly goat). 8169 Farms and ranches (other livestock), NEC.				8163		
8164 Farms and ranches (predominantly goat). 8169 Farms and ranches (other livestock), NEC.				0105		
				8164		
——————————————————————————————————————				0107		
NEC:				9160	Forms and ranches (ather livests -1-)	
				8109		
817 Farms (predominantly poultry).3 8170 Farms (predominantly poultry).					NEC.	
81/ Farms (predominantly poultry).3 8170 Farms (predominantly poultry)		a - =		01=-		
		817	Farms (predominantly poultry).3	8170	Farms (predominantly poultry).	

nance).3

activities, NEC.

818 Farms (general no predomi 8180 Farms (general no predominance).

819 Other agriculture and related 8191 Range and grassland pastures (not

farm or ranch).4

			activities, NEC.		farm or ranch). 4	
				8192	Horticultural specialties.	0192
				8193	Apiary farms.	
Incl.	0193					
				8194	Farms and ranches (predomi-	
Incl.	0193					
					nantly horse raising).	
				8199	Other agriculture and related activi-	
					ties, NEC.	
82 112	Agricultural related activi-	821	- Agricultural processing.3	8211	Cotton ginning and compressing.	
	ties.			8212	Grist milling services.	
13				8213	Corn shelling, hay baling, and	
resh- ()714					
				8214	ing services.	
15				0214	Contract sorting, grading, and pack-	
					— aging services (fruits and vegeta— — bles).	
				8219	— ties). Other agricultural processing serv-	
'19					ices, NEC.	
					— ICES, NEC.	
el. 0722	<u> </u>	822	Animal husbandry services.	8221	Veterinarian services.	
C1. 0722	-			8222	Animal hospital services.	
el. 0722	,			8223	Poultry hatchery services.	
23						
29	-C			8229	Other animal husbandry services,	
2)					NEC.	
A CIT		IDENIE	B-22	ICE A CID		
OUR-I		IDEN I	H 'Y ING AND CODING LAND (JSE ACTI	WITIES TWO-, THREE-, AND	
			LEVELS Continued			
						SIC
	Category	Code	Category	Code	Category	Reference
Code	Caregory					
Code	Curegory					
Code 82	- Agricultural related activi	829	Other agricultural related activi		Horticultural services.	0731
		829	Other agricultural related activities, NEC.		Horticultural services. Other agricultural related activities, NEC.	
	Agricultural related activities—Continued		Other agricultural related activities, NEC. Commercial forestry produc	8299	Other agricultural related activities, NEC:	— 0731 ———
82	Agricultural related activities—Continued	831	ties, NEC.	8299	Other agricultural related activities, NEC. Timber production—predominantly for pulp wood.	0731
82	Agricultural related activities—Continued Forestry activities and re-	831	ties, NEC. Commercial forestry produc	8299	Other agricultural related activities, NEC. Timber production—predominantly for pulp wood. Timber production—predominantly	——————————————————————————————————————
82	Agricultural related activities—Continued Forestry activities and re-	831	ties, NEC. Commercial forestry produc	8299 8311 8312	Other agricultural related activities, NEC. Timber production—predominantly for pulp wood. Timber production—predominantly for saw logs.	0731
82	Agricultural related activities—Continued Forestry activities and re-	831	ties, NEC. Commercial forestry produc	8299 8311 8312	Other agricultural related activities, NEC. Timber production—predominantly for pulp wood. Timber production—predominantly	——————————————————————————————————————

				Timber production mixed uses.	0042
			8315	Tree products production predomi-	0842
				nantly gum extracting (except pine	
				gum) and bark.	
			8316	Tree products production-predomi-	0843
				nantly pine gum extraction.	
			8317	Timber and tree products produc	
				tion-mixed uses.	
			8319	Other commercial forestry produc-	
				tion, NEC.	
	832	Forestry services.		Forest nurseries.	0822
			8329	Other forestry services, NEC.	0851
	920	Other forestmy activities and re	9200	Other forestmy activities and related	
	839	Other forestry activities and re-	8390	Other forestry activities and related	
		lated services, NEC.		services, NEC.	
84 Fishing activities and re-	2/1	Fisheries and marine products.s	2/11	Finfish fisheries.	0912
lated services.	0+1	1 isheries and marme products.8		Shellfish fisheries.	0912
rated services.					0,10
			8419	Other fisheries and marine products, NEC:	0914 and 09
	942	Eighom: gomioog	9421	— NEC. Fish hatcheries.	Incl. 0989
	042	Fishery services.			Incl. 0989
			8429	Other fishery services, NEC.	- inci. 0989
	849	Other fishery activities and re	8490	Other fishery activities and related	
	017	lated services, NEC.	0170	services. NEC.	
		lated services, IVEC.		scrvices, NEC.	
85 Mining activities and re-	851	Metal ore mining.	8511	Iron ore-mining.	101
lated services.				Copper ore mining.	102
lated services.			9512 9513	Lead and zinc ore mining.	102 103
				Gold and silver ore mining.	103
				Bauxite and other aluminum ore	105
			0313		103
			0516	mining.	106
			8516	Ferroalloy ore (except vanadium)	106
				mining.	
			8519	Other metal ore mining, NEC.	109
	852	Coal mining.	9531	Anthracite coal mining.	111
	032	Coar mining.		Bituminous coal mining.	1211
			8323	Lignite coal mining.	1212
	853	Crude petroleum and natural gas.	8530	Crude petroleum and natural gas.	131
	055	crude petroleum and natural gas.	0550	Crude petroleum and natural gas.	131
	854	Mining and quarrying of non-	8541	Dimension stone.	141
		metallic minerals (except		Crushed and broken stone	
ncluding 142					
		fuels).		riprap) quarrying.	
		<u> </u>	8543	Sand and gravelquarrying.	144
				Clay, ceramic, and refractory	
iiner 145				,	
				als-mining.	
			8545	Chemical and fertilizers (mineral)	147
				mining.	
			8549	Other mining and quarrying of non-	148
				metallic minerals (except fuels),	1.0
EC.				(cepe racis),	
	855	Mining services.	8551	Metal mining services.	108
		6	8552	Coal mining services.	
112 and 1212					

				8553	Crude, petroleum and gas field	138
					services.	
				8554	Nonmetallic mining (except fuel)-	148
-				0.550	services.	
				8559	Other mining services, NEC.	
——89 extrac-	Other resource production	890 C	Other resource production and	8900	Other resource production and	
	and extraction, NEC.		extraction, NEC.		tion, NEC.	
			B-23			

$\textbf{B.} \quad \textbf{A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES -- TWO-, THREE-, AND FOUR-DIGIT \\$

- The SIC codes are listed for purposes of reference. They are the includes only preliminary codes in the SIC system that most nearly correspond to the 4 digit land extensive processing, packing. - The SIC codes are listed for purposes of reference. They are the includes only preliminary codes in the SIC system that most nearly correspond to the 4 digit land extensive processing, packing. - The SIC codes are listed for purposes of reference. They are the includes only preliminary codes in the SIC system that most nearly correspond to the 4 digit land extensive processing, packing. - The SIC codes are listed for purposes of reference. They are the includes only preliminary codes in the SIC cystem that most nearly corresponding of the code. - The SIC codes are listed for purposes of reference. They are the includes only preliminary codes in the section of the code. - The SIC codes are listed for purposes of reference. They are the includes that there is no every code and kindred products. Any examining or manufacturing is coded 21; - The SIC codes are listed for purposes of the land is considered that the there are not mode and related to be in primary use of the land. It is an encurred to be in primary use of the land. It is an encurred to the experts activities and related sevices. The categories of land is considered to be in this classification are based upon primary use of the land. It is an entire and not a sociated area surrounding the residence, presented an entire and not experience of the considered for investock or poultry purposes. The 10 acres stock may also be taking place within these forested area surrounding the residence. - The SIC codes are entired to the recognized that other activities and related to a the set types of activities and related to the experience of the secondary in nature and not associated area should be inked to in this classification are based upon the secondary in nature and not a sociated area should be inked to grow tree crops for industrial wood or to obtain - The	FOOTNOTES	farm or ranch. These areas are usually part
-"The SIC codes are listed for purposes of reference. They are the includes only-preliminary codes in the SIC system that most nearly correspond to the 4-digit land extensive processing, packing the searching includes. Any consist of several codes in the SIC system that most nearly correspond to the 4-digit land extensive processing, packing the searching includes (See ch. III, Se. A3, "The Use of Standard considered to be in primary use of the land. It is a search of the search of secondary in nature and not associated area surrounding the residence. Search of the sea	of the public domain in	• •
includes only preliminary consistency in the SIC system that most nearly correspond to the 4-digit land extensive processing, packing, use activity indicated. (See ch. III. Se. A3, "The Use of Standard "Food and kindred products." Industrial Classification Nomenclature.") A dash indicates that there is no corresponding SIC code. "Code 81." "Agriculture." A parcel of land is considered to be in primary use of the land. It is agricultural use if 10 or more acres are under cultivation, in tree or recreation or the graving of live bush crops, or are used for investock or poultry purposes. The 10 acres forested areas. However, may include the area of the residence, if there is one, and the immediate secondary in nature and not associated area surrounding the residence. —3 farm may consist of several ownership or rented parcels of land 2410), located within the that are nonconfiguous. However, each parcel should be linked to identified. —4 fight entegory, e.g., code 8120, "Farms (predominant crops, cash that are nonconfiguous. However, cach parcel should be linked to identified. —5 or 4 digit entegory, e.g., code 8120, "Farms (predominant crops, cash that are hong managed or grains)." —1 industrial wood." includes those area farm area) excluding the area used by farm residences and associated crees. Faceptions to this rule are: —6 code 83. "Forestry activities and related stock as "Forestry activities are considered stock as "Forestry activities and related stock as "Forestry activities are considered stock as "Forestry activities are considered stock as "Fo		which grazing has been permitted.
extensive processing, packing: use activity indicated. (See ch. III, Se. A3, "The Use of Standard "Food and kindred products— Industrial Classification Nomenclature.") A dash indicates that there is no corresponding SIC code. sprices." The entegories "Code 81. "Porestry activities and related sprices." The entegories "Code 81. "Agriculture." A purcel of land is considered to be in primary use of the land. It is agricultural use if 10 or more acres are under cultivation, in tree or recreation or the grazing of live. Bush crops, or are used for livestock or poultry purposes. The 10 acres forested areas. However, may include the area of the residence, if there is one, and the immediate secondary in nature and not associated area surrounding the residence. 24 Agrin may consist of several ownership or rented parcels of land 2410), located within the that are noncontiguous. However, each parcel should be linked to identified gether as one "farm management unit," and identified by only one production" includes those or 4 digit category, e.g., code 8120, "Farms (predominant crops, cash that are being managed or grains)." "Industrial wood" or to obtain Using the "Farm use" categories in upp. 2 of this report, farm (i.e., "Industrial wood" includes the land (the farm use taking up the greatest percentage of "Porest reserves," i.e., areas farm area) excluding the areas used by farm residences and associated reces, are coded 921. buildings, nonresident farm buildings, areas in feed crops, and grazed along nonresident fare buildings, areas in feed crops, and grazed and nongrazed forested areas. Exceptions to this rule are: but because of their designation for	- The SIC codes are listed for purposes of reference. They are the	Code 821—"Agricultural processing"
sessivity indicated. (See ch. III, Se. A3, "The Use of Standard "Food and kindred products" Industrial Classification Nomenclature,") A dash indicates that there is no corresponding SIC code. "Food and kindred products" In categories "Code 81 "Agriculture," A parcel of land is considered to be in primary use of the land. It is agricultural use if 10 or more acres are under cultivation, in tree or recreation or the grazing of live. bush crops, or are used for ilvestock or poultry purposes. The 10 acres forested areas. However, may include the area of the residence, if there is one, and the immediate escendary in nature and not associated area surrounding the residence. permanent camping areas "A farm may consist of several ownership or rented parcels of land 2410), located within the that are noncontiguous. However, each parcel should be linked to identified. gether as one "farm management unit," and identified by only one production" includes those 3 or 4 digit eutgory, e.g., code 8120, "Farms (predominant crops, cash that are being managed or grains)" "industrial wood" or to obtain Using the "Farm use" categories in upp. 2 of this report, farm (i.e., "Industrial wood" or to obtain Using the "Farm use" categories in upp. 2 of this report, farm (i.e., "Industrial wood" includes the land (the farm use taking up the greatest percentage of "Forest reserves," i.e., areas farm area) excluding the areas used by farm residences and associated trees, are coded 221, "Parks," e.g., national or State parks, are also a type of forest areas. Exceptions to this rule are: but because of their designation for	includes only preliminary	
see activity indicated. (See ch. III, Se. A3, "The Use of Standard "Food and kindred products" in the corresponding SIC code. sorresponding SIC code. - "Code 81. "Agriculture." A parcel of land is considered to be in primary use of the land. It is agricultural use if 10 or more acres are under cultivation, in tree or recreation or the grazing of live bush crops, or are used for livestock or poultry purposes. The 10 acres forested areas. However, may include the area of the residence, if there is one, and the immediate secondary in nature and not associated area surrounding the residence. permanent camping areas - "A farm many consist of several ownership or rented parcels of land 2410), located within the that are noncontiguous. However, each parcel should be linked to identified. gether as one "farm management unit," and identified by only one production" includes those 3 or 4 digit category, e.g., code \$120, "Farms (predominant crops, eash that are being managed or grains)." "Industrial wood" or to obtain Using the "Farm use" categories in app. 2 of this report, farm (i.e., "Industrial wood" includes the farm management units) are to be classified by the most predominant saw logs and pulpwood, but see made of the land (the farm use taking up the greatest percentage of "Forest reserves," i.e., areas farm area) excluding the areas used by farm residences and associated trees, are coded 921. buildings, nonresident farm buildings, areas in feed crops, and grazed also a type of forest reserves. but because of their designation for	codes in the SIC system that most nearly correspond to the 4-digit land	processing of agricultural products. Any
"Food and kindred products— Industrial Classification Nomenclature.") A dash indicates that there is no corresponding SIC code. "Code 81." 'Agriculture." A parcel of land is considered to be in primary use of the land. It is agricultural use if 10 or more acres are under cultivation, in tree or recreation or the grazing of live bush crops, or are used for livestock or poultry purposes. The 10 acres forested areas. However, may include the area of the residence, if there is one, and the immediate secondary in nature and not associated area surrounding the residence. ———————————————————————————————————		
Industrial Classification Nomenclature.") A dash indicates that there is no corresponding SIC code. "Code 83 "Forestry activities and related services." The categories "Code 81 "Agriculture." A parcel of land is considered to be in primary use of the land. It is 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 forested areas. However, may include the area of the residence, if there is one, and the immediate secondary in nature and not associated area surrounding the residence. "A farm may consist of several ownership or rented parcels of land 2410), tocated within the that are noncontiguous. However, each parcel should be linked to identified. gether as one "farm management unit," and identified by only one production" includes those 3 or 4 digit category, e.g., code 8120, "Farms (predominant crops, eash that are being managed or grains)." "industrial wood" or to obtain Using the "Farm use" categories in app. 2 of this report, farm (i.e., "Industrial wood" includes the farm management units) are to be classified by the most predominant asw logs and pulpwood, but use made of the land (the farm use taking up the greatest percentage of "Forest reserves," i.e., areas arm area) excluding the areas used by farm residences and associated trees, are coded 921. buildings, nonresident farm buildings, areas in feed crops, and grazed also a type of forest reserve. but because of their designation for	use activity indicated. (See ch. III, Se. A3, "The Use of Standard	canning, or manufacturing is coded 21,
is no corresponding SIC code. sprvices;" The categories -**Code 81 "Forestry activities and related sprvices;" The categories -**Code 81 "Agriculture." A parcel of land is considered to be in primary use of the land. It is 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 forested areas. However, may include the area of the residence, if there is one, and the immediate secondary in nature and not associated area surrounding the residence. -**A farm may consist of several ownership or rented parcels of land (code 7491), and logging eamps (code 2410), located within the that are noncontiguous. However, each parcel should be linked to identified, gether as one "farm management unit," and identified by only one production," includes those - or 4 digit category, e.g., code 8120, "Farms (predominant crops, eash that are being managed or grains)." - industrial wood" or to obtain - Using the "Farm use" categories in app. 2 of this report, farm (i.e., "Industrial wood" includes the farm management units) are to be classified by the most predominant saw logs and pulpwood, but use made of the land (the farm use taking up the greatest percentage of "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 also a type of forest reserve. but because of their designation for		
services." The categories -\frac{2}{\text{Code 81}} \times_{\text{Agriculture."}}^{\text{Agriculture."}} \text{A parcel of land is considered to be in primary use of the land. It is agricultural use if 10 or more acres are under cultivation, in tree or 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 secondary in nature and not associated area surrounding the residence. -\frac{2}{\text{A farm may consist of several ownership or rented parcels of land}}{2410\text{, located within the}} (code 7491), and logging camps (code 2410), located within the that are noncontiguous. However, each parcel should be linked to identified. gether as one "farm management unit," and identified by only one production" includes those 3 or 4 digit category, e.g., code 8120, "Farms (predominant crops, cash that are being managed or grains)." "industrial wood" or to obtain Using the "Farm use" categories in app. 2 of this report, farm (i.e., "Industrial wood" includes the arm area) excluding the areas used by farm residences and associated tree products such as sap, bark, or seeds: "Industrial wood" includes the farm management units) are to be classified by the most predominant saw logs and pulpwood, but use made of the land (the farm use taking up the greatest percentage of "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, norresident farm buildings, areas in feed crops, and grazed also a type of forest reserve. and nongrazed forested areas. Exceptions to this rule are: but because of their designation for	Industrial Classification Nomenclature.") A dash indicates that there	manufacturing."
services." The categories -\frac{2}{\text{Code 81}} \times_{\text{Agriculture."}}^{\text{Agriculture."}} \text{A parcel of land is considered to be in primary use of the land. It is agricultural use if 10 or more acres are under cultivation, in tree or recreation or the grazing of live-bush crops, or are used for livestock or poultry purposes. The 10 acres forested areas. However, may include the area of the residence, if there is one, and the immediate secondary in nature and not associated area surrounding the residence. -\frac{2}{\text{A farm may consist of several ownership or rented parcels of land}}{\text{2410}}, located within the that are noncontiguous. However, each parcel should be linked to identified. gether as one "farm management unit," and identified by only one production" includes those 3 or 4 digit category, e.g., code 8120, "Farms (predominant crops, cash that are being managed or grains)." "industrial wood" or to obtain Using the "Farm use" eategories in app. 2 of this report, farm (i.e., "Industrial wood" includes the saw logs and pulpwood, but use made of the land (the farm use taking up the greatest percentage of "Forest reserves," i.e., areas farm area) excluding the areas used by farm residences and associated **Terest reserves," i.e., areas farm area, beckluding the areas used by farm residences and associated withdrawn from any commercial use of the trees, are coded 921. buildings, norresident farm buildings, areas in feed crops, and grazed also a type of forest reserve. but because of their designation for	is no corresponding SIC code.	Code 83"Forestry activities and related
primary use of the land. It is agricultural use if 10 or more acres are under cultivation, in tree or receasion or the grazing of live bush crops, or are used for livestock or poultry purposes. The 10 acres forested areas. However, may include the area of the residence, if there is one, and the immediate secondary in nature and not associated area surrounding the residence. — and a surrounding the residence. — permanent camping areas — 3. 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 identified. gether as one "farm management unit," and identified by only one production" includes those 3. or 4 digit category, e.g., code 8120, "Farms (predominant crops, cash that are being managed or grains)." "Industrial wood" or to obtain — Using the "Farm use" categories in app. 2 of this report, farm (i.e., "Industrial wood" includes the farm management unit) are to be classified by the most predominant saw logs and pulpwood, but use made of the land (the farm use taking up the greatest percentage of "Forest reserves," i.e., areas farm area) occluding the areas used by farm residences and associated area such of forest reserves, are coded 921. buildings, nonresident farm buildings, areas in feed crops, and grazed and nongrazed forested areas. Exceptions to this rule are: but because of their designation for		
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recreation or the grazing of live bush crops, or are used for livestock or poultry purposes. The 10 acres forested areas. However, may include the area of the residence, if there is one, and the immediate secondary in nature and not associated area surrounding the residence. ———————————————————————————————————	primary use of the land. It is	
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recreational activity, they should		but because of their designation for
	recreational activity, they should	

a. If 50 percent or more of the value Forested areas not on farms,	of the far	rm products sold in the	be ide	entified as "Parks" under code 76.		
previous year came from the sale of	Edairy pr	educts or the sale of come	ranch	es, or estates with no commercial use		
made of the trees are coded	dairy pro	saucts, of the saic of cows	rancii	es, or estates with no commercial use		
-and calves, the farm is identified as	"Form (n	wadominantly dairy	022 4	"nonreserve forests (undeveloped)."		
products)," code 8150.	r arm (p	redominantly dairy	922, Cod	le 841—"Fisheries and marine		
products" include those establish-			Cou	to 041 1 isheries and marme		
b. If 50 percent or more of the value	of the fo	rm products sold in	monte	s primarily engaged in commercial		
	or the ra	im products sold in	mente	s primarry engaged in commercial		
fishing, the catching or taking the previous year came from the sal	la of lives	tock wool or mobair	of che	allfish or the authoring of segment		
	ic of fives	tock, wool, of monan,	OI SIIC	ellfish, or the gathering of seaweed,		
sponges, turtles, frogs, etc.	1	(li	Th	4: - : : 4: : 1 4		
the farm is identified as "Farms and	i rancnes	(nvestock, other than	Hest	e activities may include some		
preliminary processing, e.g., salting.	l mamahaa	(livesteels other than	Home	avan any avtanciva mnaaccina		
the farm is identified as "Farms and	i rancnes	(HVestock, other than	Howe	ever, any extensive processing,		
packing, canning, or manufacturing			of the	ess musdousts should be seded under		
- dairy)," code 816.			or the	ese products should be coded under		
"Food and kindred products—	C 41 C	1. (11:		C		
e. If 50 percent or more of the value	of the fai	rm products sold in	- manu	facturing," code 21. These categories		
also include the docking		4 and a see 41 C	e	declared declared to the total		
the previous year came from the sal	e ot poul	try and eggs, the farm	tacılit	ties and their associated areas when		
these facilities are an integral						
is identified as "Farms (predominar	itly poulti	ry)," code 81"/0.	part o	of a single fishery operation. When		
docking facilities serve several						
d. If the percentage of dairy, livesto	ck, and po	oultry products,	separ	ate fishery establishments, they are		
coded 4414, "Marine terminals						
each came to less than 50 percent o				ominantly fishing vessels)."		
-sold in the previous years, and if the	e re are 3 (or more "Farm uses"	—´ Со	de 85—"Mining activities and related		
services" include those						
-(e.g., corn crop, cotton crop, etc.) w	'ithin a fa	rm, none of which takes	surfac	ce areas being used for mining or		
drilling purposes. the process						
- up 25 percent of the total farm area	(excludir	ng those areas referred	may t	oe tunnel excavation, strip mining,		
quarrying, or by drilling,						
- to above), the farm is identified as '	'Farms (g	eneralno predomi-	These	e categories also include those areas		
where preliminary processing						
nance)," code 8180.			of rav	v materials (e.g., washing, crushing,		
screening, etc.) are taking						
-4Code 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 p	urposes tl	hat are not a part of a				
	•	•				
					SIC	La
- Code Category	Code	Category	Code	Category	Reference [‡]	Cl
5 <i>y</i>		0 7		0 7	3	
91 Undeveloped and unused	910	Undeveloped and unused land	9100	Undeveloped and unused land area		
land area (excluding non		area (excluding noncommer-	7100	(excluding noncommercial forest	_	
- commercial forest devel-		cial forest development).		development).2		
opment).	<u>-</u>	ciai iorest de velopment).		de retopinent).±		
opinent).						
02 Namagar	021	Equat reconver	0211	Equat magaming (v.:111		
92 Noncommercial forest de-	921	Forest reserves.3		Forest reserves (wilderness areas).		
velopment.				Forest reserves (wildlife refuges).		
			9219	Other forest reserves, NEC.		
	0.2.2		0000			
	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.s		

	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.
94 Vacant floor area.	940	Vacant floor area.	9400	Vacant floor area.
95 Under construction.	951	Under construction (residential).	9510	Under construction (residential).6
(nonresidential).7-	952	Under construction (nonresidential).	9520	-Under construction
99 Other undeveloped land	990	Other undeveloped land and	9900	Other undeveloped land and water
and water areas, NEC. See footnotes on following page.	B-24	water areas, NEC.		areas, NEC.

$\begin{array}{ll} \textbf{B.} & \textbf{A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES--TWO-, THREE-, AND } \\ \textbf{FOUR-DIGIT} \end{array}$

FOOTNOTES	Code 9220—"Nonreserve forests
(undeveloped)" are major forested	
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	
codes 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	
- [±] 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.	5
appear to be undeveloped or if previously developed, are presently	Code 9320—"Lakes" include permanent lakes
(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.	6
been demolished. Vacant nonresidential buildings are coded 9400,	Code 9510—Residential facilities under
construction are considered	
"Vacant floor area."	to be completed when all exterior windows and
doors are installed and	
-3Code 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	⁺ 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.

35 IAC 901 Appendix B: Land-Based Classification Standards

Ll	BCS		
Main Category	Function Code	Description	35 IAC 901 Land Class
sı	1000	Residence or accommodation functions	A
Residence or accommodation functions	1100	Private household	
ипс	1200	Housing services for the elderly	1 1
n fu	1210	Retirement housing services	
utio	1220	Congregate living services	
poo	1230	Assisted-living services	
ши	1240	Life care or continuing care services	
100%	1250	Skilled-nursing services	
' ac	1300	Hotels, motels, or other accommodation services	
10 %	1310	Bed and breakfast inn	
ыс	1320	Rooming and boarding	↓
side	1330	Hotel, motel, or tourist court	
Res	1340	Casino hotel	A
	2000	General sales or services	
	2100	Retail sales or service	В
	2110	Automobile sales or service establishment	
	2111	Car dealer	1
	2112	Bus, truck, mobile homes, or large vehicles	
\ \sigma	2113	Bicycle, motorcycle, ATV, etc.	
ice,	2114	Boat or marine craft dealer	
or services	2115	Parts, accessories, or tires	
Jr S	2116	Gasoline service	
	2120	Heavy consumer goods sales or service	
sal	2121	Furniture or home furnishings	
ral.	2122	Hardware, home centers, etc.	
General sales	2123	Lawn and garden supplies	
\mathcal{C}_{e}	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 service	
2143	Tobacco or tobacconist establishment	
2144	Mail order or direct selling establishment	
2145	Antique shops, flea markets, etc.	
2150	Grocery, food, beverage, dairy, etc.	
2151	Grocery store, supermarket, or bakery	
2152	Convenience store	
2153	Specialty food store	
2154	Fruit and vegetable store	
2155	Beer, wine, and liquor store	
2160	Health and personal care	
2161	Pharmacy or drug store	
2162	Cosmetic and beauty supplies	
2163	Optical	
2200	Finance and Insurance	
2210	Bank, credit union, or savings institution	
2220	Credit and finance establishment	
2230	Investment banking, securities, and brokerages	
2240	Insurance-related establishment	
2250	Fund, trust, or other financial establishment]
2300	Real estate, and rental and leasing	
2310	Real estate services	
2320	Property management services	
2321	Commercial property-related	
2322	Rental housing-related	
2330	Rental and leasing	
2331	Cars	
2332	Leasing trucks, trailers, RVs, etc.	
2333	Recreational goods rental	
2334	Leasing commercial, industrial machinery, and equipment	↓
2335	Consumer goods rental	
2336	Intellectual property rental (video, music, software, etc.)	В
2400	Business, professional, scientific, and technical services	
2410	Professional services	A
2411	Legal services	
2412	Accounting, tax, bookkeeping, payroll services	
2413	Architectural, engineering, and related services	
2414	Graphic, industrial, interior design services	

2550 2560 2570 2580 2600 2700 2710 2720 3000 3110 3120	Mobile food services Caterer Food service contractor Vending machine operator Personal services Pet and animal sales or service (except veterinary) Pet or pet supply store Animal and pet services Manufacturing and wholesale trade Food, textiles, and related products Food and beverages Tobacco manufacturing establishment	B C
2560 2570 2580 2600 2700 2710 2720	Caterer Food service contractor Vending machine operator Personal services Pet and animal sales or service (except veterinary) Pet or pet supply store Animal and pet services Manufacturing and wholesale trade	
2560 2570 2580 2600 2700 2710 2720	Caterer Food service contractor Vending machine operator Personal services Pet and animal sales or service (except veterinary) Pet or pet supply store Animal and pet services	B
2560 2570 2580 2600 2700 2710	Caterer Food service contractor Vending machine operator Personal services Pet and animal sales or service (except veterinary) Pet or pet supply store	B
2560 2570 2580 2600 2700	Caterer Food service contractor Vending machine operator Personal services Pet and animal sales or service (except veterinary)	
2560 2570 2580 2600	Caterer Food service contractor Vending machine operator Personal services	
2560 2570 2580	Caterer Food service contractor Vending machine operator	
2560 2570	Caterer Food service contractor	
2560	Caterer	
	M - 1-11 - f 1	
	<u> </u>	
2500	Food services	В
2455	Packing, crating, and convention and trade show services	A
2454	Carpet and upholstery cleaning	
2453	Landscaping	
2452	Janitorial	
2451	Extermination and pest control	
2450	Services to buildings and dwellings	
2440	Investigation and security services	
2430	Travel arrangement and reservation services	
2425	Collection agency	
2424	Business support services	
2423	Employment agency	
2422	Facilities support services	
2421	Office and administrative services	
2420	Administrative services	
2418	Veterinary services	j
2417	• ' '	j
2416		l i
	2417 2418 2420 2421 2422 2423 2424 2425 2430 2440 2450 2451 2452 2453 2454 2455 2500 2510 2520 2530 2540	2416 Research and development services (scientific, etc.) 2417 Advertising, media, and photography services 2418 Veterinary services 2420 Administrative services 2421 Office and administrative services 2422 Facilities support services 2423 Employment agency 2424 Business support services 2425 Collection agency 2430 Travel arrangement and reservation services 2440 Investigation and security services 2450 Services to buildings and dwellings 2451 Extermination and pest control 2452 Janitorial 2453 Landscaping 2454 Carpet and upholstery cleaning 2455 Packing, crating, and convention and trade show services 2500 Food services 2510 Full-service restaurant 2520 Cafeteria or limited service restaurant 2530 Snack or nonalcoholic bar

_			
	3300	Chemicals, and metals, machinery, and electronics	
		manufacturing	
	3310	Petroleum and coal products	
	3320	Chemicals, plastics, and rubber products	
	3330	Nonmetallic mineral products	
	3340	Primary metal manufacturing	
	3350	Machinery manufacturing	
	3360	Electrical equipment, appliance, and components manufacturing	
	3370	Transportation equipment, automobiles, etc.	İ
	3400	Miscellaneous manufacturing	1 i l
	3410	Jewelry and silverware	l i
	3420	Dolls, toys, games, and musical instruments	\downarrow
	3430	Office supplies, inks, etc.	·
	3440	Signs	C
	3500	Wholesale trade establishment	В
	3510	Durable goods	↑
	3520	Nondurable goods	↓
	3600	Warehouse and storage services	В
	4000	Transportation, communication, information, and utilities	_
	4100	Transportation services	
es	4110	Air transportation	U
liti	4111	Air passenger transportation	
uti	4112	Air freight transportation	1
nd	4113	Airport and support establishment	\
1, 0	4114	Aircraft and accessories	
tio	4115	Other air transportation (including scenic, balloon, etc.)	U
ma	4120	Rail transportation	C
information, and utilities	4121	Rail passenger transportation	
, iņ	4122	Rail freight transportation	
ion	4123	Rail transportation support establishment	
cat	4130	Road, ground passenger, and transit transportation	
uni	4131	Local transit systemsmixed mode	
ımı	4132	Local transit systemscommuter rail	
п, соп	4133	Local transit systemsbus, special needs, and other motor vehicles	
tio	4134	Interurban, charter bus, and other similar establishments	
rta	4135	School and employee bus transportation	
Transportation, communication,	4136	Special purpose transit transportation (including scenic, sightseeing, etc.)	
Tr	4137	Taxi and limousine service	
	4138	Towing and other road and ground services	
	4140	Truck and freight transportation services	
1			1 1

4141	General freight trucking, local	
4142	General freight trucking, long-distance	
4143	Freight trucking, specialized (used household and office	
	goods)	
4144	Freight trucking, specialized (except used goods)	
4150	Marine and water transportation	
4151	Marine passenger transportation	j
4152	Marine freight transportation	j
4153	Marine port and harbor operations	j
4154	Marine cargo handling and dry dock services	j
4155	Marine navigational and other services	İ
4160	Courier and messenger services	1
4170	Postal services	
4180	Pipeline transportation	C
4200	Communications and information	
4210	Publishing	C
4211	Newspapers, books, periodicals, etc.	\$
4212	Software publisher	C
4220	Motion pictures and sound recording	В
4221	Motion Picture and video production, publishing, and	
	distribution	1
4222	Motion picture viewing and exhibition services	
4223	Sound recording, production, publishing, and distribution	
4230	Telecommunications and broadcasting	
4231	Radio and television broadcasting	
4232	Cable networks and distribution	
4233	Wireless telecommunications	
4234	Telephone and other wired telecommunications	
4240	Information services and data processing industries	
4241	Online information services	\
4242	Libraries and archives	_
4243	News syndicate	В
4300	Utilities and utility services	C
4310	Electric power Hydroelectric	^
4311 4312	Fossil	
4312	Nuclear	
4313		
4314	Alternative energy sources Natural gas, petroleum, fuels, etc.	
4320	Water, steam, air conditioning supply	
4331	Drinking water	
4331	Irrigation and industrial water supply	
4333	Air conditioning and steam supply	
4333	An conditioning and steam suppry	1 1 1

1	4340	Sewer, solid waste, and related services	1
	4341	Hazardous waste collection	
	4342	Hazardous waste treatment and disposal	
	4343	Solid waste collection	
	4344	Solid waste combustor or incinerator	
	4345	Solid waste landfill	l I
	4343		
		Waste treatment and disposal	\
	4347	Septic tank and related services	C
	5000	Arts, entertainment, and recreation	<u> </u>
	5100	Performing arts or supporting establishment	В
	5110	Theater, dance, or music establishment	В
	5120	Sports team or club	↑
	5130	Racetrack establishment	į
	5140	Promoter of performing arts, sports, and similar events	
	5150	Agent for management services	*
ion	5160	Independent artist, writer, or performer	В
eat	5200	Museums and other special purpose recreational institutions	<u>B</u>
3CL	5210	Museum Museum	↑
d re	5220	Historical or archeological institution	Ĺ
ana	5230	Zoos, botanical gardens, arboreta, etc.	Å
Arts, entertainment, and recreation	5300	Amusement, sports, or recreation establishment	B
me	5310	Amusement or theme park establishment	ь
ain	5320	Games arcade establishment	↑
ert	5330	Casino or gambling establishment	į
ent	5340	Miniature golf establishment	
ts,	5350	Skiing	
Ar	5360	Marina or yachting club facility operators	
	5370	Fitness, recreational sports, gym, or athletic club,	
	5380	Bowling, billiards, pool, etc.	l I
	5390	Skating rinks, roller skates, etc.	V
	5400	Camps, camping, and related establishments	В
	5500	Natural and other recreational parks	A
	3300	ivaturar and other recreational parks	A
	6000	Education, public admin., health care, and other inst.	
Education, public admin., health care, and other inst	6100	Educational services	A
dm er 1	6110	Nursery and preschool	
c a	6120	Grade schools	\uparrow
ıbli ıd e	6121	Elementary	j
pu , ar	6122	Middle	
on, are	6123	Senior	
rati 1 ca	6124	Continuance	
duc alti	6125	Alternate education services	
Ει	6126	Adult education services	
1	0120	1 Iddit Oddoddon bol (100b	I

6130	Colleges and Universities	1 1
	Colleges and Universities	
6140	Technical, trade, and other specialty schools	
6141	Beauty schools	
6142	Business management	
6143	Computer training	\
6144	Driving education	
6145	Fine and performing arts education	<u>A</u>
6146	Flight training	U
6147	Sports and recreation education	В
6200	Public administration	B
6210	Legislative and executive functions	<u> </u>
6220	Judicial functions	↓ ↓
6221	Courts	В
6222	Correctional institutions	A
6300	Other government functions	В
6310	Military and national security	
6320	Space research and technology	
6400	Public Safety	
6410	Fire and rescue	\downarrow
6420	Police	
6430	Emergency response	В
6500	Health and human services	A
6510	Ambulatory or outpatient care services	
6511	Clinics	↑
6512	Family planning and outpatient care centers	
6513	Medical and diagnostic laboratories	
6514	Blood and organ banks	\
6520	Nursing, supervision, and other rehabilitative services	
6530	Hospital	A
6560	Social assistance, welfare, and charitable services	В
6561	Child and youth services	
6562	Child day care	↑
6563	Community food services	
6564	Emergency and relief services	
6565	Other family services	
6566	Services for elderly and disabled	
6567	Veterans affairs	В
6568	Vocational rehabilitation	A
6600	Religious institutions	A
6700	Death care services	В
6710	Funeral homes and services	
6720	Cremation services and cemeteries	1
6800	Associations, nonprofit organizations, etc.	\exists
6810	Labor and political organizations	
0010	Euror una portueur organizations	

6820	Business associations and professional membership	↓
6830	organizations Civic, social, and fraternal organizations	В
7000	Construction-related businesses	
7100	Building, developing, and general contracting	В
7110	Residential construction	
7120	Land development and subdivision	\uparrow
7130	Industrial, commercial and institutional building construction	
7200	Machinery related	
7310	Building equipment and machinery installation contractors	
7320	Excavation contractor	
§ 7330	Water well drilling contractor	
$\left \begin{array}{cc} \widetilde{s} & 7340 \end{array} \right $	Wrecking and demolition establishment	
$\frac{1}{2}$ 7350	Structural steel erection contractor	
$ \vec{a} $ 7360	Special trade contractor	
7370	Carpentry, floor, and tile contractor	
$ \dot{g} $ 7380	Concrete contractor	
$\frac{1}{8}$ 7310	Electrical contractor	
7330 7340 7350 7360 7370 7380 7310 7320 7330 7340 7350	Glass and glazing contractor	
7330	Masonry and drywall contractors	İ
7340	Painting and wall covering	\downarrow
7350	Plumbing, heating, and air-conditioning	
7360	Roofing, siding, and sheet metal contractors	В
7400	Heavy construction	C
7410	Highway and street construction;	
7420	Bridge and tunnel construction	\uparrow
7430	Water, sewer, and pipeline construction	\downarrow
7440	Power lines, communication and transmission lines	
7450	Industrial and other nonbuilding construction	C
8000	Mining and extraction establishments	C
	Oil and natural gas	
Mining and extraction establishments 800 8400 8500	Metals (iron, copper, etc.)	\uparrow
8300 si shi	Coal	\downarrow
14 Ain 14	Nonmetallic mining	
* * * * 8500	Quarrying and stone cutting establishment	C
9000	Agriculture, forestry, fishing and hunting	С
ê , b 9100	Crop production	
<i>Agriculture, forestry, forestry, fishing and</i> 0116 0106	Grain and oilseed	\uparrow
1116 hing 2 ric.	Wheat	
$ \frac{A}{g}\frac{A}{g}$ 9115	Corn	
9113	Rice	

1		
9114	Soybean and oilseed	
9115	Dry pea and bean	
9120	Vegetable farming or growing services	
9130	Fruits and trees	
9140	Greenhouse, nursery, and floriculture	
9141	Food crops grown under cover	
9142	Nursery and tree production	
9143	Floriculture production	
9150	All other crops	
9151	Tobacco crop	
9152	Cotton crop	
9153	Sugarcane crop	
9154	Hay	
9155	Peanut crop	<u> </u>
9200	Support functions for agriculture	
9210	Farm and farm labor management services	
9220	Spraying, dusting, and other related services	
9230	Crop harvesting and post harvest crop activities (including	
	drying, siloing, etc.)	
9240	Cotton ginning, grist milling, etc.	<u> </u>
9300	Animal production including slaughter	
9310	Cattle ranch and crops	
9311	Beef cattle ranch establishments	
9312	Cattle feedlot establishment	
9320	Dairy cattle and milk production	
9330	Hog and pig farm	
9340	Poultry and egg production and hatcheries	
9350	Sheep and goat farming establishments	
9360	Fish hatcheries, fisheries, and aquaculture	
9370	All other animal production	
9371	Apiculture (bees, wax, and related operations)	
9372	Horse and equine production	
9373	Fur-bearing animal production	
9380	Support functions for animal production	<u> </u>
9400	Forestry and Logging	
9410	Logging	
9420	Forest nurseries	
9430	Support functions for forestry	<u> </u>
9500	Fishing, hunting and trapping, game preserves	ļ
9510	Fishing	↓
9520	Hunting and trapping, game retreats, game and fishing	
	preserves	C
9900	Unclassifiable function	U

9910	Not applicable to this dimension	↑
9990	To be determined	\downarrow
9999	To be determined	U

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE H: NOISE CHAPTER II: ENVIRONMENTAL PROTECTION AGENCY

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

Section	
910.100	General
910.101	Personnel Qualifications Repeal
910.102	Instrumentation
910.103	Definitions
910.104	Measurement Techniques for 35 Ill. Adm. Code 900
910.105	Measurement Techniques for 35 Ill. Adm. Code 901
910.106	Protocols for Determination of Sound Levels
910.107	Measurement Techniques for Highly-Impulsive Sound

AUTHORITY: Implementing and authorized by Sections 25 and 27 of the Environmental Protection Act (III. Rev. Stat., 1981, ch. 111 1/2, pars. 1025 and 1027 415 ILCS 5/25 and 27) and 35 III. Adm. Code 900.103.

SOURCE: Adopted at	8 III Reg Effective
OCONCE. AUDDIEU AL	O III. NES. L'HIECHVE

Section 910.100 General

This report, part pursuant to 35 III. Adm. Code 900.103(a) and (b), (old Rules 103(a) and 103(b), Chapter 8, of the Noise Pollution Control Regulations) establishes: the qualifications necessary for the Illinois Environmental Protection Agency (Agency) personnel to conduct sound pressure level measurements, the definitions necessary to supplement this report, specifies the instrumentation to be used by Agency personnel when conducting sound pressure level measurements and the specific sound pressure level measurement techniques to be employed by Agency personnel conducting sound pressure level acoustical noise-measurements and sets forth the specific acoustical measurement techniques to be employed by personnel when conducting time- averaged sound level ($L_{\rm eq}$) measurements. The personnel qualifications, instrumentation requirements and measurement techniques as more specifically set forth in this Part , shall must

apply to Agency personnel in determining whether a noise source is in compliance with 35 Ill. Adm. Code 900 and 901, but do not establish limits on sound.

Section 951.101 Personnel Qualifications

Agency personnel conducting sound measurements shall have been trained and experienced in the current techniques and principles of sound measurement and in the selection and operation of sound measuring instrumentation.

Section 910.102 Instrumentation

- a) <u>Sound Measuring Equipment</u>
 - A <u>An integrating</u> sound level meter used alone or used in conjunction with an octave band or one-third octave band filter set <u>or a real time sound</u> analyze (octave band or one-third octave band) shall <u>must</u> conform with the following standards <u>incorporated</u> by reference at 35 Ill.Adm. Code 900.106 or subsequent revisions:
 - A) American National Standards Institute ANSI §1.4 197183 (R2001) "American National Standard Specification for Sound Level Meters, Type 1 Precision Sound Level Meter.
 - B) American National Standards Institute ANSI §S1.11 19686 (R 1998) "American National Standard Specifications for Octave Band Filter Sets, Class II; One-Half Octave Band Filter Sets, Class III; and Fractional-Octave-Band Analog and Digital filters."
 - C) American National Standards Institute ANSI §S 1.6 196784
 (R2001) "American National Standard Preferred Frequencies,
 Frequency Levels, and Band Numbers for Acoustical
 Measurements."
 - D) American National Standards Institute ANSI §S1.8 19689
 "American National Standard Reference Quantities for Acoustical Levels."
 - E) <u>International Electrotechnical Commission, IEC 804-2000 1985</u> <u>Integrating/averaging Sound level meters.</u>
 - A magnetic tape recorder, graphic level recorder or other indicating device is used, shall 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 Section 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 than once every 12 months.
- 4) For outdoor measurement a windscreen shall <u>must</u> be attached to the microphone

b) Weather Measuring Equipment

- 1) An anemometer and compass or other devices <u>must</u> be used to measure wind speed and direction in accordance with the manufacturer's recommended procedures.
- 2) A thermometer, <u>designed to</u> measure ambient temperature, <u>must</u> be used in accordance with the manufacturer's recommended procedures.
- 3) A hygrometer, <u>must</u> be used in accordance with the manufacturer's recommended procedures to measure the relative humidity.
- 4) A barometer, <u>must</u> be used in accordance with the manufacturer's recommended procedures <u>to measure the barometric pressure</u>.
- h) For outdoor measurements a suitable windscreen shall be attached to the microphone.

Section 910.103 Definitions

The definitions contained in 35 Ill. And. Code 900.101 shallwill apply to this part

"Angle of incidence": the orientation of the microphone relative to the sound source. See Appendix A.

"Ambient": the all-encompassing sound associated with a given environment without the noise source of interest.

"Discrete tone": a sound wave whose instantaneous sound pressure varies essentially as a simple sinusoidal function of time.

(Agency Note: A discrete tone differs by definition from a prominent discrete tone.)

"Fluctuating sound": a class of nonsteady sound whose sound pressure level varies over a range greater than 6 decibels (dB) with the "slow" meter characteristic, and where the meter indication does not equal the ambient level more than once during the period of observation.

"Impulsive sound": sound characterized by brief excursions of sound pressure (acoustical impulses) above the ambient whose duration is less than one second.

(Agency Note: Examples of impulsive sound sources are a drop forge hammer and explosive blasting.)

"Intermittent sound": a class of nonsteady sound where the meter indicates a sound pressure level equal to the ambient level two or more times during the period of observation. The period of time during which the level of the sound remains at a value different from that of the ambient is of the order of one second or more.

"Noise floor": the electrical noise (in decibels) of the sound measurement system. When the noise floor is determined by placing a calibrator over the microphone of the sound measurement system, the noise floor may include acoustic noise due to leakage around the calibrator.

"Nonsteady sound": a sound whose sound pressure level shifts significantly during the period of observation. Meter variations are greater than <u>1</u> 3 dB using the "slow" meter characteristic.

"Period of observation": the time interval during which acoustical data are obtained. The period of observation is determined by the characteristics of the noise being measured and should be at least ten times as long as the response time of the instrumentation. The greater the variation in indicated sound level, the longer must be the observation time for a given expected precision of the measurement.

"Prominent discrete tone": sound, having a one-third octave band sound pressure level which, when measured in a one third octave band at the preferred frequencies, exceeds the arithmetic average of the sound pressure levels of the two adjacent one third octave bands on either side of such one third octave band by:

5 dB for such one third octave band with a center frequency from 500 Hertz to 10,000 Hertz, inclusive. Provided: such one third octave band sound pressure level exceeds the sound pressure level of each adjacent one-third octave band, or;

8 dB for such one third octave band with a center frequency from 160 Hertz to 400 Hertz, inclusive. Provided: such one third octave band sound pressure level exceeds the sound pressure level of each adjacent one third octave band, or;

15 dB for such one-third octave band with a center frequency from 25 Hertz to 125 Hertz, inclusive. Provided: such one-third octave band sound pressure level exceeds the sound pressure level of each adjacent one-third octave band.

"Property-line-noise-source": any equipment or facility, or combination thereof, which operates within any land used as specified by 35 Ill. Adm. Code 901.101 of the Noise Regulations. Such equipment or facility, or combination thereof, must be capable of emitting sound beyond the property line of the land on which operated.

(Agency Note: The property-line noise source is the equipment or facility or combination thereof that is emitting the sound to be measured. The surface of the property-line noise source is not necessarily on the property-line unless they are contiguous.)

"Quasi-steady sound": a train of two or more acoustical impulses.

(Agency Note: Examples of quasi-steady sound are riveting and a pneumatic hammer.)

"Reflective surface": any building, hillside, or similar object (other than the flat ground surface) that reflects sufficient sound to affect the sound pressure level readings obtained from a noise source. Not included as reflective surfaces are small objects such as trees, posts, chain-link fences, fire hydrants, vegetation such as bushes and shrubs, or any similar object.

"Sound level": in decibels, a weighted sound pressure level determined by the use of metering characteristics and frequency weightings specified in ANSI, §1.4-1971 "Specification for Sound Level Meters."

(Agency Note: The sound level may be obtained by the use of a metering characteristic and the weightings A, B, C (or other).)

"Sound pressure level": in decibels, 20 times the logarithm to the base 10 of the ratio of the magnitude of a particular sound pressure to the standard reference pressure. The standard reference pressure is 20 micronewtons per square meter.

"Steady sound": a sound whose sound pressure level remains essentially constant (that is, meter fluctuations are negligibly small) during the period of observation. Meter variations are less than or equal to ± 3 dB using the "slow" meter characteristic.

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. And. 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 of the Noise Regulations:

- a) Site Selection
 - 1) Measurements may be taken at one or more microphone positions within the appropriate receiving land. Measurement instruments shall 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 Part 901.
 - 2) Measurement instruments shall 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) set back 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 which 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 should not be set up less than 50 feet (15.2 m) from any reflective surface which 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.) should 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 shall <u>must</u>-be set <u>over at</u> the <u>chosen</u> site. The tripod shall be extended to a height between 3 feet 8 inches (1.12 m) and 4 feet 10 inches (1.47 m) above ground.
 - A microphone shall <u>must</u> be attached to the appropriate end of a 5-foot (1.5 m) or longer cable and shall <u>must</u> be affixed to the top of the tripod. The other end of the cable shall be connected to the measuring instrument
 - 3) The angle of incidence of the microphone shall must be adjusted to that which will yield the flattest frequency response in accordance with the manufactures specifications.
 - 4) The measuring instrument should 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) Data Acquisition and 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 suitable windscreen to the microphone.
- 4) Adjust the microphone to the angle of incidence that will yield the flattest frequency response in accordance with the manufacturer's specifications.
- 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.
- While measurements are being taken, visual and aural surveillance of extraneous sound sources and varying wind conditions should 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 each bad or corrupted affected data block shall must be recorded. When using a tape recorder, voice commentary concerning conditions shall will be recorded on the cue track.
- 8) To minimize wind effects on the microphone, sound measurements shall 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.
- 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 shall not be used for enforcement purposes.

- 11) Before removing the calibrator from the microphone, turn the calibrator off. If the ambient 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 shall 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.
- 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) Use of A magnetic tape recorder is used to preserve the raw data is encouraged. Calibration signals shall 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 occurs. Voice commentary concerning local conditions and bad or corrupted affected data blocks shall must be recorded on the cue track. The original tape recording shall 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 shall must be recorded. Analyses used in the laboratory shall 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, one-third octave band sound pressure levels shall must be obtained in determining whether a noise source is in compliance with 35 Ill. Adm. Code 901.106 of the Noise Regulations.
 - 2) For measurements of non-impulsive sound with no audible discrete tones, octave band sound pressure levels shall-must be obtained in determining

whether a noise source is in compliance with 35 Ill. Adm. Code 901.102 and 901.103 of the Noise Regulations.

3) Steady sound:

- A) For measurements of steady sound at one or more octave or one third octave bands, sound pressure level measurements shall be obtained for such octave or one third octave bands. The average of the maximum and minimum sound pressure levels shall be obtained for each octave or one third octave band center frequency during the period of observation (See Appendix C, Figure 1).
- B) For measurements of steady sound that varies between two or more levels when observed using the "fast" or "slow" meter characteristic, the average sound pressure level for the steady level of interest shall be obtained (See Appendix C, Figure 2).
- C) For steady sound whose duration is five seconds or more the "fast" or "slow" meter characteristic shall be used. For levels that are steady for one to five seconds the "fast" meter characteristic shall be used.

4) Fluctuating Sound:

- A) For measurements of fluctuating sound at one or more octave or one third octave bands where the fluctuations on the indicating meter are between ± 3 dB and ± 5 dB ("slow" meter characteristic), obtain the sound pressure level 3 dB below the maximum level. This corresponds to the root mean square (rms) sound pressure level and shall be obtained for such octave or one third octave bands (See Appendix C, Figure 3). When successive fluctuations are observed to have different maximum levels, obtain the sound pressure level 3 dB below the mean of the maximum levels for several excursions.
- B) For measurements of fluctuating sound at one or more octave or one third octave bands where the fluctuations on the indicating meter are greater than ± 5 dB, the sound pressure level may deviate from the true rms value by several decibels (See Appendix D, Figure 1). The recorded level shall be obtained by reading the maximum level of the sound level meter 10 or more times during the period of observation. The recorded level shall be obtained from the following equation:

where

N = the total number of observations

L_i = the maximum level at each observation

- C) For measurements of fluctuating sound that varies between two or more levels when observed using the "slow" meter characteristic, the measurement methods specified in subsection (d)(4)(A) or (D)(4)(B), may be used to obtain sound pressure levels for the fluctuating level of interest (See Appendix D, Figure 2).
- 5) Intermittent Sound: For measurements of intermittent sound the methods specified in subsections (d)(1), (d)(2), (d)(3) or (d)(4) shall be used during the time the sound exceeds the ambient level (See Appendix D, Figure 3).
- 6) Impulsive Sound: For measurements of impulsive sound, A weighting and the "fast" meter characteristic shall be used. The maximum excursion of the indicating meter shall be obtained. Measurements may also be taken using other weightings and meter characteristics for informational purposes (See Appendix E, Figure 1).
- 7) Quasi-Steady Sound: For measurement of quasi-steady sound,
 A-weighting and the "fast" meter characteristic shall be used. The
 maximum excursion of the indicating meter shall be obtained.
 Measurements may also be taken using other weightings and meter
 characteristics for informational purposes (See Appendix E, Figure 2).

e) Correction Factors

If necessary, correction factors rounded to the nearest 1/2 decibel shall 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 shall must only be used to make negative corrections (subtraction from the field data). In no case shall 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.

a) The raw data collection procedures for the determination of equivalent sound level (L_{eq}) are described in this section using as an example the determination of a 1-hour equivalent sound level (L_{eq}) corrected for background ambient. The following procedures shall must be used:

1) Using small blocks:

- A) The 1-hour interval is divided into many small blocks of time such 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, shall must remain fixed for any measurement hour. The duration shall 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 shall must be the 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) <u>Data for any block corrupted by one or more short-term</u> background transient sounds shall 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_{PLNS}, where PLNS stands for Property-Line-Noise-Source. These remaining "good" blocks shall 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_{PLNS} remaining blocks are 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}. The raw, 1-hour L_{eq} in the jth frequency band is give by:

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

where L_{equij} is the L_{eq} in the *j*th frequency band for the *i*th non-deleted data block.

F) <u>In terms of SEL, the raw SEL in the *j*th frequency band is given by:</u>

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

where SEL_{ij} is the SEL in the *j*th frequency band for the *i*th non-deleted data block.

G) The raw, 1-hour L_{eq} in the *j*th frequency band is given in terms of the corresponding SEL_j 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 shall must be adjusted to continuously measure 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 shall 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) <u>Data collection shall must proceed for one hour. The energy</u>
 <u>average of the several measured L_{eqij} each weighted by the number</u>
 <u>of seconds actually accumulated during the *i*th block results in the
 raw, 1-hour L_{eq} in each frequency band given by:</u>

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

Where L_{eqij} is the L_{eq} in the jth frequency band for the *i*th large block. T_i is the actual number of seconds of "good"data accumulated in the *i*th blockof 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) <u>Initial Measurement Duration. The property-line-noise-source</u> measurements shall 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 (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} shall 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 shall be appropriately modified and new measurements shall 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 shall 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} shall must be corrected for long-term background ambient sound. Subsection (a) (4) (5) below 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-noise-source 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 raw1-hour L_{eq} and the long-term background ambient sound is larger than 10 decibels, then the correction shall 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_{eqi}, shall 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 shall be subtracted from the raw, 1-hour property-line-noise-source L_{eqi}

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

<u>Difference</u>	<u>Correction</u>
<u>(dB)</u>	<u>(dB)</u>
<u>3</u>	<u>3</u>
<u>4</u>	<u>2.3</u>
4 <u>5</u> <u>6</u>	<u>1.7</u>
	<u>1.3</u>
<u>7</u>	<u>1.0</u>
<u>8</u> <u>9</u>	<u>0.7</u>
<u>9</u>	<u>0.6</u>
<u>10</u>	<u>0.5</u>

- B) The long-term background ambient corrected level shall must be the property-line-noise-source $L_{\rm eqj}$ reported for the jth frequency band.
- b) Obtaining the background ambient sound level:
 - 1) The background ambient shall must be measured for the purposes of this section during a 10-minute interval.

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: (1) to divide the 10-minute measurement into short blocks of data, or (2) inhibit data collection when short-term background transient sounds occur. The same method shall must be used for gathering both the long-term background ambient data. The measurement procedures for each method are given in subsections (b) (3), (b) (4) and (b) (5) below:

3) Using small blocks of data

- A) The 10-minute measurement of long-term background ambient shall must be divided into short measurement blocks. The duration of these blocks shall remain constant during the entire measurement, both when measuring the long-term background ambeint and when measuring the property-line-noise-source. The duration of this measurement block in seconds, T, shall must divide exactly (without remainder) into 600 and shall must be higher 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 shall must be discarded. The number of remaining, non-discarded measurement blocks is designated N_{BA}, where *BA* stands for background ambient.
- C) The L_{eq} for each octave (or 1/3 octave) band are (energy) averaged over the N_{BA} remaining measurement blocks to obtain average long-term background ambient L_{eq} per band. Equation 1 (see subsection (a) (1) (E) above) is used for this calculation with N_{BA} replacing N_{PLNS} as the number of elemental blocks to be summed. The total duration of the measurement in seconds, T_{BA} , is given by N_{BA} multiplied by T.

4) Continuous Data Collection.

A) The measuring instrument shall must be adjusted according to manufacturer's instructions to continuously measure and accumulate (i.e record) Leq. A switch shall 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 shall must be used to prevent short-term background ambient sounds from corrupting the data.
- C) <u>Data collection shall must proceed for 10 minutes. The result is the 10-minute, long-term background ambient Leq in each band.</u>
- D) <u>T_{BA} is the number of non-inhibited measurement seconds during the 10-minute measurement period.</u>
- 5) The minimum duration, for either method, T_{BA} shall must be no less than 150 seconds. If T_{BA} is less than 150 seconds, then the measurement of the long-term background ambient shall 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.
- 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 long-term background ambient noise. The first four procedures involves 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 shall be is -considered to be the most accurate to what shall is considered to be the least accurate procedure.
 - A) <u>Direct Measurement Procedure -1: With the property-line-noise-source (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.</u>
 - B) <u>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 (1) to twenty-four (24) hours before, or within one (1) to twenty four (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.</u>
 - C) <u>Direct Measurement Procedure- 3: With the PLNS turned off,</u>
 measure the long-term background ambient during some other
 acoustically similar period within one (1) to thirty (30) days
 before, or within one (1) to thirty (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.
- Direct Measurement Procedure-4: With the PLNS turned off, measure the long-term background ambient noise during some other acoustically similar period within thirty (30) to ninety (90) days before, or within thirty (30) to ninety (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-noise-source measurements.
- Tables of long-term background Ambient Noise. Where none of E) the alternatives can be used, use the applicable long-term background ambient data taken from Tables 2 through 5. 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 Bonvallet, G.L., "Levels and Spectra of Traffic of Traffic, Industrial, and Residential Area Noise," Jornal 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 (a) in busy downtown commercial areas, (b) at intersections of mass transportation and other vehicles including L trains, heavy motor trucks and other heavy traffic, and (c) street corners where many motor vehicles, buses and heavy trucks accelerate.
 - ii) Category 2: Moderate Commercial and Industrial Areas, and Noisy Residential Areas. Heavy traffic areas with (a) conditions similar to (1) above but with somewhat less traffic, (b) routes of relatively heavy or fast automobile traffic but where heavy truck traffic is not extremely dense, and (c) 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 are 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 above but for this group the background is either is distant traffic or is unidentifiable.
- v) Category 5: Very Quiet, Sparse Suburban or Rural Areas.
 These areas are similar to Category 4 above but are usually in unincorporated areas and for this group there are few if any near neighbors.

<u>Table 2. Daytime long-term background ambient L_{eq} levels by land use categories and 1/3 octave-band level.</u>

	Background Category				
Band Center H%	<u>1</u>	<u>Backgro</u>	ound Catego <u>3</u>	<u>ry</u> <u>4</u>	<u>5</u>
20	63	<u>56</u>	48	42	36
25	64	<u>57</u>	49	43	37
31	65	<u>58</u>	50	44	38
<u>40</u>	65	<u>58</u>	51	44	38
<u>50</u>	66	<u>59</u>	51	45	39
<u>63</u>	66	<u>59</u>	52	46	40
80	67	60	52	46	$\frac{40}{41}$ $\frac{40}{40}$
100	68	60	53	47	
125	67	59	52	46	
160	66	<u>59</u>	<u>52</u>	46	40
200	66	<u>58</u>	<u>51</u>	45	39
250	65	<u>58</u>	<u>50</u>	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
<u>1250</u>	<u>56</u>	<u>47</u>	<u>38</u>	<u>32</u>	<u>26</u>

1600	<u>54</u>	45	36	$\frac{30}{28}$	<u>24</u>
2000	<u>52</u>	43	33		<u>21</u>
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 12,500	$\frac{41}{39}$	<u>29</u> 27	17 15	$\frac{12}{10}$	<u>6</u> 4

Table 3. Nighttime long-term background ambient L_{eq} levels by land use categories and 1/3-octave band level.

Pand Contar HOV	1		ound Catego	-	5
Band Center H%	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
20	53	48	43	37	31
25	54	49	44	38	32
31	55	50	45	39	33
<u>40</u>	55	50	$\frac{46}{46}$	39	33
<u>50</u>	56	51		40	34
<u>63</u>	56	51		41	35
80	57	<u>52</u>	47	41	35
100	58	<u>52</u>	48	42	36
125	57	<u>51</u>	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
630 800 1000	$\frac{51}{50}$ $\frac{48}{48}$	$\frac{45}{43}$ $\underline{41}$	39 37 35	33 31 29	27 25 23
1250	<u>46</u>	39	33	27	<u>21</u>
1600	<u>44</u>	37	31	25	<u>19</u>

<u>2000</u>	<u>42</u>	<u>35</u>	<u>28</u>	<u>23</u>	<u>16</u>
2500	40	33	25	20	14
3150	39	31	23	18	12
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	<u>21</u>	12	<u>7</u>	_1
12,500	29	<u>19</u>	10	<u>2</u>	

<u>Table 4. Daytime long-term background ambient L_{eq} levels by land use categories and octave band level.</u>

		Backgro	ound Catego	<u>ry</u>	
Band Center H%	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
<u>31</u>	70	<u>63</u>	<u>55</u>	49	43
<u>63</u>	<u>70</u> 71	<u>64</u>	<u>57</u>	<u>51</u>	<u>45</u>
<u>125</u>	<u>72</u>	<u>64</u>	<u>57</u>	<u>51</u>	<u>45</u>
<u>250</u>	<u>70</u>	<u>63</u>	<u>55</u>	<u>49</u>	<u>43</u>
<u>500</u>	<u>67</u>	<u>59</u>	<u>51</u>	<u>45</u>	<u>39</u>
<u>1000</u>	<u>63</u>	<u>54</u>	<u>45</u>	<u>39</u>	<u>33</u>
<u>2000</u>	<u>57</u>	<u>48</u>	<u>38</u>	<u>33</u>	<u>26</u>
<u>4000</u>	<u>53</u>	<u>42</u>	<u>30</u>	<u>25</u>	<u>20</u>
<u>8000</u>	<u>48</u>	<u>36</u>	<u>24</u>	<u>19</u>	<u>13</u>

 $\underline{\text{Table 5. Nighttime long-term background ambient L_{eq} levels by land use categories and octave band level.}}$

		Backgro	ound Catego	<u>ry</u>	
Band Center H%	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
31	<u>60</u>	<u>55</u>	<u>50</u>	<u>44</u>	38
63	61	<u>56</u>	<u>52</u>	<u>46</u>	40
125	62	<u>56</u>	<u>52</u>	46	$\frac{40}{38}$
250	60	<u>55</u>	50	44	
<u>500</u>	<u>57</u>	<u>51</u>	46	<u>40</u>	<u>34</u>
1000	<u>53</u>	46	<u>40</u>	34	28
2000	<u>47</u>	40	<u>33</u>	28	21
4000	43	34	<u>25</u>	<u>20</u>	15
8000	38	28	<u>19</u>	<u>14</u>	8

APPENDIX F OLD RULE NUMBERS REFERENCED

The following table is provided to aid in referencing old Agency rule numbers to section numbers pursuant to codification.

<u>Old</u>	Ill. Adm. Code Part 910
<u>Part 1.0</u>	Section 910.100
<u>Part 2.0</u>	Section 910.101
<u>Part 3.0</u>	Section 910.102
<u>Part 4.0</u>	Section 910.103
<u>Part 5.0</u>	Section 910.104
Part 6.0	Section 910.105
Figure 1	Appendix A
Figure 2	<u>Appendix B</u>
Figure 3	<u>Appendix C</u>
Figure 4	Appendix D
Figure 5	Appendix E

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

- a) Measurement of highly-impulsive sound under Rule 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 35 Ill. Adm. Code 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 procedures is as follows:
 - A) <u>L_{eq} must be measured for the entire hour.</u>

- 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 35 III. Adm. Code 910.105 and 910.106 must be complied with in order to determine an A-weighted, 1-hour, background-ambient-correct 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) <u>General Measurement Description</u>
 - 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 hours 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:

 $SEL = 10 \log (SE) + 94.$ [Eq. 7]

E) The equivalent level, L_{eq} corresponding to a SEL measured or predicted for one hour (3600 seconds) is given by:

 $\underline{L}_{eq} = SEL - 10 \log (3600).$ [Eq. 8]

- 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 measurement 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-weight 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 long-term background ambient measurement data free of any corrupting short-term background ambient sound are obtained.

IT IS SO ORDERED.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, certify that the Board adopted the above order on February 20, 2003, by a vote of 7-0.

Dorothy M. Gunn, Clerk Illinois Pollution Control Board

Dorothy Mr. Gund