

# HIBBING DATA APPENDIX

## Employment

### Location Quotients

Hibbing vs Northeast Minnesota  
Hibbing vs Minnesota

### Shift-Share

Hibbing vs Northeast Minnesota  
Hibbing vs Minnesota

## Output

### Location Quotients

Hibbing vs Northeast Minnesota  
Hibbing vs Minnesota

### Shift-Share

Hibbing vs Northeast Minnesota  
Hibbing vs Minnesota

## Value Added

### Location Quotients

Hibbing vs Northeast Minnesota  
Hibbing vs Minnesota

### Shift-Share

Hibbing vs Northeast Minnesota  
Hibbing vs Minnesota

Source: Minnesota IMPLAN Group, Inc., IMPLAN System (1996 data and 1999 software IMPLAN Pro version 2), 1940 South Greeley Street, Suite 101, Stillwater, MN 55082, [www.implan.com](http://www.implan.com), 1999.

## 1996 Employment Location Quotient Analysis

### 1) Hibbing vs NE Minnesota

### 2) Hibbing vs Minnesota

#### Hibbing as compared to Northeast Minnesota

		Sorted by:	
	1996 NE MN	1996 Hibbing	Location Quotient
<b>IMPLAN Sector</b>			
<b>Total - All Industries</b>	<b>169982</b>	<b>11332</b>	
<b>Mining (SIC 10-14)</b>			
28 Iron Ores	6021	858	2.14
29 Copper Ores	2	0	0.00
<b>Manufacturing (SIC 20-39)</b>			
378 Electronic Components, N.E.C.	325	294	13.57
259 Iron and Steel Foundries	298	136	6.85
334 Blowers and Fans	99	99	15.00
219 Fabricated Rubber Products, N.E.C.	134	91	10.19
376 Printed Circuit Boards	81	81	15.00
284 Fabricated Plate Work (Boiler Shops)	63	63	15.00
59 Sausages and Other Prepared Meats	58	58	15.00
191 Plastics Materials and Resins	44	44	15.00
389 Aircraft	91	35	5.77
280 Plumbing Fixture Fittings and Trim	80	31	5.81
354 Industrial Machines N.E.C.	350	29	1.24
174 Newspapers	733	26	0.53
399 Transportation Equipment, N.E.C.	119	22	2.77
294 Metal Stampings, N.E.C.	29	19	9.83
133 Logging Camps and Logging Contract	607	19	0.47

313 Oil Field Machinery	32	12	5.63
283 Metal Doors, Sash, and Trim	13	9	10.38
403 Mechanical Measuring Devices	18	9	7.50
355 Transformers	22	8	5.45
404 Instruments To Measure Electricity	17	6	5.29
97 Canned and Cured Sea Foods	36	6	2.50
337 Industrial Furnaces and Ovens	17	6	5.29
211 Paving Mixtures and Blocks	18	5	4.17
220 Miscellaneous Plastics Products	74	4	0.81
368 Wiring Devices	11	4	5.45
213 Lubricating Oils and Greases	14	4	4.29
387 Truck Trailers	9	4	6.67
130 Automotive and Apparel Trimmings	28	3	1.61
321 Special Dies and Tools and Accessorie	115	3	0.39
412 Ophthalmic Goods	4	2	7.50
179 Commercial Printing	357	2	0.08
198 Surface Active Agents	8	2	3.75
263 Secondary Nonferrous Metals	6	2	5.00
420 Games, Toys, and Childrens Vehicles	17	2	1.76
314 Elevators and Moving Stairways	5	2	6.00
319 Machine Tools, Metal Forming Types	7	1	2.14
95 Bottled and Canned Soft Drinks & Wat	22	1	0.68
247 Cut Stone and Stone Products	2	1	7.50
295 Plating and Polishing	9	1	1.67
67 Canned Fruits and Vegetables	4	1	3.75
102 Macaroni and Spaghetti	3	1	5.00
119 Coated Fabrics, Not Rubberized	33	1	0.45
241 Pottery Products, N.E.C	10	1	1.50
276 Hand and Edge Tools, N.E.C.	4	1	3.75
373 Radio and Tv Communication Equipme	3	1	5.00
206 Explosives	90	0	0.00

**Services (SIC 70-89)**

492 Hospitals	6083	404	1.00
490 Doctors and Dentists	6096	379	0.93
504 Labor and Civic Organizations	4084	332	1.22
491 Nursing and Protective Care	2993	310	1.55

493 Other Medical and Health Services	1873	284	2.27
470 Other Business Services	1008	239	3.56
496 Colleges, Universities, Schools	1143	215	2.82
464 Laundry, Cleaning and Shoe Repair	751	195	3.89
463 Hotels and Lodging Places	3873	120	0.46
480 Electrical Repair Service	280	116	6.21
506 Engineering, Architectural Services	719	81	1.69
495 Elementary and Secondary Schools	572	79	2.07
474 Personnel Supply Services	1145	76	1.00
479 Automobile Repair and Services	1119	76	1.02
500 Social Services, N.E.C.	1322	71	0.81
507 Accounting, Auditing and Bookkeeping	1899	67	0.53
469 Advertising	187	56	4.49
494 Legal Services	932	52	0.84
466 Beauty and Barber Shops	1115	46	0.62
499 Child Day Care Services	306	36	1.76
482 Miscellaneous Repair Shops	631	31	0.74
509 Research, Development & Testing Ser	458	24	0.79
483 Motion Pictures	449	20	0.67
476 Detective and Protective Services	264	20	1.14
488 Amusement and Recreation Services,	3522	19	0.08
467 Funeral Service and Crematories	253	19	1.13
472 Services To Buildings	849	18	0.32
465 Portrait and Photographic Studios	149	17	1.71
503 Business Associations	285	16	0.84
505 Religious Organizations	258	14	0.81
498 Job Trainings & Related Services	609	10	0.25
501 Residential Care	2257	10	0.07
489 Membership Sports and Recreation Cl	188	10	0.80
485 Bowling Alleys and Pool Halls	183	8	0.66
473 Equipment Rental and Leasing	161	7	0.65
508 Management and Consulting Services	939	5	0.08
484 Theatrical Producers, Bands Etc.	135	3	0.33
486 Commercial Sports Except Racing	63	0	0.00
468 Miscellaneous Personal Services	355	0	0.00
502 Other Nonprofit Organizations	378	0	0.00
471 Photofinishing, Commercial Photograp	105	0	0.00

**Retail (SIC 52-59)**

454 Eating & Drinking	9814	520	0.79
450 Food Stores	4509	313	1.04
455 Miscellaneous Retail	6957	269	0.58
451 Automotive Dealers & Service Stations	3984	216	0.81
449 General Merchandise Stores	3638	200	0.82
452 Apparel & Accessory Stores	2036	155	1.14
448 Building Materials & Gardening	1718	85	0.74
453 Furniture & Home Furnishings Stores	1000	41	0.62

**Hibbing as compared to  
State of Minnesota**

	1996 MN	Sorted by: 1996 Hibbing	Location Quotient
<b>Total - All Industries</b>	<b>3066081</b>	<b>11332</b>	
<b>Mining (SIC 10-14)</b>			
28 Iron Ores	6022	858	38.55
29 Copper Ores	2	0	0.00
<b>Manufacturing (SIC 20-39)</b>			
378 Electronic Components, N.E.C.	3631	294	21.91
259 Iron and Steel Foundries	1622	136	22.69
334 Blowers and Fans	1778	99	15.07
219 Fabricated Rubber Products, N.E.C.	2579	91	9.55
376 Printed Circuit Boards	9066	81	2.42
284 Fabricated Plate Work (Boiler Shops)	2284	63	7.46
59 Sausages and Other Prepared Meats	4394	58	3.57
191 Plastics Materials and Resins	234	44	50.88
389 Aircraft	144	35	65.76
280 Plumbing Fixture Fittings and Trim	94	31	89.23
354 Industrial Machines N.E.C.	9756	29	0.80

174 Newspapers	13283	26	0.53
399 Transportation Equipment, N.E.C	4230	22	1.41
294 Metal Stampings, N.E.C.	4210	19	1.22
133 Logging Camps and Logging Contract	896	19	5.74
313 Oil Field Machinery	32	12	101.46
283 Metal Doors, Sash, and Trim	427	9	5.70
403 Mechanical Measuring Devices	6918	9	0.35
355 Transformers	579	8	3.74
404 Instruments To Measure Electricity	839	6	1.93
97 Canned and Cured Sea Foods	354	6	4.59
337 Industrial Furnaces and Ovens	588	6	2.76
211 Paving Mixtures and Blocks	323	5	4.19
220 Miscellaneous Plastics Products	16452	4	0.07
368 Wiring Devices	1764	4	0.61
213 Lubricating Oils and Greases	156	4	6.94
387 Truck Trailers	590	4	1.83
130 Automotive and Apparel Trimmings	1238	3	0.66
321 Special Dies and Tools and Accessorie	5488	3	0.15
412 Ophthalmic Goods	1933	2	0.28
179 Commercial Printing	25485	2	0.02
198 Surface Active Agents	8	2	67.64
263 Secondary Nonferrous Metals	157	2	3.45
420 Games, Toys, and Childrens Vehicles	276	2	1.96
314 Elevators and Moving Stairways	177	2	3.06
319 Machine Tools, Metal Forming Types	174	1	1.55
95 Bottled and Canned Soft Drinks & Wat	2082	1	0.13
247 Cut Stone and Stone Products	1264	1	0.21
295 Plating and Polishing	2153	1	0.13
67 Canned Fruits and Vegetables	2612	1	0.10
102 Macaroni and Spaghetti	265	1	1.02
119 Coated Fabrics, Not Rubberized	71	1	3.81
241 Pottery Products, N.E.C	65	1	4.16
276 Hand and Edge Tools, N.E.C.	1592	1	0.17
373 Radio and Tv Communication Equipme	1524	1	0.18
206 Explosives	90	0	0.00

**Services (SIC 70-89)**

492 Hospitals	63811	404	1.71
490 Doctors and Dentists	75658	379	1.36
504 Labor and Civic Organizations	40354	332	2.23
491 Nursing and Protective Care	54442	310	1.54
493 Other Medical and Health Services	25005	284	3.07
470 Other Business Services	33182	239	1.95
496 Colleges, Universities, Schools	25311	215	2.30
464 Laundry, Cleaning and Shoe Repair	15501	195	3.40
463 Hotels and Lodging Places	32834	120	0.99
480 Electrical Repair Service	2544	116	12.34
506 Engineering, Architectural Services	22040	81	0.99
495 Elementary and Secondary Schools	13977	79	1.53
474 Personnel Supply Services	65822	76	0.31
479 Automobile Repair and Services	19247	76	1.07
500 Social Services, N.E.C.	25700	71	0.75
507 Accounting, Auditing and Bookkeeping	41421	67	0.44
469 Advertising	8028	56	1.89
494 Legal Services	25187	52	0.56
466 Beauty and Barber Shops	23848	46	0.52
499 Child Day Care Services	9210	36	1.06
482 Miscellaneous Repair Shops	9584	31	0.88
509 Research, Development & Testing Ser	10865	24	0.60
483 Motion Pictures	10798	20	0.50
476 Detective and Protective Services	9000	20	0.60
488 Amusement and Recreation Services,	40626	19	0.13
467 Funeral Service and Crematories	3108	19	1.65
472 Services To Buildings	18595	18	0.26
465 Portrait and Photographic Studios	3761	17	1.22
503 Business Associations	6163	16	0.70
505 Religious Organizations	4208	14	0.90
498 Job Trainings & Related Services	8782	10	0.31
501 Residential Care	23629	10	0.11
489 Membership Sports and Recreation Cl	8899	10	0.30
485 Bowling Alleys and Pool Halls	3911	8	0.55
473 Equipment Rental and Leasing	3773	7	0.50
508 Management and Consulting Services	21117	5	0.06

484 Theatrical Producers, Bands Etc.	4438	3	0.18
486 Commercial Sports Except Racing	1276	0	0.00

**Retail (SIC 52-59)**

454 Eating & Drinking	157467	520	0.89
450 Food Stores	63942	313	1.32
455 Miscellaneous Retail	112900	269	0.64
451 Automotive Dealers & Service Stations	54600	216	1.07
449 General Merchandise Stores	64270	200	0.84
452 Apparel & Accessory Stores	20682	155	2.03
448 Building Materials & Gardening	21535	85	1.07
453 Furniture & Home Furnishings Stores	24217	41	0.46

## 1993 - 1996 Employment Shift-Share Analysis:

### 1) Hibbing vs NE Minnesota

### 2) Hibbing vs Minnesota

Hibbing as compared to  
Northeast Minnesota:

Sorted by:

IMPLAN Sector	1993 NE MN	1996 NE MN	1993 Hibbing	1996 Hibbing	Share	Mix	Competition	Change
<b>Total - All Industries</b>	<b>162999</b>	<b>169982</b>	<b>10844</b>	<b>11332</b>	<b>464.57</b>	<b>0.00</b>	<b>23.43</b>	<b>488</b>
<b>Mining (SIC 10-14)</b>								
28 Iron Ores	5820	6021	792	858	33.93	-6.58	38.65	66
29 Copper Ores	0	2	0	0				
<b>Manufacturing (SIC 20-39)</b>								
378 Electronic Components, N.E.C.	0	325	0	294	0.00			
259 Iron and Steel Foundries	379	298	79	136	3.38	-20.27	73.88	57
334 Blowers and Fans	40	99	40	99	1.71	57.29	0.00	59
219 Fabricated Rubber Products, N.E.C.	80	134	76	91	3.26	48.04	-36.30	15
376 printed Circuit Boards	467	81	0	81	0.00	0.00		
284 Fabricated Plate Work (Boiler Shops)	6	63	1	63	0.04	9.46	52.50	62
59 Sausages and Other Prepared Meats	39	58	5	58	0.21	2.22	50.56	53
191 Plastics Materials and Resins	4	44	1	44	0.04	9.96	33.00	43
389 Aircraft	0	91	0	35	0.00			
280 Plumbing Fixture Fittings and Tri	0	80	0	31	0.00			
354 Industrial Machines N.E.C.	211	350	0	29	0.00	0.00		
174 Newspapers	682	733	33	26	1.41	1.05	-9.47	-7
399 Transportation equipment	11	119	0	22	0.00	0.00		
294 Metal Stampings, N.E.C.	34	29	24	19	1.03	-4.56	-1.47	-5
133 Logging Camps and Logging Contractors	440	607	5	19	0.21	1.68	12.10	14
313 Oil Field Machinery	1	32	1	12	0.04	30.96	-20.00	11
283 Metal Doors, Sash, and Trim	62	13	62	9	2.66	-51.66	-4.00	-53

403 Mechanical Measuring Devices	0	18	0	9	0.00			
355 Transformers	0	22	0	8	0.00			
404 Instruments To Measure Electricity	9	17	5	6	0.21	4.23	-3.44	1
97 Canned and Cured Sea Foods	20	36	3	6	0.13	2.27	0.60	3
337 Industrial Furnaces and Ovens	0	17	0	6	0.00			
211 Paving Mixtures and Blocks	26	18	0	5	0.00			
220 Miscellaneous Plastics Products	59	74	37	4	1.59	7.82	-42.41	-33
368 Wiring Devices	4	11	2	4	0.09	3.41	-1.50	2
213 Lubricating Oils and Greases	0	14	0	4	0.00			
387 Truck Trailers	9	9	0	4	0.00	0.00		
130 Automative and Apparel Trimmir	46	28	0	3	0.00	0.00		
321 Special Dies and Tools and Accessories	120	115	0	3	0.00	0.00		
412 Ophthalmic Goods	10	4	5	2	0.21	-3.21	0.00	-3
179 Commercial Printing	358	357	3	2	0.13	-0.14	-0.99	-1
198 Surface Active Agents	9	8	3	2	0.13	-0.46	-0.67	-1
263 Secondary Nonferrous Metals	16	6	2	2	0.09	-1.34	1.25	0
420 Games, Toys, and Childrens Vehicles	7	17	2	2	0.09	2.77	-2.86	0
314 Elevators and Moving Stairways	1	5	1	2	0.04	3.96	-3.00	1
319 Machine Tools, Metal Forming Types	3	7	2	1	0.09	2.58	-3.67	-1
95 Bottled and Canned Soft Drinks & Water	16	22	1	1	0.04	0.33	-0.38	0
247 Cut Stone and Stone Products	2	2	1	1	0.04	-0.04	0.00	0
295 Plating and Polishing	3	9	1	1	0.04	1.96	-2.00	0
67 Canned Fruits and Vegetables	13	4	0	1	0.00	0.00		
102 Macaroni and Spaghetti	6	3	0	1	0.00	0.00		
119 Coated Fabrics, Not Rubberized	47	33	0	1	0.00	0.00		
241 Pottery Products, N.E.C.	6	10	0	1	0.00	0.00		
276 Hand and Edge Tools, N.E.C.	271	4	0	1	0.00	0.00		
373 Radio and TV Communications	0	3	0	1	0.00			
206 Explosives	62	90	21	0	0.90	8.58	-30.48	-21
331 Special Industry Machinery N.E.C.	58	10	16	0	0.69	-13.93	-2.76	-16
282 Fabricated Structural Metal	50	32	9	0	0.39	-3.63	-5.76	-9
192 Synthetic Rubber	11	0	4	0	0.17	-4.17	0.00	-4
217 Rubber and Plastics Hose and Belting	12	0	4	0	0.17	-4.17	0.00	-4
215 Tires and Inner Tubes	9	0	3	0	0.13	-3.13	0.00	-3
244 Ready-mixed Concrete	168	124	3	0	0.13	-0.91	-2.21	-3
75 Blended and Prepared Flour	11	0	2	0	0.09	-2.09	0.00	-2
197 Polishes and Sanitation Goods	5	0	2	0	0.09	-2.09	0.00	-2

137 Millwork	28	84	1	0	0.04	1.96	-3.00	-1
151 Mattresses and Bedsprings	7	0	1	0	0.04	-1.04	0.00	-1
152 Wood Tv and Radio Cabinets	7	0	1	0	0.04	-1.04	0.00	-1
158 Metal Partitions and Fixtures	1	2	1	0	0.04	0.96	-2.00	-1
162 Paper Mills, Except Building Paper	3621	3540	1	0	0.04	-0.07	-0.98	-1
182 Blankbooks and Looseleaf Binder	4	2	1	0	0.04	-0.54	-0.50	-1
184 Typesetting	5	2	1	0	0.04	-0.64	-0.40	-1
209 Chemical Preparations, N.E.C	3	2	1	0	0.04	-0.38	-0.67	-1
210 Petroleum Refining	5	0	1	0	0.04	-1.04	0.00	-1
242 Concrete Block and Brick	23	14	1	0	0.04	-0.43	-0.61	-1
288 Miscellaneous Metal Work	8	0	1	0	0.04	-1.04	0.00	-1
317 Industrial Trucks and Tractors	6	14	1	0	0.04	1.29	-2.33	-1
391 Aircraft and Missile Equipment,	2	0	1	0	0.04	-1.04	0.00	-1
58 Meat Packing Plants	0	2	0	0	0.00			

**Services (SIC 70-89)**

492 Hospitals	5954	6083	550	404	23.56	-11.65	-157.92	-146
490 Doctors and Dentists	4852	6096	390	379	16.71	83.28	-110.99	-11
504 Labor and Civic Organizations	3267	4084	259	332	11.10	53.67	8.23	73
491 Nursing and Protective Care	2940	2993	331	310	14.18	-8.21	-26.97	-21
493 Other Medical and Health Services	1396	1873	117	284	5.01	34.97	127.02	167
470 Other Business Services	490	1008	131	239	5.61	132.87	-30.49	108
496 Colleges, Universities, Schools	659	1143	4	215	0.17	2.77	208.06	211
464 Laundry, Cleaning and Shoe Repair	614	751	203	195	8.70	36.60	-53.29	-8
463 Hotels and Lodging Places	3882	3873	92	120	3.94	-4.15	28.21	28
506 Engineering, Architectural Services	898	719	193	81	8.27	-46.74	-73.53	-112
495 Elementary and Secondary Schools	310	572	50	79	2.14	40.12	-13.26	29
474 Personnel Supply Services	1201	1145	139	76	5.95	-12.44	-56.52	-63
479 Automobile Repair and Services	869	1119	100	76	4.28	24.48	-52.77	-24
500 Social Services, N.E.C.	1891	1322	76	71	3.26	-26.12	17.87	-5
507 Accounting, Auditing and Bookkeeping	754	1899	47	67	2.01	69.36	-51.37	20
469 Advertising	190	187	82	56	3.51	-4.81	-24.71	-26
494 Legal Services	1108	932	55	52	2.36	-11.09	5.74	-3
466 Beauty and Barber Shops	1109	1115	58	46	2.48	-2.17	-12.31	-12
499 Child Day Care Services	178	306	12	36	0.51	8.12	15.37	24
482 Miscellaneous Repair Shops	464	631	4	31	0.17	1.27	25.56	27
509 Research, Development & Testing Service	423	458	22	24	0.94	0.88	0.18	2

483 Motion Pictures	503	449	37	20	1.59	-5.56	-13.03	-17	
476 Detective and Protective Services	88	264	6	20	0.26	11.74	2.00	14	
488 Amusement and Recreation Services, N.E	2886	3522	68	19	2.91	12.07	-63.99	-49	
467 Funeral Service and Crematories	200	253	19	19	0.81	4.22	-5.04	0	
472 Services To Buildings	1017	849	53	18	2.27	-11.03	-26.24	-35	
465 Portrait and Photographic Studios	129	149	19	17	0.81	2.13	-4.95	-2	
503 Business Associations	251	285	12	16	0.51	1.11	2.37	4	
505 Religious Organizations	101	258	5	14	0.21	7.56	1.23	9	
498 Job Trainings & Related Services	457	609	53	10	2.27	15.36	-60.63	-43	
501 Residential Care	2087	2257	38	10	1.63	1.47	-31.10	-28	
489 Membership Sports and Recreation Clubs	259	188	5	10	0.21	-1.58	6.37	5	
485 Bowling Alleys and Pool Halls	230	183	19	8	0.81	-4.70	-7.12	-11	
473 Equipment Rental and Leasing	159	161	6	7	0.26	-0.18	0.92	1	
486 Commercial Sports Except Racing	83	63	8	0	0.34	-2.27	-6.07	-8	
468 Miscellaneous Personal Services	179	355	2	0	0.09	1.88	-3.97	-2	
502 Other Nonprofit Organizations	385	378	2	0	0.09	-0.12	-1.96	-2	
471 Photofinishing, Commercial Photography	214	105	0	0	0.00	0.00			
<b>Retail (SIC 52-59)</b>									
454 Eating & Drinking	9655	9814	549	520	23.52	-14.48	-38.04	-29	
450 Food Stores	3585	4509	266	313	11.40	57.16	-21.56	47	
455 Miscellaneous Retail	6591	6957	427	269	18.29	5.42	-181.71	-158	
451 Automotive Dealers & Service Stations	3682	3984	240	216	10.28	9.40	-43.68	-24	
449 General Merchandise Stores	3795	3638	272	200	11.65	-22.91	-60.75	-72	
452 Apparel & Accessory Stores	1546	2036	146	155	6.25	40.02	-37.27	9	
448 Building Materials & Gardening	1582	1718	113	85	4.84	4.87	-37.71	-28	
453 Furniture & Home Furnishings Stores	914	1000	32	41	1.37	1.64	5.99	9	
<b>Hibbing as compared to State of Minnesota</b>									
<b>Mining (SIC 10-14)</b>									
28 Iron Ores	5842	6022	792	858	61.33	-36.93	41.60	66	
<b>Manufacturing (SIC 20-39)</b>									

378 Electronic Components, N.E.C.	4472	3631	0	294	0.00	0.00		
259 Iron and Steel Foundries	1468	1622	79	136	6.12	2.17	48.71	57
334 Blowers and Fans	1399	1778	40	99	3.10	7.74	48.16	59
219 Fabricated Rubber Products, N.E.C.	2116	2579	76	91	5.89	10.74	-1.63	15
376 Printed Circuit Boards	6240	9066	0	81	0.00	0.00		
284 Fabricated Plate Work (Boiler Shops)	1969	2284	1	63	0.08	0.08	61.84	62
59 Sausages and Other Prepared Meats	2837	4394	5	58	0.39	2.36	50.26	53
191 Plastics Materials and Resins	136	234	1	44	0.08	0.64	42.28	43
389 Aircraft	28	144	0	35	0.00	0.00		
280 Plumbing Fixture Fittings and Trim	231	94	0	31	0.00	0.00		
354 Industrial Machines N.E.C.	8564	9756	0	29	0.00	0.00		
174 Newspapers	13874	13283	33	26	2.56	-3.96	-5.59	-7
399 Transportation Equipment, N.E.C	2414	4230	0	22	0.00	0.00		
294 Metal Stampings, N.E.C.	3099	4210	24	19	1.86	6.75	-13.60	-5
133 Logging Camps and Logging Contractors	808	896	5	19	0.39	0.16	13.46	14
313 Oil Field Machinery	1	32	1	12	0.08	30.92	-20.00	11
<b>283</b> Metal Doors, Sash, and Trim	622	427	62	9	4.80	-24.24	-33.56	-53
403 Mechanical Measuring Devices	5769	6918	0	9	0.00	0.00		
355 Transformers	493	579	0	8	0.00	0.00		
404 Instruments To Measure Electricity	773	839	5	6	0.39	0.04	0.57	1
97 Canned and Cured Sea Foods	269	354	3	6	0.23	0.72	2.05	3
337 Industrial Furnaces and Ovens	468	588	0	6	0.00	0.00		
211 Paving Mixtures and Blocks	280	323	0	5	0.00	0.00		
220 Miscellaneous Plastics Products	14204	16452	37	4	2.87	2.99	-38.86	-33
368 Wiring Devices	3189	1764	2	4	0.15	-1.05	2.89	2
213 Lubricating Oils and Greases	40	156	0	4	0.00	0.00		
387 Truck Trailers	490	590	0	4	0.00	0.00		
130 Automotive and Apparel Trimmings	826	1238	0	3	0.00	0.00		
321 Special Dies and Tools and Accessories	5173	5488	0	3	0.00	0.00		
412 Ophthalmic Goods	1615	1933	5	2	0.39	0.60	-3.98	-3
179 Commercial Printing	22393	25485	3	2	0.23	0.18	-1.41	-1
198 Surface Active Agents	9	8	3	2	0.23	-0.57	-0.67	-1
263 Secondary Nonferrous Metals	359	157	2	2	0.15	-1.28	1.13	0
420 Games, Toys, and Childrens Vehicles	208	276	2	2	0.15	0.50	-0.65	0
314 Elevators and Moving Stairways	38	177	1	2	0.08	3.58	-2.66	1
319 Machine Tools, Metal Forming Types	157	174	2	1	0.15	0.06	-1.22	-1
95 Bottled and Canned Soft Drinks & Water	2005	2082	1	1	0.08	-0.04	-0.04	0

247 Cut Stone and Stone Products	1150	1264	1	1	0.08	0.02	-0.10	0
295 Plating and Polishing	2076	2153	1	1	0.08	-0.04	-0.04	0
67 Canned Fruits and Vegetables	2309	2612	0	1	0.00	0.00		
102 Macaroni and Spaghetti	338	265	0	1	0.00	0.00		
119 Coated Fabrics, Not Rubberized	47	71	0	1	0.00	0.00		
241 Pottery Products, N.E.C	71	65	0	1	0.00	0.00		
276 Hand and Edge Tools, N.E.C.	2246	1592	0	1	0.00	0.00		
373 Radio and Tv Communication Equipment	1163	1524	0	1	0.00	0.00		
206 Explosives	62	90	21	0	1.63	7.86	-30.48	-21

**Services (SIC 70-89)**

492 Hospitals	62601	63811	550	404	42.59	-31.96	-156.63	-146
490 Doctors and Dentists	71746	75658	390	379	30.20	-8.94	-32.27	-11
504 Labor and Civic Organizations	38111	40354	259	332	20.06	-4.81	57.76	73
491 Nursing and Protective Care	52104	54442	331	310	25.63	-10.78	-35.85	-21
493 Other Medical and Health Services	21942	25005	117	284	9.06	7.27	150.67	167
470 Other Business Services	25925	33182	131	239	10.14	26.52	71.33	108
496 Colleges, Universities, Schools	20378	25311	4	215	0.31	0.66	210.03	211
464 Laundry, Cleaning and Shoe Repair	14242	15501	203	195	15.72	2.22	-25.95	-8
463 Hotels and Lodging Places	30888	32834	92	120	7.12	-1.33	22.20	28
480 Electrical Repair Service	2389	2544	0	116	0.00	0.00		
506 Engineering, Architectural Services	18642	22040	193	81	14.95	20.23	-147.18	-112
495 Elementary and Secondary Schools	10977	13977	50	79	3.87	9.79	15.34	29
474 Personnel Supply Services	58265	65822	139	76	10.76	7.26	-81.03	-63
479 Automobile Repair and Services	15902	19247	100	76	7.74	13.29	-45.04	-24
500 Social Services, N.E.C.	23654	25700	76	71	5.89	0.69	-11.57	-5
507 Accounting, Auditing and Bookkeeping	20980	41421	47	67	3.64	42.15	-25.79	20
469 Advertising	8982	8028	82	56	6.35	-15.06	-17.29	-26
494 Legal Services	23430	25187	55	52	4.26	-0.13	-7.12	-3
466 Beauty and Barber Shops	21567	23848	58	46	4.49	1.64	-18.13	-12
499 Child Day Care Services	9529	9210	12	36	0.93	-1.33	24.40	24
482 Miscellaneous Repair Shops	7857	9584	4	31	0.31	0.57	26.12	27
509 Research, Development & Testing Service	9181	10865	22	24	1.70	2.33	-2.04	2
483 Motion Pictures	9507	10798	37	20	2.87	2.16	-22.02	-17
476 Detective and Protective Services	8077	9000	6	20	0.46	0.22	13.31	14
488 Amusement and Recreation Services, N.E	35159	40626	68	19	5.27	5.31	-59.57	-49
467 Funeral Service and Crematories	2711	3108	19	19	1.47	1.31	-2.78	0

472 Services To Buildings	21543	18595	53	18	4.10	-11.36	-27.75	-35
465 Portrait and Photographic Studios	4700	3761	19	17	1.47	-5.27	1.80	-2
503 Business Associations	6377	6163	12	16	0.93	-1.33	4.40	4
505 Religious Organizations	2343	4208	5	14	0.39	3.59	5.02	9
498 Job Trainings & Related Services	5639	8782	53	10	4.10	25.44	-72.54	-43
501 Residential Care	22034	23629	38	10	2.94	-0.19	-30.75	-28
489 Membership Sports and Recreation Clubs	9984	8899	5	10	0.39	-0.93	5.54	5
485 Bowling Alleys and Pool Halls	4206	3911	19	8	1.47	-2.80	-9.67	-11
473 Equipment Rental and Leasing	3616	3773	6	7	0.46	-0.20	0.74	1
508 Management and Consulting Services	17492	21117	0	5	0.00	0.00		
484 Theatrical Producers, Bands Etc.	4722	4438	0	3	0.00	0.00		
486 Commercial Sports Except Racing	1132	1276	8	0	0.62	0.40	-9.02	-8
<b>Retail (SIC 52-59)</b>								
454 Eating & Drinking	146997	157467	549	520	42.52	-3.41	-68.10	-29
450 Food Stores	60433	63942	266	313	20.60	-5.15	31.55	47
455 Miscellaneous Retail	102560	112900	427	269	33.07	9.98	-201.05	-158
451 Automotive Dealers & Service Stations	49505	54600	240	216	18.59	6.11	-48.70	-24
449 General Merchandise Stores	59649	64270	272	200	21.06	0.01	-93.07	-72
452 Apparel & Accessory Stores	22701	20682	146	155	11.31	-24.29	21.99	9
448 Building Materials & Gardening	19190	21535	113	85	8.75	5.06	-41.81	-28
453 Furniture & Home Furnishings Stores	18898	24217	32	41	2.48	6.53	-0.01	9

## 1993-1996 Output Location Quotient Analysis

### 1) Hibbing vs NE Minnesota

### 2) Hibbing vs Minnesota

#### Hibbing as compared to Northeast Minnesota

	Sorted by:		
	<b>Hibbing Output</b>	<b>NE Minnesota Output</b>	<b>Location Quotient</b>
<b>Total - All Industries</b>	<b>853</b>	<b>12462</b>	
<b><i>Mining SIC 10-14</i></b>			
28 Iron Ores	198	1391	2.08
<b><i>Manufacturing SIC 20-39</i></b>			
378 Electronic Components, N.E.C.	51	57	13.22
191 Plastics Materials and Resins	21	21	14.61
259 Iron and Steel Foundries	17	38	6.64
59 Sausages and Other Prepared Meats	13	13	14.61
219 Fabricated Rubber Products, N.E.C.	11	16	9.85
334 Blowers and Fans	8	8	14.61
284 Fabricated Plate Work (Boiler Shops)	6	6	14.61
389 Aircraft	6	15	5.61
280 Plumbing Fixture Fittings and Trim	5	14	5.61
376 Printed Circuit Boards	5	5	14.61
399 Transportation Equipment, N.E.C	5	25	2.70
133 Logging Camps and Logging Contractors	3	96	0.44
354 Industrial Machines N.E.C.	3	37	1.14
294 Metal Stampings, N.E.C.	2	4	9.74
211 Paving Mixtures and Blocks	2	8	4.03
213 Lubricating Oils and Greases	2	7	4.03
174 Newspapers	2	48	0.56
313 Oil Field Machinery	1	3	5.49
198 Surface Active Agents	1	4	4.03
403 Mechanical Measuring Devices	1	2	7.31

283 Metal Doors, Sash, and Trim	1	2	10.23
263 Secondary Nonferrous Metals	1	2	5.61
404 Instruments To Measure Electricity	1	2	5.48
337 Industrial Furnaces and Ovens	1	2	5.48
355 Transformers	1	2	5.48
220 Miscellaneous Plastics Products	1	12	0.81
387 Truck Trailers	1	1	5.61

**Services SIC 70-89**

490 Doctors and Dentists	34	530	0.95
492 Hospitals	23	343	1.00
470 Other Business Services	12	52	3.36
493 Other Medical and Health Services	12	80	2.15
491 Nursing and Protective Care	10	97	1.55
480 Electrical Repair Service	9	21	6.05
496 Colleges, Universities, Schools	7	39	2.75
479 Automobile Repair and Services	6	85	1.01
464 Laundry, Cleaning and Shoe Repair	6	19	4.19
506 Engineering, Architectural Services	5	47	1.66
463 Hotels and Lodging Places	5	154	0.45
469 Advertising	5	14	4.95
504 Labor and Civic Organizations	5	55	1.20
494 Legal Services	4	67	0.84
495 Elementary and Secondary Schools	3	18	2.07
500 Social Services, N.E.C.	2	41	0.81
482 Miscellaneous Repair Shops	2	39	0.75
507 Accounting, Auditing and Bookkeeping	2	51	0.56
505 Religious Organizations	1	40	0.51
483 Motion Pictures	1	27	0.67
499 Child Day Care Services	1	10	1.79
474 Personnel Supply Services	1	17	0.92
509 Research, Development & Testing Service	1	21	0.74
466 Beauty and Barber Shops	1	24	0.61
467 Funeral Service and Crematories	1	14	1.05
473 Equipment Rental and Leasing	1	15	0.66
488 Amusement and Recreation Services, N.E	1	132	0.07

465 Portrait and Photographic Studios	1	7	1.05
503 Business Associations	1	10	0.74

***Retail SIC 52-59***

454 Eating & Drinking	16	293	0.78
451 Automotive Dealers & Service Stations	10	190	0.80
450 Food Stores	10	138	1.03
452 Apparel & Accessory Stores	7	94	1.16
455 Miscellaneous Retail	6	166	0.55
449 General Merchandise Stores	5	95	0.81
448 Building Materials & Gardening	3	61	0.76
453 Furniture & Home Furnishings Stores	1	32	0.61

**Hibbing as compared to  
Minnesota**

<b>Total - All Industries</b>	<b>853</b>	<b>263003</b>	
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***Mining (SIC 10-14)***

28 Iron Ores	198	1391	43.83
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***Manufacturing (SIC 20-39)***

378 Electronic Components, N.E.C.	51	689	22.97
191 Plastics Materials and Resins	21	113	56.78
259 Iron and Steel Foundries	17	203	26.52
59 Sausages and Other Prepared Meats	13	1001	4.09
219 Fabricated Rubber Products, N.E.C.	11	327	10.34
334 Blowers and Fans	8	249	10.07
284 Fabricated Plate Work (Boiler Shops)	6	266	7.42
389 Aircraft	6	25	74.70
280 Plumbing Fixture Fittings and Trim	5	17	96.84
376 Printed Circuit Boards	5	766	2.14
399 Transportation Equipment, N.E.C	5	908	1.57
133 Logging Camps and Logging Contractors	3	139	6.45

354 Industrial Machines N.E.C.	3	1121	0.80
294 Metal Stampings, N.E.C.	2	601	1.27
211 Paving Mixtures and Blocks	2	139	5.11
213 Lubricating Oils and Greases	2	75	7.67
174 Newspapers	2	891	0.64
313 Oil Field Machinery	1	3	115.80
198 Surface Active Agents	1	4	84.95
403 Mechanical Measuring Devices	1	1002	0.35
283 Metal Doors, Sash, and Trim	1	53	6.36
263 Secondary Nonferrous Metals	1	69	4.25
404 Instruments To Measure Electricity	1	144	2.00
337 Industrial Furnaces and Ovens	1	87	2.54
355 Transformers	1	59	3.58
220 Miscellaneous Plastics Products	1	2682	0.08
387 Truck Trailers	1	95	1.83

**Services (SIC 70-89)**

490 Doctors and Dentists	34	7025	1.51
492 Hospitals	23	3773	1.91
470 Other Business Services	12	2222	1.67
493 Other Medical and Health Services	12	1280	2.82
491 Nursing and Protective Care	10	1761	1.80
480 Electrical Repair Service	9	187	14.60
496 Colleges, Universities, Schools	7	888	2.54
479 Automobile Repair and Services	6	1602	1.13
464 Laundry, Cleaning and Shoe Repair	6	437	3.90
506 Engineering, Architectural Services	5	1566	1.06
463 Hotels and Lodging Places	5	1487	0.99
469 Advertising	5	694	2.08
504 Labor and Civic Organizations	5	511	2.75
494 Legal Services	4	2036	0.58
495 Elementary and Secondary Schools	3	473	1.63
500 Social Services, N.E.C.	2	898	0.78
482 Miscellaneous Repair Shops	2	549	1.11
507 Accounting, Auditing and Bookkeeping	2	1334	0.46
505 Religious Organizations	1	572	0.76

483 Motion Pictures	1	768	0.51
499 Child Day Care Services	1	315	1.17
474 Personnel Supply Services	1	1243	0.27
509 Research, Development & Testing Service	1	506	0.63
466 Beauty and Barber Shops	1	607	0.51
467 Funeral Service and Crematories	1	154	1.97
473 Equipment Rental and Leasing	1	379	0.56
488 Amusement and Recreation Services, N.E	1	1464	0.14
465 Portrait and Photographic Studios	1	179	0.90
503 Business Associations	1	238	0.65

**Retail (SIC 52-59)**

454 Eating & Drinking	16	5105	0.94
451 Automotive Dealers & Service Stations	10	3068	1.05
450 Food Stores	10	1867	1.61
452 Apparel & Accessory Stores	7	717	3.21
455 Miscellaneous Retail	6	3181	0.61
449 General Merchandise Stores	5	2360	0.69
448 Building Materials & Gardening	3	833	1.18
453 Furniture & Home Furnishings Stores	1	1117	0.37

## 1993 - 1996 Output Shift-Share Analysis

### 1) Hibbing vs NE Minnesota

### 2) Hibbing vs Minnesota

#### Hibbing as compared to Northeast Minnesota

	1993 NE MN	1996 NE MN	Sorted by:		Share	Mix	Competition	Change
			1993 Hibbing	1996 Hibbing				
<b>Total - All Industries</b>	<b>10331</b>	<b>12462</b>	<b>642</b>	<b>853</b>	<b>132.37</b>	<b>0.00</b>	<b>79.09</b>	<b>211.46</b>
<b><i>Mining (SIC 10-14)</i></b>								
28 Iron Ores	870	1391	119	198	24.56	46.80	7.35	78.71
<b><i>Manufacturing (SIC 20-39)</i></b>								
378 Electronic Components, N.E.C.	0	57	0	51	0.00	0.00	0.00	0.00
191 Plastics Materials and Resins	2	21	0	21	0.08	4.74	15.59	20.41
259 Iron and Steel Foundries	44	38	9	17	1.91	-3.16	9.46	8.21
59 Sausages and Other Prepared Meats	10	13	1	13	0.27	0.13	11.58	11.98
219 Fabricated Rubber Products, N.E.C.	9	16	9	11	1.81	4.88	-4.50	2.19
334 Blowers and Fans	4	8	4	8	0.75	3.78	0.00	4.53
284 Fabricated Plate Work (Boiler Shops)	1	6	0	6	0.02	0.95	5.33	6.31
389 Aircraft	0	15	0	6	0.00	0.00	0.00	0.00
280 Plumbing Fixture Fittings and Trim	0	14	0	5	0.00	0.00	0.00	0.00
376 Printed Circuit Boards	23	5	0	5	0.00	0.00	0.00	0.00
399 Transportation Equipment, N.E.C	2	25	0	5	0.00	0.00	0.00	0.00
133 Logging Camps and Logging Contractors	75	96	1	3	0.18	0.08	1.80	2.06
354 Industrial Machines N.E.C.	18	37	0	3	0.00	0.00	0.00	0.00
294 Metal Stampings, N.E.C.	4	4	3	2	0.57	-0.75	-0.14	-0.32
211 Paving Mixtures and Blocks	8	8	0	2	0.00	0.00	0.00	0.00
213 Lubricating Oils and Greases	0	7	0	2	0.00	0.00	0.00	0.00
174 Newspapers	38	48	2	2	0.41	0.16	-0.72	-0.15
313 Oil Field Machinery	0	3	0	1	0.02	3.34	-2.16	1.20
198 Surface Active Agents	4	4	1	1	0.31	-0.38	-0.24	-0.32

403 Mechanical Measuring Devices	0	2	0	1	0.00	0.00	0.00	0.00
283 Metal Doors, Sash, and Trim	7	2	7	1	1.44	-6.83	-0.47	-5.87
263 Secondary Nonferrous Metals	6	2	1	1	0.17	-0.66	0.64	0.15
404 Instruments To Measure Electricity	1	2	0	1	0.10	0.81	-0.45	0.46
337 Industrial Furnaces and Ovens	0	2	0	1	0.00	0.00	0.00	0.00
355 Transformers	0	2	0	1	0.00	0.00	0.00	0.00
220 Miscellaneous Plastics Products	8	12	5	1	1.06	1.30	-6.85	-4.49
387 Truck Trailers	1	1	0	1	0.00	0.00	0.00	0.00

**Services (SIC 70-89)**

490 Doctors and Dentists	323	530	29	34	5.91	12.43	-12.67	5.68
492 Hospitals	333	343	31	23	6.45	-5.52	-8.82	-7.88
470 Other Business Services	19	52	5	12	1.07	8.12	-2.38	6.82
493 Other Medical and Health Services	36	80	3	12	0.59	2.78	5.51	8.87
491 Nursing and Protective Care	69	97	8	10	1.64	1.55	-0.88	2.31
480 Electrical Repair Service	19	21	0	9	0.00	0.00	0.00	0.00
496 Colleges, Universities, Schools	27	39	0	7	0.03	0.04	7.09	7.16
479 Automobile Repair and Services	97	85	11	6	2.33	-3.79	-3.92	-5.39
464 Laundry, Cleaning and Shoe Repair	12	19	4	6	0.85	1.92	-1.36	1.40
506 Engineering, Architectural Services	47	47	10	5	2.06	-1.94	-4.74	-4.62
463 Hotels and Lodging Places	91	154	2	5	0.44	1.03	1.18	2.65
469 Advertising	10	14	4	5	0.89	0.87	-1.40	0.36
504 Labor and Civic Organizations	87	55	7	5	1.47	-4.07	0.02	-2.58
494 Legal Services	79	67	4	4	0.84	-1.49	0.40	-0.25
495 Elementary and Secondary Schools	7	18	1	3	0.25	1.46	-0.44	1.27
500 Social Services, N.E.C.	83	41	3	2	0.70	-2.40	0.59	-1.11
507 Accounting, Auditing and Bookkeeping	33	51	2	2	0.44	0.77	-1.35	-0.15
482 Miscellaneous Repair Shops	22	39	0	2	0.04	0.11	1.61	1.76
505 Religious Organizations	3	40	0	1	0.03	1.92	-0.69	1.26
483 Motion Pictures	30	27	2	1	0.46	-0.63	-0.78	-0.96
499 Child Day Care Services	2	10	0	1	0.03	0.54	0.45	1.03
474 Personnel Supply Services	16	17	2	1	0.38	-0.22	-0.93	-0.78
509 Research, Development & Testing Service	13	21	1	1	0.14	0.23	0.01	0.38
466 Beauty and Barber Shops	16	24	1	1	0.17	0.28	-0.29	0.17
467 Funeral Service and Crematories	11	14	1	1	0.21	0.02	-0.25	-0.02
473 Equipment Rental and Leasing	10	15	0	1	0.08	0.12	0.09	0.29

488 Amusement and Recreation Services, N.E	81	132	2	1	0.34	0.70	-2.05	-1.00
465 Portrait and Photographic Studios	6	7	1	1	0.12	0.05	-0.24	-0.07
503 Business Associations	17	10	1	1	0.17	-0.52	0.02	-0.33

**Retail (SIC 52-59)**

454 Eating & Drinking	239	293	14	16	2.81	0.26	-1.02	2.04
451 Automotive Dealers & Service Stations	142	190	9	10	1.94	1.29	-2.15	1.08
450 Food Stores	94	138	7	10	1.46	1.90	-0.70	2.67
452 Apparel & Accessory Stores	58	94	6	7	1.17	2.37	-1.78	1.76
455 Miscellaneous Retail	132	166	8	6	1.74	0.47	-4.33	-2.13
449 General Merchandise Stores	99	95	7	5	1.48	-1.75	-1.61	-1.88
448 Building Materials & Gardening	55	61	4	3	0.83	-0.40	-1.30	-0.87
453 Furniture & Home Furnishings Stores	30	32	1	1	0.22	-0.13	0.20	0.29

**Hibbing as compared to Minnesota**

<b>Total - All Industries</b>	<b>211198</b>	<b>263003</b>	<b>642</b>	<b>853</b>	<b>157.38</b>	<b>0.00</b>	<b>54.08</b>	<b>211.46</b>
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**Mining (SIC 10-14)**

28 Iron Ores	873	1391	119	198	29.20	41.49	8.01	78.71
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**Manufacturing (SIC 20-39)**

378 Electronic Components, N.E.C.	794	689	0	51	0.00	0.00	0.00	0.00
191 Plastics Materials and Resins	49	113	0	21	0.09	0.41	19.91	20.41
259 Iron and Steel Foundries	160	203	9	17	2.27	0.24	5.69	8.21
59 Sausages and Other Prepared Meats	725	1001	1	13	0.32	0.17	11.49	11.98
219 Fabricated Rubber Products, N.E.C.	243	327	9	11	2.15	0.88	-0.85	2.19
334 Blowers and Fans	167	249	4	8	0.89	0.91	2.73	4.53
284 Fabricated Plate Work (Boiler Shops)	180	266	0	6	0.02	0.02	6.26	6.31
389 Aircraft	4	25	0	6	0.00	0.00	0.00	0.00
280 Plumbing Fixture Fittings and Trim	26	17	0	5	0.00	0.00	0.00	0.00
376 Printed Circuit Boards	436	766	0	5	0.00	0.00	0.00	0.00
399 Transportation Equipment, N.E.C	557	908	0	5	0.00	0.00	0.00	0.00

133 Logging Camps and Logging Contractors	133	139	1	3	0.21	-0.17	2.02	2.06
354 Industrial Machines N.E.C.	782	1121	0	3	0.00	0.00	0.00	0.00
294 Metal Stampings, N.E.C.	400	601	3	2	0.68	0.71	-1.72	-0.32
211 Paving Mixtures and Blocks	100	139	0	2	0.00	0.00	0.00	0.00
213 Lubricating Oils and Greases	20	75	0	2	0.00	0.00	0.00	0.00
174 Newspapers	741	891	2	2	0.49	-0.08	-0.55	-0.15
313 Oil Field Machinery	0	3	0	1	0.02	3.34	-2.16	1.20
198 Surface Active Agents	4	4	1	1	0.36	-0.44	-0.24	-0.32
403 Mechanical Measuring Devices	692	1002	0	1	0.00	0.00	0.00	0.00
283 Metal Doors, Sash, and Trim	70	53	7	1	1.71	-3.35	-4.23	-5.87
263 Secondary Nonferrous Metals	142	69	1	1	0.20	-0.61	0.56	0.15
404 Instruments To Measure Electricity	84	144	0	1	0.12	0.22	0.13	0.46
337 Industrial Furnaces and Ovens	62	87	0	1	0.00	0.00	0.00	0.00
355 Transformers	38	59	0	1	0.00	0.00	0.00	0.00
220 Miscellaneous Plastics Products	1994	2682	5	1	1.26	0.51	-6.26	-4.49
387 Truck Trailers	67	95	0	1	0.00	0.00	0.00	0.00

**Services (SIC 70-89)**

490 Doctors and Dentists	5326	7025	29	34	7.03	2.12	-3.47	5.68
492 Hospitals	3622	3773	31	23	7.67	-6.36	-9.19	-7.88
470 Other Business Services	1370	2222	5	12	1.28	1.96	3.58	6.82
493 Other Medical and Health Services	768	1280	3	12	0.70	1.20	6.98	8.87
491 Nursing and Protective Care	1241	1761	8	10	1.95	1.38	-1.03	2.31
480 Electrical Repair Service	139	187	0	9	0.00	0.00	0.00	0.00
496 Colleges, Universities, Schools	852	888	0	7	0.04	-0.03	7.16	7.16
479 Automobile Repair and Services	1904	1602	11	6	2.76	-4.55	-3.61	-5.39
464 Laundry, Cleaning and Shoe Repair	270	437	4	6	1.01	1.53	-1.13	1.40
506 Engineering, Architectural Services	1049	1566	10	5	2.45	2.47	-9.54	-4.62
463 Hotels and Lodging Places	849	1487	2	5	0.52	1.08	1.04	2.65
469 Advertising	570	694	4	5	1.06	-0.13	-0.57	0.36
504 Labor and Civic Organizations	981	511	7	5	1.75	-5.17	0.84	-2.58
494 Legal Services	1988	2036	4	4	1.00	-0.90	-0.34	-0.24
495 Elementary and Secondary Schools	295	473	1	3	0.30	0.44	0.53	1.27
500 Social Services, N.E.C.	1103	898	3	2	0.83	-1.46	-0.47	-1.11
507 Accounting, Auditing and Bookkeeping	1005	1334	2	2	0.52	0.17	-0.84	-0.15
482 Miscellaneous Repair Shops	356	549	0	2	0.05	0.06	1.65	1.76

505 Religious Organizations	75	572	0	1	0.04	0.99	0.23	1.26
483 Motion Pictures	638	768	2	1	0.55	-0.09	-1.42	-0.96
499 Child Day Care Services	169	315	0	1	0.04	0.10	0.89	1.03
474 Personnel Supply Services	863	1243	2	1	0.45	0.36	-1.59	-0.78
509 Research, Development & Testing Service	295	506	1	1	0.16	0.31	-0.10	0.38
466 Beauty and Barber Shops	392	607	1	1	0.20	0.25	-0.29	0.17
467 Funeral Service and Crematories	138	154	1	1	0.25	-0.13	-0.14	-0.02
473 Equipment Rental and Leasing	249	379	0	1	0.10	0.11	0.08	0.29
488 Amusement and Recreation Services, N.E	961	1464	2	1	0.41	0.46	-1.87	-1.00
465 Portrait and Photographic Studios	189	179	1	1	0.14	-0.18	-0.03	-0.07
503 Business Associations	448	238	1	1	0.20	-0.59	0.06	-0.33

**Retail (SIC 52-59)**

454 Eating & Drinking	3899	5105	14	16	3.34	0.87	-2.17	2.04
451 Automotive Dealers & Service Stations	2134	3068	9	10	2.31	1.81	-3.03	1.08
450 Food Stores	1508	1867	7	10	1.73	-0.05	0.99	2.67
452 Apparel & Accessory Stores	637	717	6	7	1.40	-0.68	1.05	1.76
455 Miscellaneous Retail	2432	3181	8	6	2.07	0.53	-4.72	-2.13
449 General Merchandise Stores	1895	2360	7	5	1.76	0.00	-3.63	-1.88
448 Building Materials & Gardening	721	833	4	3	0.99	-0.36	-1.50	-0.87
453 Furniture & Home Furnishings Stores	752	1117	1	1	0.26	0.25	-0.23	0.29

# 1996 Value Added Location Quotient Analysis

## 1) Hibbing vs NE Minnesota

## 2) Hibbing vs Minnesota

### Hibbing as compared to Northeast Minnesota

	Sorted by:		
	Hibbing	NE MN	Location
	Value Added	Value Added	Quotient
<b>Total - All Industries</b>	<b>417</b>	<b>6907</b>	
<b><i>Mining SIC 10-14</i></b>			
28 Iron Ores	52	369	2.34
<b><i>Manufacturing SIC 20-39</i></b>			
378 Electronic Components, N.E.C.	9	10	15.01
259 Iron and Steel Foundries	8	18	7.54
191 Plastics Materials and Resins	4	4	16.58
284 Fabricated Plate Work (Boiler Shops)	4	4	16.58
219 Fabricated Rubber Products, N.E.C.	3	5	11.13
59 Sausages and Other Prepared Meats	3	3	16.58
280 Plumbing Fixture Fittings and Trim	3	7	6.37
334 Blowers and Fans	3	3	16.58
376 Printed Circuit Boards	2	2	16.58
389 Aircraft	2	5	6.37
354 Industrial Machines N.E.C.	1	16	1.20
294 Metal Stampings, N.E.C.	1	2	11.06
133 Logging Camps and Logging Contractors	1	39	0.49
211 Paving Mixtures and Blocks	1	4	4.57
174 Newspapers	1	25	0.68
399 Transportation Equipment, N.E.C	1	4	3.42
313 Oil Field Machinery	1	2	6.23
283 Metal Doors, Sash, and Trim	1	1	11.61

**Services SIC 70-89**

490 Doctors and Dentists	22	331	1.09
492 Hospitals	15	220	1.14
491 Nursing and Protective Care	7	63	1.78
470 Other Business Services	5	23	3.72
493 Other Medical and Health Services	5	34	2.36
496 Colleges, Universities, Schools	4	22	3.12
480 Electrical Repair Service	4	10	6.87
464 Laundry, Cleaning and Shoe Repair	4	13	4.78
504 Labor and Civic Organizations	3	35	1.37
479 Automobile Repair and Services	3	40	1.17
469 Advertising	3	8	5.96
506 Engineering, Architectural Services	2	22	1.91
463 Hotels and Lodging Places	2	75	0.52
494 Legal Services	2	31	0.96
507 Accounting, Auditing and Bookkeeping	2	45	0.64
500 Social Services, N.E.C.	1	22	0.93
474 Personnel Supply Services	1	16	1.05
482 Miscellaneous Repair Shops	1	18	0.87
495 Elementary and Secondary Schools	1	6	2.44
467 Funeral Service and Crematories	1	10	1.20
466 Beauty and Barber Shops	1	14	0.69
499 Child Day Care Services	1	4	2.14

**Retail (SIC 52-59)**

450 Food Stores	8	1598	1.80
451 Automotive Dealers & Service Stations	8	2328	1.18
454 Eating & Drinking	7	2498	1.00
455 Miscellaneous Retail	5	2665	0.69
452 Apparel & Accessory Stores	5	504	3.60
449 General Merchandise Stores	4	1771	0.78
448 Building Materials & Gardening	3	732	1.32
453 Furniture & Home Furnishings Stores	1	886	0.42

**Hibbing as compared to  
Minnesota**

<b>Total - All Industries</b>	<b>417</b>	<b>144180</b>	
<b><i>Mining (SIC 10-14)</i></b>			
28 Iron Ores	52	369	48.90
<b><i>Manufacturing (SIC 20-39)</i></b>			
378 Electronic Components, N.E.C.	9	159	18.86
259 Iron and Steel Foundries	8	90	30.68
191 Plastics Materials and Resins	4	25	61.34
284 Fabricated Plate Work (Boiler Shops)	4	171	8.14
219 Fabricated Rubber Products, N.E.C.	3	113	10.64
59 Sausages and Other Prepared Meats	3	241	4.67
280 Plumbing Fixture Fittings and Trim	3	9	107.35
334 Blowers and Fans	3	135	6.75
376 Printed Circuit Boards	2	413	1.92
389 Aircraft	2	7	84.49
354 Industrial Machines N.E.C.	1	530	0.77
294 Metal Stampings, N.E.C.	1	304	1.33
133 Logging Camps and Logging Contractors	1	56	7.25
211 Paving Mixtures and Blocks	1	60	5.95
174 Newspapers	1	467	0.76
399 Transportation Equipment, N.E.C	1	150	1.77
313 Oil Field Machinery	1	2	129.96
283 Metal Doors, Sash, and Trim	1	30	7.12
<b><i>Services (SIC 70-89)</i></b>			
490 Doctors and Dentists	22	4518	1.67
492 Hospitals	15	2475	2.13
491 Nursing and Protective Care	7	1144	2.04
470 Other Business Services	5	1165	1.55
493 Other Medical and Health Services	5	642	2.59
496 Colleges, Universities, Schools	4	518	2.80

480 Electrical Repair Service	4	85	16.82
464 Laundry, Cleaning and Shoe Repair	4	298	4.38
504 Labor and Civic Organizations	3	309	3.25
479 Automobile Repair and Services	3	795	1.22
469 Advertising	3	414	2.31
506 Engineering, Architectural Services	2	773	1.12
463 Hotels and Lodging Places	2	779	1.04
494 Legal Services	2	1019	0.62
507 Accounting, Auditing and Bookkeeping	2	1175	0.51
500 Social Services, N.E.C.	1	528	0.83
474 Personnel Supply Services	1	1152	0.30
482 Miscellaneous Repair Shops	1	248	1.34
495 Elementary and Secondary Schools	1	184	1.63
467 Funeral Service and Crematories	1	108	2.21
466 Beauty and Barber Shops	1	362	0.54
499 Child Day Care Services	1	138	1.27

**Retail (SIC 52-59)**

450 Food Stores	8	1598	1.80
451 Automotive Dealers & Service Stations	8	2328	1.18
454 Eating & Drinking	7	2498	1.00
455 Miscellaneous Retail	5	2665	0.69
452 Apparel & Accessory Stores	5	504	3.60
449 General Merchandise Stores	4	1771	0.78
448 Building Materials & Gardening	3	732	1.32
453 Furniture & Home Furnishings Stores	1	886	0.42

# 1993 - 1996 Value Added Shift-Share Analysis

## 1) Hibbing vs NE Minnesota

## 2) Hibbing vs Minnesota

### Hibbing as compared to Northeast Minnesota

IMPLAN Sector	1993 NE MN	1996 NE MN	Sorted by:		Share	Mix	Competition	Change
			1993 Hibbing	1996 Hibbing				
<b>Total - All Industries</b>	<b>6111</b>	<b>6907</b>	<b>406</b>	<b>417</b>	<b>53</b>	<b>0</b>	<b>-43</b>	<b>10</b>
<b>Mining (SIC 10-14)</b>								
28 Iron Ores	443	369	61	52	8	-18	1	-9
<b>Manufacturing (SIC 20-39)</b>								
378 Electronic Components, N.E.C.	0	10	0	9	0	0	0	0
259 Iron and Steel Foundries	24	18	5	8	1	-2	4	3
191 Plastics Materials and Resins	0	4	0	4	0	1	3	4
284 Fabricated Plate Work (Boiler Shops)	0	4	0	4	0	1	3	4
219 Fabricated Rubber Products, N.E.C.	3	5	3	3	0	1	-1	0
59 Sausages and Other Prepared Meats	3	3	0	3	0	0	3	3
280 Plumbing Fixture Fittings and Trim	0	7	0	3	0	0	0	0
334 Blowers and Fans	2	3	2	3	0	1	0	1
376 Printed Circuit Boards	12	2	0	2	0	0	0	0
389 Aircraft	0	5	0	2	0	0	0	0
354 Industrial Machines N.E.C.	10	16	0	1	0	0	0	0
294 Metal Stampings, N.E.C.	1	2	1	1	0	0	0	0
133 Logging Camps and Logging Contractors	21	39	0	1	0	0	1	1
211 Paving Mixtures and Blocks	3	4	0	1	0	0	0	0
174 Newspapers	26	25	1	1	0	0	0	0
399 Transportation Equipment, N.E.C	1	4	0	1	0	0	0	0
313 Oil Field Machinery	0	2	0	1	0	2	-1	1
283 Metal Doors, Sash, and Trim	3	1	3	1	0	-3	0	-3

**Services (SIC 70-89)**

490 Doctors and Dentists	263	331	23	22	3	3	-8	-1
492 Hospitals	194	220	18	15	2	0	-6	-3
491 Nursing and Protective Care	56	63	7	7	1	0	-1	0
470 Other Business Services	13	23	4	5	0	2	-1	2
493 Other Medical and Health Services	27	34	2	5	0	0	2	3
496 Colleges, Universities, Schools	13	22	0	4	0	0	4	4
480 Electrical Repair Service	13	10	0	4	0	0	0	0
464 Laundry, Cleaning and Shoe Repair	10	13	3	4	0	1	-1	0
504 Labor and Civic Organizations	41	35	3	3	0	-1	0	-1
479 Automobile Repair and Services	33	40	4	3	1	0	-2	-1
469 Advertising	8	8	3	3	0	0	-1	-1
506 Engineering, Architectural Services	27	22	6	2	1	-2	-2	-3
463 Hotels and Lodging Places	76	75	2	2	0	0	1	1
494 Legal Services	67	31	3	2	0	-2	0	-2
507 Accounting, Auditing and Bookkeeping	20	45	1	2	0	1	-1	0
500 Social Services, N.E.C.	29	22	1	1	0	0	0	0
474 Personnel Supply Services	14	16	2	1	0	0	-1	-1
482 Miscellaneous Repair Shops	15	18	0	1	0	0	1	1
495 Elementary and Secondary Schools	3	6	1	1	0	0	0	0
467 Funeral Service and Crematories	8	10	1	1	0	0	0	0
466 Beauty and Barber Shops	12	14	1	1	0	0	0	0
499 Child Day Care Services	2	4	0	1	0	0	0	0

**Retail (SIC 52-59)**

449 General Merchandise Stores	77	71	6	4	1	-1	-1	-2
455 Miscellaneous Retail	105	139	7	5	1	1	-4	-1
448 Building Materials & Gardening	47	54	3	3	0	0	-1	-1
453 Furniture & Home Furnishings Stores	23	25	1	1	0	0	0	0
451 Automotive Dealers & Service Stations	116	144	8	8	1	1	-2	0
454 Eating & Drinking	120	134	7	7	1	0	0	0
452 Apparel & Accessory Stores	41	66	4	5	1	2	-1	1
450 Food Stores	84	118	6	8	1	2	-1	2

**Hibbing as compared to  
Minnesota**

<b>Total - All Industries</b>	<b>117404</b>	<b>144180</b>	<b>406</b>	<b>417</b>	<b>93</b>	<b>0</b>	<b>-82</b>	<b>10</b>
<b><i>Mining (SIC10-14)</i></b>								
28 Iron Ores	444	369	61	52	14	-24	2	-9
<b><i>Manufacturing (SIC 20-39)</i></b>								
283 Electronic Components, N.E.C.	259	159	0	9	0	0	0	0
220 Iron and Steel Foundries	84	90	5	8	1	-1	3	3
206 Plastics Materials and Resins	14	25	0	4	0	0	4	4
331 Fabricated Plate Work (Boiler Shops)	100	171	0	4	0	0	4	4
282 Fabricated Rubber Products, N.E.C.	88	113	3	3	1	0	-1	0
174 Sausages and Other Prepared Meats	230	241	0	3	0	0	3	3
197 Plumbing Fixture Fittings and Trim	14	9	0	3	0	0	0	0
215 Blowers and Fans	96	135	2	3	0	0	0	1
217 Printed Circuit Boards	267	413	0	2	0	0	0	0
210 Aircraft	1	7	0	2	0	0	0	0
192 Industrial Machines N.E.C.	431	530	0	1	0	0	0	0
244 Metal Stampings, N.E.C.	170	304	1	1	0	1	-1	0
75 Logging Camps and Logging Contractors	35	56	0	1	0	0	1	1
162 Paving Mixtures and Blocks	36	60	0	1	0	0	0	0
412 Newspapers	518	467	1	1	0	0	0	0
209 Transportation Equipment, N.E.C	170	150	0	1	0	0	0	0
263 Oil Field Machinery	0	2	0	1	0	2	-1	1
288 Metal Doors, Sash, and Trim	34	30	3	1	1	-1	-2	-3
<b><i>Services (SIC 70-89)</i></b>								
490 Doctors and Dentists	4329	4518	23	22	5	-4	-2	-1
492 Hospitals	2154	2475	18	15	4	-1	-6	-3
491 Nursing and Protective Care	1014	1144	7	7	1	-1	-1	0
470 Other Business Services	966	1165	4	5	1	0	1	2
493 Other Medical and Health Services	568	642	2	5	0	0	2	3
496 Colleges, Universities, Schools	406	518	0	4	0	0	4	4

480 Electrical Repair Service	100	85	0	4	0	0	0	0
464 Laundry, Cleaning and Shoe Repair	224	298	3	4	1	0	-1	0
504 Labor and Civic Organizations	446	309	3	3	1	-2	0	-1
479 Automobile Repair and Services	704	795	4	3	1	0	-2	-1
469 Advertising	439	414	3	3	1	-1	0	-1
506 Engineering, Architectural Services	638	773	6	2	1	0	-5	-3
463 Hotels and Lodging Places	711	779	2	2	0	0	0	1
494 Legal Services	1690	1019	3	2	1	-2	0	-2
507 Accounting, Auditing and Bookkeeping	629	1175	1	2	0	1	-1	0
500 Social Services, N.E.C.	432	528	1	1	0	0	0	0
474 Personnel Supply Services	777	1152	2	1	0	0	-1	-1
482 Miscellaneous Repair Shops	243	248	0	1	0	0	1	1
495 Elementary and Secondary Schools	139	184	1	1	0	0	0	0
467 Funeral Service and Crematories	96	108	1	1	0	0	0	0
466 Beauty and Barber Shops	312	362	1	1	0	0	0	0
499 Child Day Care Services	150	138	0	1	0	0	0	0

**Retail (SIC52-59)**

450 Food Stores	1346	1598	6	8	1	0	1	2
451 Automotive Dealers & Service Stations	1740	2328	8	8	2	1	-2	0
454 Eating & Drinking	2061	2498	7	7	2	0	-1	0
455 Miscellaneous Retail	1950	2665	7	5	2	1	-4	-1
452 Apparel & Accessory Stores	444	504	4	5	1	0	1	1
449 General Merchandise Stores	1485	1771	6	4	1	0	-3	-2
448 Building Materials & Gardening	616	732	3	3	1	0	-1	-1
453 Furniture & Home Furnishings Stores	591	886	1	1	0	0	0	0