CROSSWALK BETWEEN
STANDARD INDUSTRIAL
CLASSIFICATION (SIC)
CODES AND EMISSION
ACTIVITY GROWTH
FACTORS

FINAL
TECHNICAL
MEMORANDUM

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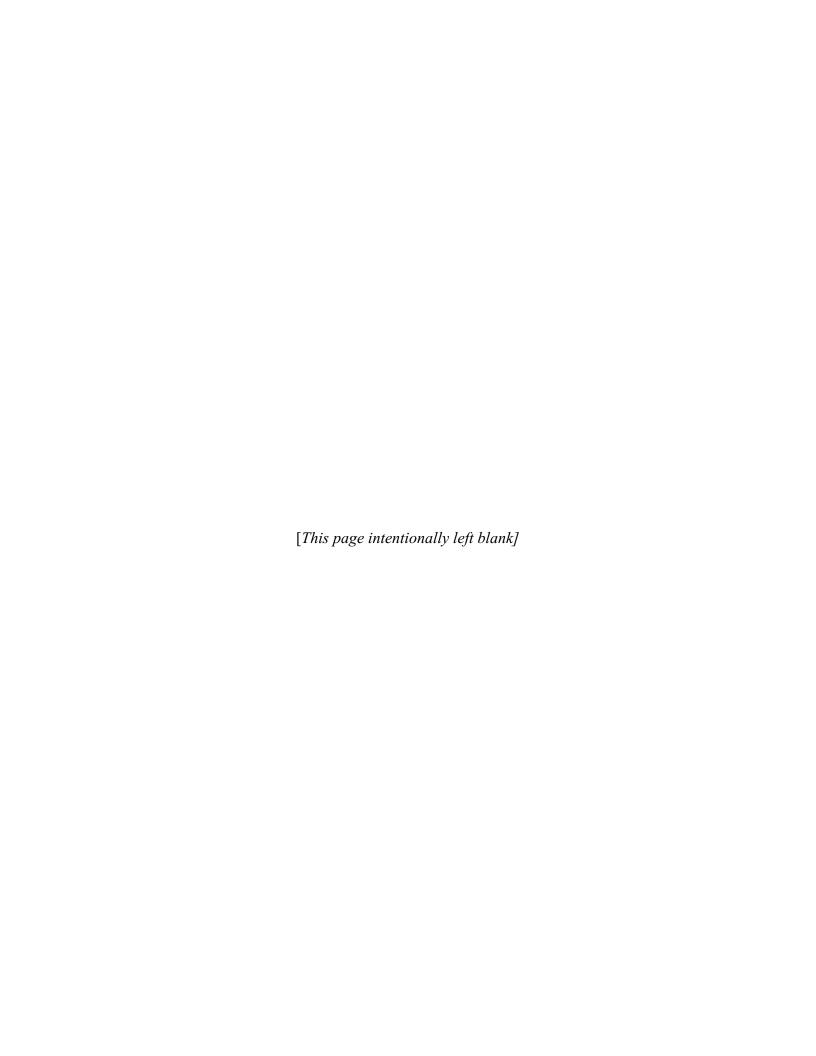
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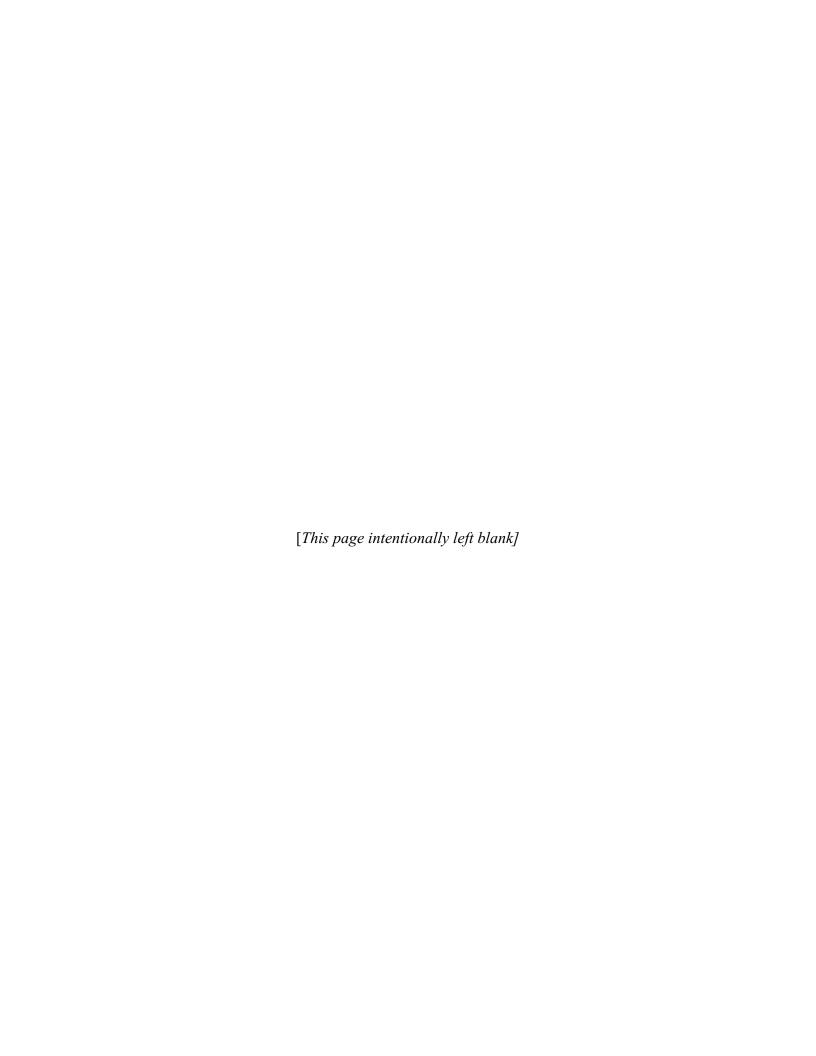
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CHAPTER I. INTRODUCTION

Credible emission growth factor projections are a vital input into a variety of regulatory analyses completed by the U.S. Environmental Protection Agency's (EPA) Office of Air Quality Planning and Standards (OAQPS). In order to produce these emission growth factors, EPA requires an accessible and flexible tool for translating forecasts of economic activity into projected air pollutant emissions growth. The Emissions Monitoring and Assurance Division (EMAD) developed the Economic Growth Analysis System (EGAS) to serve this purpose and to replace the use of Bureau of Economic Analysis (BEA) growth rates for the purpose of projecting emissions for regulatory support. Several versions of EGAS have been developed over the years; however, it is not clear whether the current version of the tool is adequate to meet the requirements for continued regulatory support work and other related efforts. The main purposes of this memorandum are to (1) identify a list of current valid 3-digit Standard Industrial Classification (SIC) codes; (2) assign emission activity growth indicators to each valid SIC; and (3) describe the process used to assign growth indicators to SIC codes.

CHAPTER II. CROSSWALK BETWEEN SIC CODES AND EMISSION ACTIVITY GROWTH INDICATORS

A. METHODOLOGY

1. Identify List of Valid SIC Codes

The first step necessary for developing a comprehensive crosswalk between SIC codes and emission activity growth indicators is to compile a complete list of valid 3-digit SIC codes. Pechan compiled a list of valid 3-digit SIC codes based on the Office of Management and Budget's *Standard Industrial Classification Manual* (OMB, 1998). Table II-1 presents the list of 3-digit SIC codes that will be included in EGAS 5.0.

2. Assign Emission Activity Growth Indicators

The next step was to review available economic activity variables for potential use as emission activity growth indicators for each SIC code. In particular, the economic sectors available from version 5.5 of Regional Economic Models, Inc. (REMI)'s state-level economic models were reviewed as potential surrogate emission growth indicators (Houyoux, 2004). For the majority of SIC codes, Pechan determined a valid REMI economic activity sector using SIC code information provided in the REMI variable description. For example, SIC code 201 was assigned to the REMI sector "Meat Products-SIC 201." In cases where an SIC code is related to more than one growth indicator, the EGAS 5.0 crosswalk identifies each code separately. Discussions with the EGAS 5.0 software developers indicate that the program will use the sum of the REMI data for each indicator in calculating the growth factors for these SIC codes (Hallberg, 2004).

In lieu of better information on the economic activity variable that best correlates with changes in emission activity, Pechan assigned the constant dollar output data as the emission activity growth indicator. The use of these data, rather than employment data, is consistent with past EGAS practice.

It is important to note that EGAS will make use of regression equations to develop some of its emission forecasts for SCCs and MACT codes. However, regression equations are not applied to SIC codes because, unlike SCCs and MACT codes, SIC codes do not define emission processes. Therefore, it is not possible to develop SIC code-based regression analyses relating emission activity trends to trends in socioeconomic activity variables.

B. CROSSWALK

Table II-1 displays the EGAS 5.0 crosswalk linking 3-digit SIC codes to emission activity growth indicators. Tables II-2 presents the comprehensive list of REMI constant dollar output variable sectors and the four non-output REMI variable growth indicator (i.e., Farm Sector value added; Federal Government, Civilian value added; Federal Government, Military value added; State and Local Government Value Added) included in the SIC code crosswalk.

C. RECOMMENDATIONS FOR FUTURE WORK

In keeping with EGAS 4.0, the REMI growth indicator codes incorporated into the Table II-1 crosswalk generally represent REMI constant dollar output data. However, it is not clear that constant dollar output is the best available REMI indicator of emission activity changes. The selection of output data as the appropriate REMI growth indicator is based solely on past EPA practice. Pechan recommends that past performance evaluations be conducted to determine whether alternative REMI variables (e.g., employment) generally provide better surrogates for historical changes in emission activity.

Table II-1. EGAS 5.0 SIC Code Crosswalk

101 Cash Grains	SIC	SIC Description	Code	Code Description
16 Vegetables and Melons	011	Cash Grains	350	l ·
16 Vegetables and Melons	013	Field Crops, Except Cash Grains	350	Farm - SIC 01, 02 (value added)
Farm			350	Farm - SIC 01, 02 (value added)
18			350	,
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	Medical and Dental Laboratories	152	Health services, nec - SIC 807 - 809	
808	Home Health Care Services	152	Health services, nec - SIC 807 - 809	
809	Health and Allied Services, NEC	152	Health services, nec - SIC 807 - 809	
811	Legal Services	153	Legal services - SIC 81	
821	Elementary and Secondary Schools	158	Educational services - SIC 82	
822	Colleges and Universities	158	Educational services - SIC 82	
823	Libraries	158	Educational services - SIC 82	
824	Vocational Schools	158	Educational services - SIC 82	
829	Schools & Educational Services, NEC	158	Educational services - SIC 82	
832	Individual and Family Services	159	Individual and miscellaneous social services - SIC 832, 839	
833	Job Training and Related Services	160	Job training and related services - SIC 833	
835	Child Day Care Services	161	Child day care services - SIC 835	
836	Residential Care	162	Residential care - SIC 836	
	Social Services, NEC	159	Individual and miscellaneous social services - SIC 832, 839	
841	Museums and Art Galleries	163	Museums, botanical, zoological gardens - SIC 84	
842	Botanical and Zoological Gardens	163	Museums, botanical, zoological gardens - SIC 84	
	Business Associations	164	Membership organizations - SIC 86	
	Professional Organizations	164	Membership organizations - SIC 86	
	Labor Organizations	164	Membership organizations - SIC 86	
	Civic and Social Associations	164	Membership organizations - SIC 86	
	Political Organizations	164	Membership organizations - SIC 86	
	Religious Organizations	164	Membership organizations - SIC 86	
	Membership Organizations, NEC	164	Membership organizations - SIC 86	
	Engineering & Architectural Services	154	Engineering and architectural services -SIC 871	
	Accounting, Auditing, & Bookkeeping	157	Accounting, auditing, and other services - SIC 872, 89	
	Research and Testing Services	155	Research and testing services - SIC 873	
	Management and Public Relations	156	Management and public relations - SIC 874	
	Private Households	134	Private households - SIC 88	
	Services, NEC	157	Accounting, auditing, and other services - SIC 872, 89	
	Executive Offices	351	Federal Government, Civilian (value added)	
	Executive Offices	353	State and Local Government (value added)	
	Legislative Bodies	351	Federal Government, Civilian (value added)	
	Legislative Bodies	353	State and Local Government (value added)	
	Executive and Legislative Combined Executive and Legislative Combined	351 353	Federal Government, Civilian (value added) State and Local Government (value added)	
	General Government, NEC	353	Federal Government (value added)	
	General Government, NEC General Government, NEC	353	State and Local Government (value added)	
	Courts	353	Federal Government, Civilian (value added)	
	Courts	353	State and Local Government (value added)	
-	Public Order and Safety	351	Federal Government, Civilian (value added)	
	Public Order and Safety Public Order and Safety	353	State and Local Government (value added)	
	Finance, Taxation, & Monetary Policy	351	Federal Government, Civilian (value added)	
	Finance, Taxation, & Monetary Policy	353	State and Local Government (value added)	
	Admin. of Educational Programs	351	Federal Government, Civilian (value added)	
	Admin. of Educational Programs	353	State and Local Government (value added)	
	Admin. of Public Health Programs	351	Federal Government, Civilian (value added)	
	Admin. of Public Health Programs	353	State and Local Government (value added)	
	Admin. of Social & Manpower Programs	351	Federal Government, Civilian (value added)	
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SIC	SIC Description	Code	Code Description
944	Admin. of Social & Manpower Programs	353	State and Local Government (value added)
945	Administration of Veterans' Affairs	352	Federal Government Military (value added)
951	Environmental Quality	351	Federal Government, Civilian (value added)
951	Environmental Quality	353	State and Local Government (value added)
953	Housing and Urban Development	351	Federal Government, Civilian (value added)
953	Housing and Urban Development	353	State and Local Government (value added)
961	Admin. of General Economic Programs	351	Federal Government, Civilian (value added)
961	Admin. of General Economic Programs	353	State and Local Government (value added)
962	Regulation, Admin. of Transportation	351	Federal Government, Civilian (value added)
	Regulation, Admin. of Transportation	353	State and Local Government (value added)
963	Regulation, Admin. of Utilities	351	Federal Government, Civilian (value added)
963	Regulation, Admin. of Utilities	353	State and Local Government (value added)
964	Regulation of Agricultural Marketing	351	Federal Government, Civilian (value added)
964	Regulation of Agricultural Marketing	353	State and Local Government (value added)
965	Regulation Misc. Commercial Sectors	351	Federal Government, Civilian (value added)
965	Regulation Misc. Commercial Sectors	353	State and Local Government (value added)
966	Space Research and Technology	351	Federal Government, Civilian (value added)
966	Space Research and Technology	353	State and Local Government (value added)
971	National Security	352	Federal Government Military (value added)
972	International Affairs	351	Federal Government, Civilian (value added)
999	Nonclassifiable Establishments	299	Total Output

Table II-2. REMI Growth Indicator Variables

	DECORPTION	DATA 0011D05
CODE	DESCRIPTION	DATA SOURCE
1 2	Logging - SIC 241 Sawmills and planing mills - SIC 242	REMI Output Data
3	Millwork, plywood, and structural members - SIC 243	REMI Output Data REMI Output Data
4	Wood containers and misc. wood products - SIC 244, 249	REMI Output Data
5	Wood buildings and mobile homes - SIC 245	REMI Output Data
6	Household furniture - SIC 251	REMI Output Data
7	Partitions and fixtures - SIC 254	REMI Output Data
8	Office and misc. furniture and fixtures - SIC 252, 253, 259	REMI Output Data
9	Glass and glass products - SIC 321, 322, 323	REMI Output Data
10	Hydraulic cement - SIC 324	REMI Output Data
11	Stone, clay, and misc. mineral products - SIC 325, 326, 328, 329	REMI Output Data
12	Concrete, gypsum, & plaster products - SIC 327	REMI Output Data
13	Blast furnaces and basic steel products - SIC 331	REMI Output Data
14	Iron and steel foundries - SIC 332	REMI Output Data
15	Primary nonferrous smelting & refining - SIC 333	REMI Output Data
16	All other primary metals - SIC 334, 339	REMI Output Data
17 18	Nonferrous rolling and drawing - SIC 335	REMI Output Data
19	Nonferrous foundries - SIC 336 Metal cans and shipping containers - SIC 341	REMI Output Data REMI Output Data
20	Cutlery, hand tools, and hardware - SIC 342	REMI Output Data
21	Plumbing and nonelectric heating equipment - SIC 343	REMI Output Data
22	Fabricated structural metal products - SIC 344	REMI Output Data
23	Screw machine products, bolts, rivets, etc SIC 345	REMI Output Data
24	Metal forgings and stampings - SIC 346	REMI Output Data
25	Metal coating, engraving, and allied services - SIC 347	REMI Output Data
26	Ordnance and ammunition - SIC 348	REMI Output Data
27	Miscellaneous fabricated metal products - SIC 349	REMI Output Data
28	Engines and turbines - SIC 351	REMI Output Data
29	Farm and garden machinery and equipment - SIC 352	REMI Output Data
30	Construction and related machinery - SIC 353	REMI Output Data
31	Metalworking machinery and equipment - SIC 354	REMI Output Data
32 33	Special industry machinery - SIC 355 General industrial machinery and equipment - SIC 356	REMI Output Data REMI Output Data
34	Computer and office equipment - SIC 357	REMI Output Data
35	Refrigeration and service industry machinery - SIC 358	REMI Output Data
36	Industrial machinery, nec - SIC 359	REMI Output Data
37	Electric distribution equipment - SIC 361	REMI Output Data
38	Electrical industrial apparatus - SIC 362	REMI Output Data
39	Household appliances - SIC 363	REMI Output Data
40	Electric lighting and wiring equipment - SIC 364	REMI Output Data
41	Household audio and video equipment - SIC 365	REMI Output Data
42	Communications equipment - SIC 366	REMI Output Data
43	Electronic components and accessories - SIC 367	REMI Output Data
44	Miscellaneous electrical equipment - SIC 369	REMI Output Data
45 46	Motor vehicles and equipment - SIC 371 Aerospace - SIC 372, 376	REMI Output Data
47	Ship and boat building and repairing - SIC 373	REMI Output Data REMI Output Data
48	Railroad equipment - SIC 374	REMI Output Data
49	Miscellaneous transportation equipment - SIC 375, 379	REMI Output Data
50	Search and navigation equipment - SIC 381	REMI Output Data
51	Measuring and controlling devices - SIC 382	REMI Output Data
52	Medical equipment, instruments and supplies - SIC 384	REMI Output Data
53	Ophthalmic goods - SIC 385	REMI Output Data
54	Photographic equipment and supplies -SIC 386	REMI Output Data
55	Watches, clocks, and parts -SIC 387	REMI Output Data
56	Jewelry, silverware, and plated ware - SIC 391	REMI Output Data
57	Toys and sporting goods - SIC 394	REMI Output Data
58 50	Manufactured products, nec - SIC 393, 395, 396, 399	REMI Output Data
59 60	Meat products - SIC 201 Dairy products - SIC 202	REMI Output Data
61	Preserved fruits and vegetables - SIC 203	REMI Output Data REMI Output Data
62	Grain mill products and fats and oils - SIC 204, 207	REMI Output Data
63	Bakery products - SIC 205	REMI Output Data
64	Sugar and confectionery products - SIC 206	REMI Output Data
65	Beverages - SIC 208	REMI Output Data
66	Miscellaneous food and kindred products -SIC 209	REMI Output Data
67	Tobacco products - SIC 21	REMI Output Data
68	Weaving, finishing, yarn, and thread mills - SIC 221 - 224, 226, 228	REMI Output Data

	,	
CODE	DESCRIPTION	DATA SOURCE
69	Knitting mills - SIC 225	REMI Output Data
70	Carpets and rugs - SIC 227	REMI Output Data
71	Miscellaneous textile goods - SIC 229	REMI Output Data
72	Apparel - SIC 231 - 238	REMI Output Data
73	Miscellaneous fabricated textile products - SIC 239	REMI Output Data
74	Pulp, paper, and paperboard mills - SIC 261 - 263	REMI Output Data
75	Paperboard containers and boxes - SIC 265	REMI Output Data
76	Converted paper products except containers - SIC 267	REMI Output Data
77	Newspapers - SIC 271	REMI Output Data
78	Periodicals - SIC 272	REMI Output Data
79	Books - SIC 273	REMI Output Data
80	Miscellaneous publishing - SIC 274	REMI Output Data
81	Commercial printing and business forms - SIC 275, 276	REMI Output Data
82	Greeting cards - SIC 277	REMI Output Data
83	Blankbooks and bookbinding - SIC 278	REMI Output Data
84	Service industries for the printing trade - SIC 279	REMI Output Data
85	Industrial chemicals - SIC 281, 286	REMI Output Data
86	Plastics materials and synthetics - SIC 282	REMI Output Data
87 88	Drugs - SIC 283 Soap, cleaners, and toilet goods - SIC 284	REMI Output Data REMI Output Data
89	Paints and allied products - SIC 285	REMI Output Data
90	Agricultural chemicals - SIC 287	REMI Output Data
91	Miscellaneous chemical products - SIC 289	REMI Output Data
92	Petroleum refining - SIC 291	REMI Output Data
93	Miscellaneous petroleum and coal products - SIC 295, 299	REMI Output Data
94	Tires and inner tubes - SIC 301	REMI Output Data
95	Rubber products and plastic hose and footwear - SIC 302, 305, 306	REMI Output Data
96	Miscellaneous plastics products, nec - SIC 308	REMI Output Data
97	Footwear, except rubber and plastic - SIC 313, 314	REMI Output Data
98	Luggage, handbags, and leather products, nec - SIC 311, 315 - 317, 319	REMI Output Data
99	Metal mining - SIC 10	REMI Output Data
100	Coal mining - SIC 12	REMI Output Data
101	Crude petroleum, natural gas and gas liquids -SIC 131, 132	REMI Output Data
102	Oil and gas field services - SIC 138	REMI Output Data
103	Nonmetallic minerals, except fuels - SIC 14	REMI Output Data
104	Construction - SIC 15, 16, 17	REMI Output Data
105	Railroad transportation - SIC 40	REMI Output Data
106	Trucking and warehousing - SIC 42	REMI Output Data
107	Local and interurban passenger transit - SIC 41	REMI Output Data
108	Air transportation -SIC 45	REMI Output Data
109	Water transportation - SIC 44	REMI Output Data
110	Pipelines, except natural gas -SIC 46	REMI Output Data
111	Passenger transportation arrangement - SIC 472	REMI Output Data
112	Miscellaneous transportation services - SIC 473, 474, 478	REMI Output Data
113	Communications - SIC 48	REMI Output Data
114	Electric utilities - SIC 491, 493	REMI Output Data
115	Gas utilities - SIC 492, 493	REMI Output Data
116 117	Water and sanitation - SIC 494 - 497, 493 Depository institutions - SIC 60	REMI Output Data REMI Output Data
117	Insurance carriers - SIC 63	REMI Output Data
119	Insurance agents, brokers, and services - SIC 64	REMI Output Data
120	Nondepository; holding and investment offices - SIC 61, 67	REMI Output Data
121	Security and commodity brokers - SIC 62	REMI Output Data
122	Real estate - SIC 65	REMI Output Data
123	Eating and drinking places - SIC 58	REMI Output Data
124	Retail trade, exc. eating and drinking places - SIC 52 - 57, 59	REMI Output Data
125	Wholesale trade - SIC 50, 51	REMI Output Data
126	Hotels and other lodging places - SIC 70	REMI Output Data
127	Laundry, cleaning, and shoe repair - SIC 721, 725	REMI Output Data
128	Personal services, nec - SIC 722, 729	REMI Output Data
129	Beauty and barber shops - SIC 723, 724	REMI Output Data
130	Funeral service and crematories - SIC 726	REMI Output Data
131	Electrical repair shops - SIC 762	REMI Output Data
132	Watch, jewelry, & furniture repair - SIC 763 - 764	REMI Output Data
133	Miscellaneous repair services - SIC 769	REMI Output Data
134	Private households - SIC 88	REMI Output Data
135	Automotive rentals, without drivers - SIC 751	REMI Output Data
136	Automobile parking, repair, and services - SIC 752 - 754	REMI Output Data
137	Advertising - SIC 731	REMI Output Data

CODE	DESCRIPTION	DATA SOURCE
138	Services to buildings -SIC 734	REMI Output Data
139	Miscellaneous equipment rental and leasing - SIC 735	REMI Output Data
140	Personnel supply services - SIC 736	REMI Output Data
141	Computer and data processing services - SIC 737	REMI Output Data
142	Miscellaneous business services - SIC 732, 733, 738	REMI Output Data
143	Producers, orchestras, and entertainers - SIC 792	REMI Output Data
144	Bowling centers - SIC 793	REMI Output Data
145	Commercial sports - SIC 794	REMI Output Data
146	Amusement and recreation services, nec - SIC 791, 799	REMI Output Data
147	Motion pictures - SIC 781 - 783	REMI Output Data
148	Video tape rental - SIC 784	REMI Output Data
149	Offices of health practitioners - SIC 801 - 804	REMI Output Data
150	Nursing and personal care facilities - SIC 805	REMI Output Data
151	Hospitals - SIC 806	REMI Output Data
152	Health services, nec - SIC 807 - 809	REMI Output Data
153	Legal services - SIC 81	REMI Output Data
154	Engineering and architectural services -SIC 871	REMI Output Data
155	Research and testing services - SIC 873	REMI Output Data
156	Management and public relations - SIC 874	REMI Output Data
157	Accounting, auditing, and other services - SIC 872, 89	REMI Output Data
158	Educational services - SIC 82	REMI Output Data
159	Individual and miscellaneous social services - SIC 832, 839	REMI Output Data
160	Job training and related services - SIC 833	REMI Output Data
161	Child day care services - SIC 835	REMI Output Data
162	Residential care - SIC 836	REMI Output Data
163	Museums, botanical, zoological gardens - SIC 84	REMI Output Data
164	Membership organizations - SIC 86	REMI Output Data
165	Agricultural services - SIC 07	REMI Output Data
166	Forestry, fishing, hunting, & trapping - SIC 08, 09	REMI Output Data
350	Farm - SIC 01, 02 (value added)	REMI Value Added Data
351	Federal Government, Civilian (value added)	REMI Value Added Data
352	Federal Government Military (value added)	REMI Value Added Data
353	State and Local Government (value added)	REMI Value Added Data

CHAPTER III. REFERENCES

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