

Appendix 1
Benchmark Industry Cluster Definitions

<i>Cluster Name</i>	<i>IMPLAN sector</i>	<i>Description</i>	<i>NAICS</i>
1. Advanced Materials			
	25	Sand, gravel, clay, and refractory mining	21232
	110	Footwear manufacturing	3162
	129	Coated and laminated paper and packaging materials	32221, 32222
	135	All other converted paper product manufacturing	322299
	145	Petroleum lubricating oil and grease manufacturing	324191
	147	Petrochemical manufacturing	32511
	148	Industrial gas manufacturing	32512
	149	Synthetic dye and pigment manufacturing	32513
	150	Other basic inorganic chemical manufacturing	32518
	151	Other basic organic chemical manufacturing	32519
	152	Plastics material and resin manufacturing	325211
	153	Synthetic rubber manufacturing	325212
	154	Cellulosic organic fiber manufacturing	325221
	155	Noncellulosic organic fiber manufacturing	325222
	160	Pharmaceutical and medicine manufacturing	32541
	161	Paint and coating manufacturing	32551
	162	Adhesive manufacturing	32552
	163	Soap and other detergent manufacturing	325611
	164	Polish and other sanitation good manufacturing	325612
	165	Surface active agent manufacturing	325613
	166	Toilet preparation manufacturing	32562
	172	Plastics packaging materials, film and sheet	32611
	173	Plastics pipe, fittings, and profile shapes	32612
	177	Plastics plumbing fixtures and all other plastics products	326191, 326199
	178	Foam product manufacturing	32614, 32615
	181	Other rubber product manufacturing	32629
	183	Vitreous china and earthenware articles manufacturing	327112
	184	Porcelain electrical supply manufacturing	327113
	187	Nonclay refractory manufacturing	327125
	188	Clay refractory and other structural clay products	327123, 327124
	197	Gypsum product manufacturing	32742
	198	Abrasive product manufacturing	32791
	200	Ground or treated minerals and earths manufacturing	327992
	201	Mineral wool manufacturing	327993
	203	Iron and steel mills	331111
	204	Ferrous alloy and related product manufacturing	331112
	205	Iron, steel pipe and tube from purchased steel	33121
	206	Rolled steel shape manufacturing	331221
	207	Steel wire drawing	331222
	209	Primary aluminum production	331312
	210	Secondary smelting and alloying of aluminum	331314
	211	Aluminum sheet, plate, and foil manufacturing	331315
	212	Aluminum extruded product manufacturing	331316
	213	Other aluminum rolling and drawing	331319
	214	Primary smelting and refining of copper	331411
	215	Primary nonferrous metal, except copper and aluminum	331419
	216	Copper rolling, drawing, and extruding	331421
	217	Copper wire, except mechanical, drawing	331422
	218	Secondary processing of copper	331423
	219	Nonferrous metal, except copper and aluminum	331491
	220	Secondary processing of other nonferrous	331492
	221	Ferrous metal foundries	33151
	222	Aluminum foundries	331521, 331524
	223	Nonferrous foundries, except aluminum	331522, 331525, 331528
	224	Iron and steel forging	332111
	227	All other forging and stamping	332115, 332116, 332117

234	Plate work manufacturing	332313
236	Sheet metal work manufacturing	332322
242	Spring and wire products manufacturing	3326
243	Machine shops	33271
246	Metal coating and nonprecious engraving	332812
247	Electroplating, anodizing, and coloring metal	332813
248	Metal valve manufacturing	33291
249	Ball and roller bearing manufacturing	332991
251	Other ordnance and accessories manufacturing	332995
253	Industrial pattern manufacturing	332997
255	Miscellaneous fabricated metal product manufacturing	332999
269	All other industrial machinery manufacturing	333298
270	Office machinery manufacturing	333313
273	Other commercial and service industry machinery	333319
279	Industrial mold manufacturing	333511
281	Metal forming machine tool manufacturing	333513
282	Special tool, die, jig, and fixture manufacturing	333514
283	Cutting tool and machine tool accessory manufacturing	333515
284	Rolling mill and other metalworking machinery	333516, 333518
289	Air and gas compressor manufacturing	333912
305	Other computer peripheral equipment manufacturing	334119
307	Broadcast and wireless communications equipment	33422
308	Other communications equipment manufacturing	33429
310	Electron tube manufacturing	334411
311	Semiconductors and related device manufacturing	334413
312	All other electronic component manufacturing	334412, 334414, 334415, 334416, 334417, 334418, 334419
313	Electromedical apparatus manufacturing	334510
314	Search, detection, and navigation instruments	334511
315	Automatic environmental control manufacturing	334512
316	Industrial process variable instruments	334513
317	Totalizing fluid meters and counting devices	334514
318	Electricity and signal testing instruments	334515
320	Irradiation apparatus manufacturing	344517
321	Watch, clock, and other measuring and controlling	334518, 334519
325	Electric lamp bulb and part manufacturing	33511
336	Relay and industrial control manufacturing	335314
339	Fiber optic cable manufacturing	335921
341	Wiring device manufacturing	33593
350	Motor vehicle parts manufacturing	3363
355	Propulsion units and parts for space vehicles and	336415, 336419
374	Laboratory apparatus and furniture manufacturing	339111
375	Surgical and medial instrument manufacturing	339112
376	Surgical appliance and supplies manufacturing	339113
385	Gasket, packing, and sealing device manufacturing	339991
439	Architectural and engineering services	5413
446	Scientific research and development services	5417
2. Agribusiness, Food Processing and Technology		
1	Oilseed farming	11111, 11112
2	Grain farming	11113, 11114, 11115, 11116, 11119
3	Vegetable and melon farming	1112
4	Tree nut farming	111335
5	Fruit farming	11131, 11132, 11133 (exc. 111335)
6	Greenhouse and nursery production	1114
7	Tobacco farming	11191
8	Cotton farming	11192
9	Sugarcane and sugar beet farming	11193, 111991
10	All other crop farming	11194, 111992, 111998
11	Cattle ranching and farming	11211, 11212, 11213
12	Poultry and egg production	1123
13	Animal production, except cattle and poultry and	1122, 1124, 1125,

	eggs	1129
16	Fishing	1141
18	Agriculture and forestry support activities	115
46	Dog and cat food manufacturing	311111
47	Other animal food manufacturing	311119
48	Flour milling	311211
49	Rice milling	311212
50	Malt manufacturing	311213
51	Wet corn milling	311221
52	Soybean processing	311222
53	Other oilseed processing	311223
54	Fats and oils refining and blending	311225
55	Breakfast cereal manufacturing	31123
56	Sugar manufacturing	31131
57	LI	31132
58	Confectionery manufacturing from purchased chocolate	31133
59	Nonchocolate confectionery manufacturing	31134
60	Frozen food manufacturing	31141
61	Fruit and vegetable canning and drying	31142
62	Fluid milk manufacturing	311511
63	Creamery butter manufacturing	311512
64	Cheese manufacturing	311513
65	Dry, condensed, and evaporated dairy products	311514
66	Ice cream and frozen dessert manufacturing	31152
67	Animal, except poultry, slaughtering	311611
68	Meat processed from carcasses	311612
69	Rendering and meat byproduct processing	311613
70	Poultry processing	311615
71	Seafood product preparation and packaging	3117
72	Frozen cakes and other pastries manufacturing	311813
73	Bread and bakery product, except frozen, manufacturing	311811, 311812
74	Cookie and cracker manufacturing	311821
75	Mixes and dough made from purchased flour	311822
76	Dry pasta manufacturing	311823
77	Tortilla manufacturing	31183
78	Roasted nuts and peanut butter manufacturing	311911
79	Other snack food manufacturing	311919
80	Coffee and tea manufacturing	31192
81	Flavoring syrup and concentrate manufacturing	31193
82	Mayonnaise, dressing, and sauce manufacturing	311941
83	Spice and extract manufacturing	311942
84	All other food manufacturing	31199
85	Soft drink and ice manufacturing	31211
86	Breweries	31212
87	Wineries	31213
88	Distilleries	31214
89	Tobacco stemming and redrying	31221
90	Cigarette manufacturing	312221
91	Other tobacco product manufacturing	312229
156	Nitrogenous fertilizer manufacturing	325311
157	Phosphatic fertilizer manufacturing	325312
158	Fertilizer, mixing only, manufacturing	325314
159	Pesticide and other agricultural chemical manufacturing	32532
257	Farm machinery and equipment manufacturing	333111
258	Lawn and garden equipment manufacturing	333112
267	Food product machinery manufacturing	333294
3. Apparel and Textiles		
92	Fiber, yarn, and thread mills	3131
93	Broadwoven fabric mills	31321
94	Narrow fabric mills and schiffli embroidery	31322
95	Nonwoven fabric mills	31323
96	Knit fabric mills	31324
97	Textile and fabric finishing mills	31331
98	Fabric coating mills	31332
99	Carpet and rug mills	31411
100	Curtain and linen mills	31412
101	Textile bag and canvas mills	31491

102	Tire cord and tire fabric mills	314992
103	Other miscellaneous textile product mills	314991, 314999
104	Sheer hosiery mills	315111
105	Other hosiery and sock mills	315119
106	Other apparel knitting mills	31519
107	Cut and sew apparel manufacturing	3152
108	Accessories and other apparel manufacturing	3159
139	Commercial printing	323111, 323112, 323113, 323114, 323115, 323119
149	Synthetic dye and pigment manufacturing	32513
154	Cellulosic organic fiber manufacturing	235221
155	Noncellulosic organic fiber manufacturing	325222
198	Abrasive product manufacturing	32791
363	Upholstered household furniture manufacturing	337121
372	Mattress manufacturing	33791
389	Buttons, pins, and all other miscellaneous	339993, 339999
440	Specialized design services	5414
447	Advertising and related services	5418
4. Arts, Entertainment, Recreation and Visitors Services		
381	Sporting and athletic goods manufacturing	33992
382	Doll, toy, and game manufacturing	33993
397	Scenic and sightseeing transportation and support	487, 488
418	Motion picture and video industries	5121
419	Sound recording industries	5122
420	Radio and television broadcasting	5131
456	Travel arrangement and reservation services	5615
471	Performing arts companies	7111
472	Spectator sports	7112
473	Independent artists, writers, and performers	7115
474	Promoters of performing arts and sports and agents for	7113, 7114
475	Museums, historical sites, zoos, and parks	712
476	Fitness and recreational sport centers	71394
477	Bowling centers	71395
478	Other amusement, gambling, and recreation industries	7131, 7132, 71391, 71392, 71393, 71399
479	Hotels and motels, including casino hotels	72111, 72112
480	Other accommodations	72119, 7212, 7213
5. Biomedical/Biotechnical (Life Sciences)		
160	Pharmaceutical and medicine manufacturing	32541
271	Optical instrument and lens manufacturing	333314
313	Electromedical apparatus manufacturing	334510
319	Analytical laboratory instrument manufacturing	334516
320	Irradiation apparatus manufacturing	334517
374	Laboratory apparatus and furniture manufacturing	339111
375	Surgical and medical instrument manufacturing	339112
376	Surgical appliance and supplies manufacturing	339113
377	Dental equipment and supplies manufacturing	339114
378	Ophthalmic goods manufacturing	339115
379	Dental laboratories	339116
406	Health and personal care stores	446
446	Scientific research and development services	5417
460	Waste management and remediation services	562
464	Home health care services	6216
465	Offices of physicians, dentists, and other health	6211, 6212, 6213
466	Other ambulatory health care services	6214, 6215, 6219
467	Hospitals	622
6. Business and Financial Services		
136	Manifold business forms printing	323116
139	Commercial printing	323111, 323112, 323113, 323114, 323115, 323119
423	Information services	5133
424	Data processing services	5142

425	Nondepository credit intermediation and related	5222, 5223
426	Securities, commodity contracts, investments	523
427	Insurance carriers	5241
428	Insurance agencies, brokerages, and related	5242
429	Funds, trusts, and other financial vehicles	525
431	Real estate	531
436	Lessors of nonfinancial intangible assets	533
437	Legal services	5411
438	Accounting and bookkeeping services	5412
439	Architectural and engineering services	5413
440	Specialized design services	5414
441	Custom computer programming services	541511
442	Computer systems design services	541512
443	Other computer related services, including facilities	541513, 541519
444	Management consulting services	54161
445	Environmental and other technical consulting serv	54162, 54169
447	Advertising and related services	5418
448	Photographic services	54192
450	All other miscellaneous professional and technical	54191, 54193, 54199
7. Chemicals		
147	Petrochemical manufacturing	32511
148	Industrial gas manufacturing	32512
149	Synthetic dye and pigment manufacturing	32513
150	Other basic inorganic chemical manufacturing	32518
151	Other basic organic chemical manufacturing	32519
152	Plastics material and resin manufacturing	325211
153	Synthetic rubber manufacturing	325212
154	Cellulosic organic fiber manufacturing	325221
155	Noncellulosic organic fiber manufacturing	325222
156	Nitrogenous fertilizer manufacturing	325311
157	Phosphatic fertilizer manufacturing	325312
158	Fertilizer, mixing only, manufacturing	325314
159	Pesticide, and other agricultural chemical manufacturing	32532
160	Pharmaceutical and medicine manufacturing	32541
161	Paint and coating manufacturing	32551
162	Adhesive manufacturing	32552
163	Soap and other detergent manufacturing	325611
164	Polish and other sanitation good manufacturing	325612
165	Surface active agent manufacturing	325613
166	Toilet preparation manufacturing	32562
167	Printing ink manufacturing	32591
168	Explosives manufacturing	32592
169	Custom compounding of purchased resins	325991
170	Photographic film and chemical manufacturing	325992
171	Other miscellaneous chemical product manufacturing	325998
172	Plastics packaging materials, film and sheet	32611
173	Plastics pipe, fittings, and profile shapes	32612
174	Laminated plastics plate, sheet, and shapes	32613
175	Plastics bottle manufacturing	32616
176	Resilient floor covering manufacturing	326192
177	Plastics plumbing fixtures and all other plastics	326191, 326199
178	Foam product manufacturing	32614, 32615
179	Tire manufacturing	32621
180	Rubber and plastics hose and belting manufacturing	32622
181	Other rubber product manufacturing	32629
182	Vitreous china plumbing fixture manufacturing	327111
183	Vitreous china and earthenware articles manufacturing	327112
184	Porcelain electrical supply manufacturing	327113
185	Brick and structural clay tile manufacturing	327121
186	Ceramic wall and floor tile manufacturing	327122
187	Nonclay refractory manufacturing	327125
188	Clay refractory and other structural clay products	327123, 327124
189	Glass container manufacturing	327213
190	Glass and glass products, except glass containers	327211, 327212, 327215
191	Cement manufacturing	32731
192	Ready-mix concrete manufacturing	32732

193	Concrete block and brick manufacturing	327331
194	Concrete pipe manufacturing	327332
195	Other concrete product manufacturing	32739
196	Lime manufacturing	327332
197	Gypsum product manufacturing	32742
198	Abrasive product manufacturing	32791
199	Cut stone and stone product manufacturing	327991
200	Grand or treated minerals and earths manufacturing	327992
201	Mineral wool manufacturing	327993
202	Miscellaneous nonmetallic mineral products	327999
8. Defense and Security		
23	Gold, silver, and other metal ore mining	21222, 21229
168	Explosives manufacturing	32592
248	Metal valve manufacturing	33291
250	Small arms manufacturing	332994
251	Other ordnance and accessories manufacturing	332995
256	Ammunition manufacturing	332992, 332993
308	Other communications equipment manufacturing	33429
314	Search, detection, and navigation instruments	334511
351	Aircraft manufacturing	336411
352	Aircraft engine and engine parts manufacturing	336412
353	Other aircraft parts and equipment	336413
354	Guided missile and space vehicle manufacturing	336414
355	Propulsion units and parts for space vehicles	336415, 336419
357	Ship building and repairing	336611
358	Boat building	336612
360	Military armored vehicles and tank parts manufacturing	336992
376	Surgical appliance and supplies manufacturing	339113
441	Custom computer programming services	541511
442	Computer systems design services	541512
443	Other computer related services, including facilities	541513, 541519
446	Scientific research and development services	5417
457	Investigation and security services	5616
486	Household goods repair and maintenance	8114
505	Federal Military	
9. Education and Knowledge Creation		
413	Newspaper publishers	51111
414	Periodical publishers	51112
415	Book publishers	51113
423	Information services	5141
461	Elementary and secondary schools	6111
462	Colleges, universities, and junior colleges	6112, 6113
463	Other educational services	6114, 6115, 6116, 6117
503	State and local education	
Energy (Fossil and Renewable)		
19	Oil and gas extraction	211
20	Coal mining	2121
23	Gold, silver, and other metal ore mining	21222, 21229
27	Drilling oil and gas wells	213111
28	Support activities for oil and gas operators	213112
29	Support activities for other mining	213113, 213114, 213115
30	Power generation and supply	2211
31	Natural gas distribution	2212
32	Water, sewage and other systems	2213
238	Power boiler and heat exchanger manufacturing	33241
239	Metal tank, heavy gauge, manufacturing	33242
260	Mining machinery and equipment manufacturing	333131
261	Oil and gas field machinery and equipment	333132
277	Heating equipment, except warm air furnaces	333414
285	Turbine and turbine generator set units manufacturing	333611
311	Semiconductors and related device manufacturing	334413
321	Watch, clock, and other measuring and controlling	334518, 334519
333	Electric power and specialty transformer manufacturing	335311

334	Motor generator manufacturing	335312
335	Switchgear and switchboard apparatus manufacturing	335313
336	Relay and industrial control manufacturing	335314
337	Storage battery manufacturing	335911
338	Primary battery manufacturing	335912
339	Fiber optic cable manufacturing	335921
340	Other communication and energy wire manufacturing	335929
341	Wiring device manufacturing	33593
342	Carbon and graphite product manufacturing	335991
343	Miscellaneous electrical equipment manufacturing	335999
396	Pipeline transportation	486
407	Gasoline stations	447
412	Nonstore retailers	454
426	Securities, eommodity contracts, investments	523
434	Machinery and equipment rental and leasing	5324
436	Lessors of nonfinancial intangible assets	533
439	Architectural and engineering services	5413
445	Environmental and other technical consulting services	54162, 54169
446	Scientific research and development services	5417
11. Forest and Wood Products		
14	Logging	1122, 1124, 1125, 1129
15	Forest nurseries, forest products, and timber tracts	1131, 1132
18	Agriculture and forestry support activities	115
112	Sawmills	321113
113	Wood preservation	321114
114	Reconstituted wood product manufacturing	321219
115	Veneer and plywood manufacturing	321211, 321212
116	Engineered wood member and truss manufacturing	321213, 321214
117	Wood windows and door manufacturing	321911
118	Cut stock, resawing lumber, and planing	321912
119	Other millwork, including flooring	321918
120	Wood container and pallet manufacturing	32192
121	Manufactured home, mobile home, manufacturing	321991
122	Prefabricated wood building manufacturing	321992
123	Miscellaneous wood product manufacturing	321999
124	Pulp mills	32211
125	Paper and paperboard mills	32212, 32213
126	Paperboard container manufacturing	32221
127	Flexible packaging foil manufacturing	322225
128	Surface-coated paperboard manufacturing	322226
129	Coated and laminated paper and packaging materials	322221, 322222
130	Coated and uncoated paper bag manufacturing	322223, 322224
131	Die-cut paper office supplies manufacturing	322231
132	Envelope manufacturing	322232
133	Stationery and related product manufacturing	322233
134	Sanitary paper product manufacturing	322291
135	All other converted paper product manufacturing	322299
137	Books printing	323117
151	Other basic organic chemical manufacturing	32519
161	Paint and coating manufacturing	32551
162	Adhesive manufacturing	32552
198	Abrasive product manufacturing	32791
230	Saw blade and handsaw manufacturing	332213
262	Sawmill and woodworking machinery	33321
264	Paper industry machinery manufacturing	333291
295	Power-driven handtool manufacturing	333991
362	Wood kitchen cabinet and countertop manufacturing	33711
363	Upholstered household furniture Manufacturing	337121
364	Nonupholstered wood household furniture	337122
366	Institutional furniture manufacturing	337127
367	Other household and institutional furniture	337125, 337129
368	Wood office furniture manufacturing	337211
369	Custom architectural woodwork and millwork	337212
371	Showcases, partitions, shelving, and lockers	337215

372	Mattress manufacturing	33791
373	Blind and shade manufacturing	33792
386	Musical instrument manufacturing	339992
388	Burial casket manufacturing	339995
12. Glass and Ceramics		
182	Vitreous china plumbing fixture manufacturing	327111
183	Vitreous china and earthenware articles manufacturing	327112
184	Porcelain electrical supply manufacturing	327113
185	Brick and structural clay tile manufacturing	327121
186	Ceramic wall and floor tile manufacturing	327122
187	Nonclay refractory manufacturing	327125
188	Clay refractory and other structural clay products	327123, 327124
189	Glass container manufacturing	327213
190	Glass and glass products, except glass containers	327211, 327212, 327215
191	Cement manufacturing	32731
192	Ready-mix concrete manufacturing	32732
193	Concrete block and brick manufacturing	327331
194	Concrete pipe manufacturing	327332
195	Other concrete product manufacturing	32739
200	Ground or treated minerals and earths manufacturing	327992
202	Miscellaneous nonmetallic mineral products	327999
245	Metal heat treating	332811
246	Metal coating and nonprecious engraving	332812
247	Electroplating, anodizing, and coloring metal	332813
13. Information Technology and Telecommunications		
268	Semiconductor machinery manufacturing	333295
287	Speed changers and mechanical power transmission	333612, 333613
302	Electronic computer manufacturing	334111
303	Computer storage device manufacturing	334112
304	Computer terminal manufacturing	334113
305	Other computer peripheral equipment manufacturing	334119
306	Telephone apparatus manufacturing	33421
307	Broadcast and wireless communications equipment	33422
308	Other communications equipment manufacturing	33429
309	Audio and video equipment manufacturing	3343
310	Electron tube manufacturing	334411
311	Semiconductors and related device manufacturing	334413
312	All other electronic component manufacturing	334412, 334414, 334415, 334416, 334417, 334418, 334419
315	Automatic environmental control manufacturing	334512
316	Industrial process variable instruments	334513
318	Electricity and signal testing instruments	334515
319	Analytical laboratory instrument manufacturing	334516
321	Watch, clock, and other measuring and controlling	334518, 334519
322	Software reproducing	334611
323	Audio and video media reproduction	334612
324	Magnetic and optical recording media manufacturing	334613
333	Electric power and specialty transformer manufacturing	335311
334	Motor and generator manufacturing	335312
335	Switchgear and switchboard apparatus manufacturing	335313
336	Relay and industrial control manufacturing	335314
337	Storage battery manufacturing	335911
338	Primary battery manufacturing	335912
339	Fiber optic cable manufacturing	335921
340	Other communication and energy wire manufacturing	335929
341	Wiring device manufacturing	33593
342	Carbon and graphite product manufacturing	335991
343	Miscellaneous electrical equipment manufacturing	335999
417	Software publishers	5112
422	Telecommunications	5133

423	Information services	5141
424	Data processing services	5142
441	Custom computer programming services	541511
442	Computer systems design services	541512
443	Other computer related services, including facilities	541513, 541519
444	Management consulting services	54161
446	Scientific research and development services	5417
14. Transportation and Logistics		
391	Air transportation	481
392	Rail transportation	482
393	Water transportation	483
394	Truck transportation	484
395	Transit and ground passenger transportation	485
396	Pipeline transportation	486
397	Scenic and sightseeing transportation and support	486
399	Couriers and messengers	492
400	Warehousing and storage	493
15. Primary metal manufacturing		
203	Iron and steel mills	331111
204	Ferroalloy and related product manufacturing	331112
205	Iron, steel pipe and tube from purchased steel	33121
206	Rolled steel shape manufacturing	331221
207	Steel wire drawing	331222
208	Alumina refining	331311
209	Primary aluminum production	331312
210	Secondary smelting and alloying of aluminum	331314
211	Aluminum sheet, plate, and foil manufacturing	331315
212	Aluminum extruded product manufacturing	331316
213	Other aluminum rolling and drawing	331319
214	Primary smelting and refining of copper	331411
215	Primary nonferrous metal, except copper and aluminum	331419
216	Copper rolling, drawing, and extruding	331421
217	Copper wire, except mechanical, drawing	331422
218	Secondary processing of copper	331423
219	Nonferrous metal, except copper and aluminum	331491
220	Secondary processing of other nonferrous	331492
221	Ferrous metal foundries	33151
222	Aluminum foundries	331521, 331524
223	Nonferrous foundries, except aluminum	331522, 331525, 331528
16. Fabricated metal product manufacturing		
224	Iron and steel forging	332111
225	Nonferrous forging	332112
226	Custom roll forming	332114
227	All other forging and stamping	332115, 332116, 332117
228	Cutlery and flatware, except precious, manufacturing	332211
229	Hand and edge tool manufacturing	332212
230	Saw blade and handsaw manufacturing	332213
231	Kitchen utensil, pot, and pan manufacturing	332214
232	Prefabricated metal buildings and components	332311
233	Fabricated structural metal manufacturing	332312
234	Plate work manufacturing	332313
235	Metal window and door manufacturing	332321
236	Sheet metal work manufacturing	332322
237	Ornamental and architectural metal work manufacturing	332323
238	Power boiler and heat exchanger manufacturing	33241
239	Metal tank, heavy gauge, manufacturing	33242
240	Metal can, box, and other container manufacturing	33243
241	Hardware manufacturing	3325
242	Spring and wire product manufacturing	3326
243	Machine shops	33271
244	Turned product and screw, nut, and bolt manufacturing	33272
245	Metal heat treating	332811

246	Metal coating and nonprecious engraving	332812
247	Electroplating, anodizing, and coloring metal	332813
248	Metal valve manufacturing	33291
249	Ball and roller bearing manufacturing	332991
252	Fabricated pipe and pipe fitting manufacturing	332996
253	Industrial pattern manufacturing	332997
254	Enameled iron and metal sanitary ware manufacturing	332998
255	Miscellaneous fabricated metal product manufacturing	332999
17. Machinery manufacturing		
257	Farm machinery and equipment manufacturing	333111
258	Lawn and garden equipment manufacturing	333112
259	Construction machinery manufacturing	33312
260	Mining machinery and equipment manufacturing	333131
261	Oil and gas field machinery and equipment	333132
262	Sawmill and woodworking machinery	33321
263	Plastics and rubber industry machinery	33322
264	Paper industry machinery manufacturing	333291
265	Textile machinery manufacturing	333292
266	Printing machinery and equipment manufacturing	333293
267	Food product machinery manufacturing	333294
268	Semiconductor machinery manufacturing	333295
269	All other industrial machinery manufacturing	333298
270	Office machinery manufacturing	333313
271	Optical instrument and lens manufacturing	333314
272	Photographic and photocopying equipment	333315
273	Other commercial and service industry machinery	333319
274	Automatic vending, commercial laundry, and drycleaning	333311, 333312
275	Air purification equipment manufacturing	333411
276	Industrial and commercial fan and blower manufacturing	333412
277	Heating equipment, except warm air furnaces	333414
278	AC, refrigeration, and forced air heating	333415
279	Industrial mold manufacturing	333511
280	Metal cutting machine tool manufacturing	333512
281	Metal forming machine tool manufacturing	333513
282	Special tool, die, jig, and fixture manufacturing	333514
283	Cutting tool and machine tool accessory manufacturing	333515
284	Rolling mill and other metalworking machinery	333516, 333518
285	Turbine and turbine generator set units manufacturing	333611
286	Other engine equipment manufacturing	333618
287	Speed changers and mechanical power transmission	333612, 333613
288	Pump and pumping equipment manufacturing	333911
289	Air and gas compressor manufacturing	333912
290	Measuring and dispensing pump manufacturing	333913
291	Elevator and moving stairway manufacturing	333921
292	Conveyor and conveying equipment manufacturing	333922
293	Overhead cranes, hoists, and monorail systems	333923
294	Industrial truck, trailer, and stacker manufacturing	333924
295	Power-driven handtool manufacturing	333991
296	Welding and soldering equipment manufacturing	333992
297	Packaging and machinery manufacturing	333993
298	Industrial process furnace and oven manufacturing	333994
299	Fluid power cylinder and actuator manufacturing	333995
300	Fluid power pump and motor manufacturing	333996
301	Scales, balances, and miscellaneous general purpose	333997, 333999
18. Computer and electronic product manufacturing		
302	Electronic computer manufacturing	334111
303	Computer storage device manufacturing	334112
304	Computer terminal manufacturing	334113
305	Other computer peripheral equipment manufacturing	334119
306	Telephone apparatus manufacturing	33421

307	Broadcast and wireless communications equipment	33422
308	Other communications equipment manufacturing	33429
309	Audio and video equipment manufacturing	3343
310	Electron tube manufacturing	334411
311	Semiconductors and related device manufacturing	334413
312	All other electronic component manufacturing	334412, 334414, 334415, 334416, 334417, 334418, 334419
313	Electromedical apparatus manufacturing	334510
314	Search, detection and navigation instruments	334511
315	Automatic environmental control manufacturing	334512
316	Industrial process variable instruments	334513
319	Analytical laboratory instrument manufacturing	334516
320	Irradiation apparatus manufacturing	334517
321	Watch, clock, and other measuring and controlling	334518, 334519
322	Software reproducing	334611
323	Audio and video media reproduction	334612
324	Magnetic and optical recording media manufacturing	334613
19. Electrical equipment, appliance and component manufacturing		
325	Electric lamp bulb and part manufacturing	33511
326	Lighting fixture manufacturing	33512
327	Electric housewares and household fan manufacturing	335211
328	Household vacuum cleaner manufacturing	335212
329	Household cooking appliance manufacturing	335221
330	Household refrigerator and home freezer manufacturing	335222
331	Household laundry equipment manufacturing	335224
332	Other major household appliance manufacturing	335228
333	Electric power and specialty transformer manufacturing	335311
334	Motor and generator manufacturing	335312
335	Switchgear and switchboard apparatus manufacturing	335313
336	Relay and industrial control manufacturing	335314
337	Storage battery manufacturing	335911
338	Primary battery manufacturing	335912
339	Fiber optic cable manufacturing	335921
340	Other communication and energy wire manufacturing	335929
341	Wiring device manufacturing	33593
342	Carbon and graphite product manufacturing	335991
343	Miscellaneous electrical equipment manufacturing	335999
20. Transportation equipment manufacturing		
344	Automobile and light truck manufacturing	33611
345	Heavy duty truck manufacturing	33612
346	Motor vehicle body manufacturing	336211
347	Truck trailer manufacturing	336212
348	Motor home manufacturing	336213
349	Travel trailer and camper manufacturing	336214
350	Motor vehicle parts manufacturing	3363
351	Aircraft manufacturing	336411
352	Aircraft engine and engine parts manufacturing	336412
353	Other aircraft parts and equipment	336413
354	Guided missile and space vehicle manufacturing	336414
355	Propulsion units and parts for space vehicles and	336415, 336419
356	Railroad rolling stock manufacturing	3365
357	Ship building and repairing	336611
358	Boat building	336612
359	Motorcycle, bicycle, and parts manufacturing	336991
360	Military armored vehicles and tank parts manufacturing	336992
361	All other transportation equipment manufacturing	336999
21. Mining		

21	Iron ore mining	21221
22	Copper, Nickel, lead, and zinc mining	21223
23	Gold, silver, and other metal ore mining	21222, 21229
24	Stone mining and quarrying	21231
25	Sand, gravel, clay and refractory mining	21232
26	Other nonmetallic mineral mining	21239
29	Support activities for other mining	213113, 213114, 213115
392	Rail transportation	482
434	Machinery and equipment rental and leasing	5324
22. Printing and Publishing		
136	Manifold business forms printing	323116
137	Books printing	323117
138	Blankbook and looseleaf binder manufacturing	323118
139	Commercial printing	323111, 323112, 323113, 323114, 323115, 323119
140	Tradebinding and related work	323121
141	Prepress services	323122
167	Printing ink manufacturing	32591
384	Sign manufacturing	33995
413	Newspaper publishers	51111
414	Periodical publishers	51112
415	Book publishers	51113
416	Database, directory, and other publishers	51114, 51119
417	Software publishers	5112
420	Radio and television broadcasting	5131
421	Cable networks and program distribution	5132
440	Specialized design services	5414
447	Advertising and related services	5418
448	Photographic services	54192
450	All other miscellaneous professional and technical	54191, 54193, 54199