

Appendix 10E

Calpuff Modeling, Q/D And Visibility For Seney

For Seney, Illinois, Indiana, Iowa, Michigan, Missouri and Wisconsin have the majority of the 20% worst day; same as indicated by the PSAT analysis (see Figure 10.2.c).

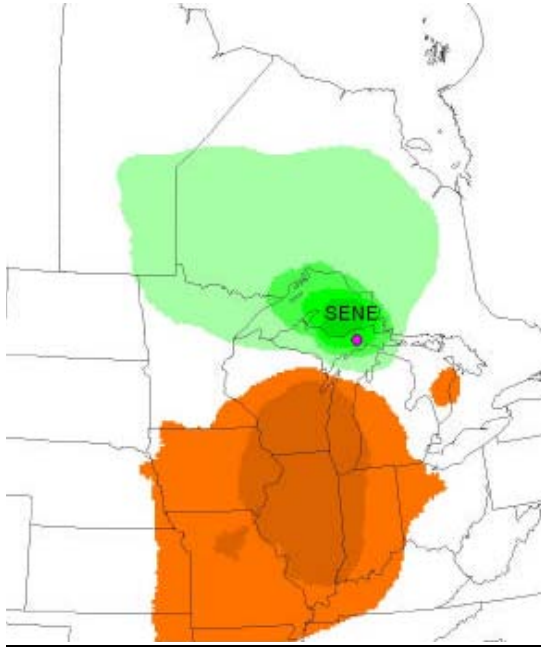


Figure 10.2.c: Composite back trajectories for Seney for the 20% worst days. Orange is where the air is most likely to come from and green is where it is least likely to come from.

Table 1. Calpuff modeling for Seney, includes only facilities located in the state of Michigan.

SENEY CLASS I AREA

FACILITY	SRN	1/(M-m)
WISCONSIN ELECTRIC POWER COMPANY	B4261	0.565
EMPIRE IRON MINING PARTNERSHIP	B1827	0.494
J. H. Campbell Plant	B2835	0.493
ESCANABA PAPER COMPANY	A0884	0.316
Karn - Weadock Facility	B2840	0.311
ST MARYS CEMENT INC	B1559	0.187
B. C. Cobb Plant	B2836	0.182
Tilden Mining Company L.C.	B4885	0.148
ESCANABA POWER PLANT	B1573	0.128
MANISTIQUE PAPERS INC	A6475	0.120
Neenah Paper - Michigan, Inc.	B1470	0.077
Eckert & Moores Park Station	B2647	0.075
Lafarge North America - Alpena Plant	B1477	0.068
ANR Pipeline Company - Bridgman Compressor Station	N5575	0.067
DETROIT EDISON/MONROE POWER	B2816	0.063
INTERNATIONAL PAPER CO	B7192	0.047
TES FILER CITY STATION	N1685	0.038
Packaging Corporation of America - Filer City Mill	B3692	0.038
Lansing Board of Water & Light, Erickson Station	B4001	0.037
Marquette Board of Light & Power	B1833	0.037
Holland BPW, Generating Station & WWTP	B2357	0.036
Martin Marietta Magnesia Specialties, LLC	A3900	0.035
Michigan State University	K3249	0.034
S. D. Warren, Muskegon, MI, Operations	A4203	0.030
ANR Pipeline Company - Hamilton Compressor Station	N5574	0.028
Midland Cogeneration Venture	B6527	0.026
Traverse City Light and Power Bayside Power Plant	B4257	0.024
DETROIT EDISON TRENTON CHANNEL	B2811	0.024
ST. CLAIR / BELLE RIVER POWER PLANT	B2796	0.024
Morton Salt Specialty Magnesia	B1824	0.024
General Chemical Industrial Products Inc.	B1821	0.023
Harbor Beach Power Plant	B2815	0.017
GREAT LAKES GAS TRANSMISSION STATION #8	N3760	0.017
FARWELL COMPRESSOR STATION NO 12	N5581	0.016
MENOMINEE PAPER COMPANY	B1855	0.016
STONE CONTAINER CORPORATION	A5754	0.016
DETROIT EDISON RIVER ROUGE	B2810	0.013
MERIT ENERGY CO. - Manistee Sulfur Plant	B6013	0.013
Michigan Sugar Company - Carrollton Factory	B2874	0.011
ANR Pipeline Co - Woolfolk Compressor Station	B7220	0.010
GREAT LAKES GAS TRANSMISSION STATION #9	N3759	0.010
J.R. WHITING CO	B2846	0.009
ANR-Coldsprings/ Blue Lake Gas Storage Company	B7198	0.009
Michigan Sugar Company - Sebewaing Factory	B2873	0.008
ANR Pipeline Company Lincoln Compressor Station	N5586	0.008

FACILITY	SRN	1/(M-m)
Michigan Sugar Company, Caro Factory	B2875	0.008
Delphi Saginaw Steering Systems, Holland Road	A6175	0.008
HOLCIM (US) INC.	B1743	0.007
U S STEEL GREAT LAKES WORKS	A7809	0.007
Pharmacia & Upjohn Co LLC, a subsidiary of Pfizer	B3610	0.007
J. B. Sims Generating Station	B1976	0.007
Reed City Compressor Station	B3721	0.006
Muskegon River Compressor Station	N2901	0.006
Louisiana-Pacific Corporation	N1315	0.005
Merit Energy Company. - Mayfield 23	B5587	0.005
DETROIT EDISON GREENWOOD ENERGY CENTER	B6145	0.005
TAGGART COMPRESSOR STATION	N3392	0.004
Viking Energy of McBain	N1160	0.004
CONSUMERS ENERGY COMPANY- WHITE PIGEON CO	N5573	0.004
GRAPHIC PACKAGING INTERNATIONAL, INC.	B1678	0.004
Merit Energy Co. - Brown 7	B5589	0.003
East Jordan Iron Works	A0767	0.003
Steelcase Inc. - Grand Rapids Complex	N0980	0.003
Decorative Panels International, Inc	B1476	0.003
MERIT ENERGY CO. - KALKASKA GAS PLANT	B4292	0.003
GREAT LAKES GAS TRANSMISSION STATION #7	N2168	0.003
Cadillac Renewable Energy Facility	N1395	0.003
Michigan Power Limited Partnership	N4975	0.003
MI SO CENTRAL POWER AGENCY	B6611	0.003
KINROSS CORRECTIONAL FACILITY	N2955	0.003
White Pigeon Paper Company	B2024	0.002
Hanson Brick - Michigan Plant	A6497	0.002
Pharmacia & Upjohn Company LLC	B4288	0.002
DEARBORN INDUSTRIAL GENERATION	N6631	0.002
Aztec Producing Company, Inc.	B7093	0.002
KINDER MORGAN CO	N6626	0.002
GENERAL MOTORS CORPORATION - ORION ASSEMBLY	B7227	0.002
GUARDIAN INDUSTRIES	B1877	0.002
CMS ANTRIM GAS L.L.C.	N2940	0.002
GM POWERTRAIN GROUP - SAGINAW METAL CASTING	B1991	0.002
Overisel Compressor Station	N5792	0.002
Great Lakes Gas Transmission Station #11	B8573	0.002
GREAT LAKES GAS TRANSMISSION STATION #10	N3758	0.002
GMC-MFD Grand Blanc Metal Fab Plant	B1610	0.002
HILLMAN POWER CO	N1266	0.002
GRAYLING GENERATING STATION LTD PTNR	N2388	0.001
Great Lakes Gas Transmission Station #13	N3818	0.001
MARATHON ASHLAND PETROLEUM	A9831	0.001
QUICKSILVER RESOURCES INC. - P-LEASE	N3190	0.001
GREAT LAKES TISSUE	B1563	0.001
General Motors Pontiac Site Operations	B4032	0.001
MERIT ENERGY CO. - OTSEGO LAKE 34	N0200	0.001
SUMMIT ESSEXVILLE INC	N0827	0.001

FACILITY	SRN	1/(M-m)
VIKING ENERGY OF LINCOLN, INC.	N0890	0.001
WYANDOTTE DEPT MUNI POWER	B2132	0.001
Kellogg USA Inc.	A0563	0.001
Michigan Sugar Company - Bay City	B1493	0.001
JAGUAR ENERGY, FREDERIC 15 GAS PLANT	B7222	0.001
The Dow Chemical Company U.S.A., Midland	A4033	0.001
Howell Compressor Station	N5572	0.001
Michigan Sugar Company, Crosswell Factory	B2876	0.001
General Motors Corporation - Van Slyke Complex	B1606	0.001
Ludlow Coated Products	B2013	0.001
ABBOTT LABORATORIES-ROSS PRODUCTS DIVISION	A6380	0.001
BELLE RIVER COMPRESSOR STATION	B6478	0.001
Kent County Waste to Energy Facility	N1604	0.001
MID MICHIGAN GAS STORAGE CO - CAPAC	B6481	0.001
Western Michigan University	K2131	0.001
ADA COGENERATION	N1784	0.001
GENESEE POWER STATION LIMITED PARTNERSHIP	N3570	0.001
QUANEX CORP MACSTEEL DIVISION	B4306	0.001
E.B. EDDY PAPER INC.	B6420	0.001
SEVERSTAL NORTH AMERICA, INC.	A8640	0.000
Central Michigan University	K2460	0.000
Menasha Packaging Company, LLC, Otsego Mill	A0023	0.000
UNIVERSITY OF MI	M0675	0.000
CARGILL SALT	A6240	0.000
MUSKEGON DEVELOPMENT--HEADQUARTERS OIL FIELD	N0924	0.000
DETROIT THERMAL BEACON HEATING PLANT	B2814	0.000
Hyperion Energy, Rich Field Gas Plant	B5462	0.000
ST. CLAIR COMPRESSOR STATION	B6637	0.000
GREATER DETROIT RESOURCE RECOVERY	M4148	0.000
DaimlerChrysler Technology Center	N1436	0.000
DETROIT DIESEL CORPORATION	A8638	0.000
FORD MOTOR CO/ WAYNE COMPLEX	A8650	0.000
DETROIT WASTEWATER TREATMENT PLANT	B2103	0.000
EQ-SITE #2	M4782	0.000
ONYX-ARBOR HILLS LANDFILL	N2688	0.000
FREEDOM COMPRESSOR STATION	N3920	0.000
CARMEUSE LIME/ RIVER ROUGE	B2169	0.000
CARMEUSE/DETROIT LIME	B3520	0.000
GENERAL MOTORS HAMTRAMCK	M4199	0.000
DETROIT PUBLIC LIGHTING	B2185	0.000
CENTRAL WAYNE ENERGY RECOVERY	B4281	0.000
IPMC AQUISITION LLC	A7051	0.000
GM Technical Center	B4049	0.000
FORD MOTOR CO ELM ST BOILERHOUSE	M4764	0.000

Table 2. Top 30 facilities contributing to decreased visibility at Seney, includes facilities in and out of state.

Area	Deciviews	State	County	Facility ID	Facility Name
SENE1	0.78837	MI	Ottawa	B2835	JH_Campbell
SENE1	0.50992	IL	Will	197809AAC	MidwestGen
SENE1	0.47144	WI	Sheboygan	460033090	WPL_Alliant
SENE1	0.40775	MI	St_Clair	B2796	BelleRiver
SENE1	0.34743	WI	Columbia	111003090	Alliant
SENE1	0.32325	IN	Spencer	20	IN_Mi_Power
SENE1	0.32295	MI	Monroe	B2816	Detroit_Ed
SENE1	0.30828	MI	Alpena	B1477	LaFarge
SENE1	0.29421	MN	Sherburne	2714100004	NSP
SENE1	0.29202	WI	Brown	405032870	FortJames
SENE1	0.27039	MI	Bay	B2840	Kam_Weadock
SENE1	0.22242	MI	Marquette	B4261	WI_Electric
SENE1	0.19289	WI	Outagamie	445031180	Intl_Paper
SENE1	0.18886	IN	Jefferson	1	IKEC
SENE1	0.14692	MN	Itasca	2706100004	MinnesotaPower_Bos
SENE1	0.11993	IN	Floyd	4	PSI_EnergyGallagher
SENE1	0.11411	ND	Mercer	11	NA
SENE1	0.10921	MI	Marquette	B4885	TildenMining
SENE1	0.10301	ND	McLean	17	NA
SENE1	0.10086	IL	Massac	127855AAC	ElectricEnergyInc
SENE1	0.09836	ND	Oliver	1	NA
SENE1	0.07361	ND	Mercer	4	NA
SENE1	0.06732	ND	Mercer	1	NA
SENE1	0.06681	MI	Marquette	B1827	EmpireIronMining
SENE1	0.06078	OH	Clemont	1413100008	Cinergy
SENE1	0.04868	MN	Cook	2703100001	MinnesotaPower_Tac
SENE1	0.02468	MN	StLouis	2713700005	US_Steel
SENE1	0.02044	MN	StLouis	2713700113	EVTAC_Mining
SENE1	0.01312	MN	StLouis	2713700063	KeewatinTaconite
SENE1	0.00874	MN	StLouis	2713700061	HibbingTaconite
SENE1	0.00535	MN	StLouis	2713700062	IspatinlandMining
sum = 6.1					

Table 3 2018 Q/d EGUs for Seney for facilities in and out of state.

Obs	Stat	State	Count	County	Facility ID	Facility Name	X grid	Y Grid	Min	Class	Q/d	Nox	Q/d	SO2	Nox	Nox	SO2	SO2
e ID	Name	y ID	Name						Dist	Area	for	Emissions	for	Emissions	Emis.	Q/d	Emis.	Q/d
								(km)			Nox	(tons/day)	SO2	(tons/day)	Rank	Rank	Rank	Rank
1	26	Mich	147	St_Clair	B2796	St. Clair / Belle	1175.59	406.81	473	SENE1	0.127	60.2	0.528	249.6	14	2	2	1
2	26	Mich	103	Marquette	B4261	Wisconsin Electric	736.05	769.94	115	SENE1	0.139	16	0.336	38.8	113	1	129	4
3	18	Indi	147	Spencer	20	Indiana Michigan P	868.79	-182.36	932	SENE1	0.063	59.1	0.208	193.9	15	6	4	8
4	55	Wisc	117	Sheboygan	460033090	Wp & L Alliant Ene	726.01	448.45	325	SENE1	0.060	19.5	0.203	66	89	8	58	10
5	17	Illi	197	Will	197809AAO	Midwest Generation	754.82	201.22	556	SENE1	0.051	28.3	0.202	112.2	52	12	16	11
6	26	Mich	115	Monroe	B2816	Detroit Edison/Mon	1122.4	293.92	531	SENE1	0.040	21.1	0.346	183.6	78	22	5	3
7	26	Mich	139	Ottawa	B2835	J. H. Campbell Pla	875.41	374.7	375	SENE1	0.040	14.9	0.428	160.7	127	23	6	2
8	27	Minn	141	Sherburne	2714100004	Nsp - Sherburne Ge	242.98	601.12	624	SENE1	0.087	54.3	0.117	73	20	4	45	26
9	13	Geor	207	Monroe	20700008	Georgia Power Comp	1227.24	-681.37	1480	SENE1	0.039	58.4	0.218	322.4	17	25	1	6
10	55	Wisc	11	Buffalo	606034110	Dairyland Power Co	412.92	490.06	508	SENE1	0.043	21.9	0.152	77.3	75	18	39	14
11	55	Wisc	21	Columbia	111003090	Alliant Energy-Col	604.68	417.45	412	SENE1	0.039	16	0.215	88.7	115	28	30	7
12	29	Miss	71	Franklin	3	Amerenue-Labadie P	533.09	-140.88	945	SENE1	0.037	34.7	0.232	218.7	43	34	3	5
13	55	Wisc	73	Marathon	737009020	Wis Public Service	581.37	565	325	SENE1	0.040	13	0.126	41	143	21	118	18
14	26	Mich	17	Bay	B2840	Karn - Weadock Fac	1053.98	480.5	338	SENE1	0.038	12.7	0.206	69.7	145	31	49	9
15	21	Kent	145	McCracken	2114500006	Tva-Environmental	725.03	-282.55	1039	SENE1	0.057	59.1	0.100	104.4	16	11	19	31
16	18	Indi	73	Jasper	8	Nipsco - R.M. Scha	829.67	180.7	569	SENE1	0.038	21.8	0.168	95.4	76	30	25	12
17	27	Minn	61	Itasca	2706100004	Minnesota Power In	250.45	815.4	603	SENE1	0.039	23.5	0.122	73.8	67	27	44	20
18	26	Mich	163	Wayne	B2810	Detroit Edison Riv	1134.99	338.82	500	SENE1	0.039	19.5	0.118	59.2	88	26	68	23
19	55	Wisc	9	Brown	405031990	Wi Public Service	711.56	538.78	252	SENE1	0.040	10.1	0.089	22.4	193	20	211	39
20	17	Illi	197	Will	197810AAK	Midwest Generation	739.33	216.94	543	SENE1	0.030	16.4	0.131	71.4	106	44	47	17
21	20	Kans	107	Linn	5	Kansas City Power	204.64	-180.37	1131	SENE1	0.102	114.9	0.067	75.7	2	3	41	60
22	26	Mich	163	Wayne	B2811	Detroit Edison Tre	1131.97	321.47	513	SENE1	0.030	15.1	0.156	80.1	124	51	36	13
23	31	Nebr	111	Lincoln	19	Nppd Gerald Gentle	-346.04	127.9	1347	SENE1	0.050	67.2	0.073	98.2	11	14	22	55
24	40	Okla	101	Muskogee	1209	Og&E	153.25	-468.02	1402	SENE1	0.045	63.4	0.069	96.8	12	17	24	58
25	55	Wisc	79	Milwaukee	241007800	Wis Electric Power	735.39	372.57	393	SENE1	0.030	11.8	0.101	39.9	163	47	122	30
26	29	Miss	183	St_Charles	1	Amerenue-Sioux Pla	577.43	-98.68	890	SENE1	0.026	23.5	0.122	108.5	66	62	17	21
27	5	Arka	63	Independen	506300042	Entergy Ark-Indepe	492.48	-457.61	1258	SENE1	0.040	50.8	0.065	81.9	23	19	34	65
28	10	Dela	5	Sussex	1000500001	Indian River Gener	1865.68	68.12	1223	SENE1	0.030	36.5	0.088	107.1	38	49	18	40
29	39	Ohio	113	Montgomery	857780013	Dp&L, O.H. Hutchin	1080.83	32.2	753	SENE1	0.027	20.1	0.099	74.6	84	61	42	32
30	54	West	79	Putnam	6	Appalachian Power	1309.75	-59.75	931	SENE1	0.029	26.9	0.087	81.2	57	53	35	42
31	40	Okla	131	Rogers	212	Public Svc Co Of O	116	-394.96	1359	SENE1	0.037	50.3	0.066	89.7	24	33	28	63
32	21	Kent	41	Carroll	2104100010	Kentucky Utilities	1030.26	-70.65	839	SENE1	0.024	20.2	0.108	90.6	83	71	26	27
33	18	Indi	89	Lake	117	Nipsco - Dean H. M	792.89	223.83	528	SENE1	0.025	13.4	0.097	51.2	138	65	88	33
34	21	Kent	177	Muhlenberg	2117700006	Tva Paradise Steam	881.29	-254.8	1004	SENE1	0.022	22.4	0.134	135	72	87	13	15
35	18	Indi	29	Dearborn	2	American Electric	1040.07	-31.95	804	SENE1	0.030	24.1	0.072	57.8	62	46	71	56
36	54	West	33	Harrison	15	Monongahela Power	1420.24	62.14	893	SENE1	0.032	28.7	0.062	55.1	51	38	79	70
37	26	Mich	121	Muskegon	B2836	B. C. Cobb Plant	867.65	412.1	338	SENE1	0.021	7.2	0.124	41.9	246	90	116	19
38	48	Texa	449	Titus	3	Monticello Stm Ele	183.02	-764.16	1654	SENE1	0.024	39.7	0.090	148.9	31	73	12	38
39	48	Texa	401	Rusk	11	Martin Lake Electr	228.94	-855.56	1720	SENE1	0.032	54.6	0.060	103.6	18	39	20	72
40	18	Indi	43	Floyd	4	Psi Energy - Galla	968.21	-132.21	889	SENE1	0.025	22.5	0.079	69.9	71	67	48	49
41	17	Illi	97	Lake	097190AAC	Midwest Generation	737.64	294.2	468	SENE1	0.023	10.8	0.095	44.3	176	83	109	35

Obs	Stat	State	Count	County	Facility ID	Facility Name	X grid	Y Grid	Min	Class	Q/d	Nox	Q/d	SO2	Nox	Nox	SO2	SO2
e ID	Name	ID	Name	Name					Dist	Area	for	Emissions	for	Emissions	Emis.	Q/d	Emis.	Q/d
											Nox	(tons/day)	SO2	(tons/day)	Rank	Rank	Rank	Rank
42	26	Mich	65	Ingham	B2647	Eckert & Moores Pa	1010.99	370.28	412	SENE1	0.027	11.1	0.067	27.6	173	60	181	59
43	22	Loui	77	Pointe_Cou	5	La Generating Llc/	541.11	-1012.94	1789	SENE1	0.023	41.6	0.087	156.2	29	80	7	41
44	38	Nort	57	Mercer	11	Antelope Valley	-366.36	829.12	1218	SENE1	0.029	34.8	0.064	77.9	42	54	37	67
45	19	Iowa	179	Wapello	90-07-001	lpl - Ottumwa Gene	370.37	130.73	782	SENE1	0.024	19.1	0.073	57.3	92	70	74	53
46	39	Ohio	81	Jefferson	641160017	W. H. Sammis Plant	1370.12	182.63	769	SENE1	0.047	36.4	0.046	35.3	39	16	143	107
47	20	Kans	149	Pottawatom	1	Westar Energy, Inc	76.41	-78.82	1133	SENE1	0.066	74.3	0.042	47.4	8	5	99	121
48	26	Mich	115	Monroe	B2846	J.R. Whiting Co	1115.57	281.92	538	SENE1	0.022	12	0.081	43.6	159	85	111	46
49	35	New	45	San_Juan	2	Four Corners	-1017.45	-302.17	2143	SENE1	0.060	127.9	0.040	86.5	1	9	31	123
50	38	Nort	65	Oliver	1	Milton R Young	-320.89	792.72	1171	SENE1	0.058	68.5	0.041	48.5	10	10	95	122
51	39	Ohio	85	Lake	243160009	Cleveland Electric	1279.13	291.75	628	SENE1	0.027	17	0.060	37.4	103	59	135	73
52	5	Arka	69	Jefferson	506900110	Entergy Ark-White	444.95	-604.3	1413	SENE1	0.020	27.8	0.095	134.8	53	102	14	34
53	17	Illi	179	Tazewell	179801AAA	Midwest Generation	623.59	83.59	703	SENE1	0.017	11.8	0.121	85.2	161	114	33	22
54	31	Nebr	55	Douglas	2	Omaha Public Power	87.56	147.4	971	SENE1	0.028	27.6	0.054	52.4	54	55	86	82
55	29	Miss	189	St_Louis	10	Amerenue-Meramec P	577.8	-155.79	945	SENE1	0.022	20.4	0.077	72.3	82	89	46	51
56	40	Okla	97	Mayes	799	Grand River Dam Au	152.96	-420.36	1361	SENE1	0.033	45.3	0.046	63.1	26	37	65	104
57	19	Iowa	115	Louisa	58-07-001	Midamerican Energy	491.15	161.82	688	SENE1	0.023	16	0.067	46	114	81	105	61
58	39	Ohio	31	Coshocton	616000000	Conesville Power P	1273.11	126.55	753	SENE1	0.021	15.9	0.076	57.5	116	91	72	52
59	29	Miss	175	Randolph	1	Associated Electri	372.28	-40.81	923	SENE1	0.024	22.2	0.059	54.2	73	72	81	75
60	46	Sout	51	Grant	1001	Big Stone	38.52	588.77	827	SENE1	0.051	41.9	0.037	31	27	13	158	135
61	1	Alab	127	Walker	1	Alabama Power Comp	905.95	-655.15	1405	SENE1	0.023	32.7	0.061	86	45	79	32	71
62	17	Illi	31	Cook	031600AIN	Midwest Generation	740.23	258.24	503	SENE1	0.020	10.1	0.078	39	194	100	128	50
63	19	Iowa	193	Woodbury	97-04-010	Midamerican Energy	50.9	257.79	938	SENE1	0.020	19.2	0.071	66.5	90	95	56	57
64	42	Penn	123	Warren	421230004	Reliant Energy Mid	1461.47	347.07	732	SENE1	0.018	13	0.087	63.5	142	110	64	43
65	18	Indi	167	Vigo	21	Psi Energy - Wabas	816.7	-9.44	759	SENE1	0.024	18	0.058	43.7	96	78	110	77
66	42	Penn	7	Beaver	420070005	Pa Power Co/Bruce	1385.78	197.02	770	SENE1	0.019	14.9	0.073	56.2	128	103	75	54
67	18	Indi	51	Gibson	13	Psi Energy - Gibso	800.1	-139.75	890	SENE1	0.024	21.1	0.056	49.7	79	77	91	80
68	31	Nebr	131	Otoe	36	Oppd Nebraska City	102.73	69.51	1010	SENE1	0.030	30.1	0.045	45	48	50	107	110
69	1	Alab	73	Jefferson	10730011	Alabama Power Comp	918.55	-655.58	1406	SENE1	0.015	20.8	0.108	151.2	80	134	10	28
70	18	Indi	77	Jefferson	1	Ikec - Clifty Cree	996.96	-75.84	838	SENE1	0.014	12	0.118	99.2	158	139	21	24
71	19	Iowa	155	Pottawatta	78-01-026	Midamerican Energy	96.67	131.21	974	SENE1	0.022	21.8	0.056	54.9	77	86	80	79
72	29	Miss	99	Jefferson	16	Amerenue-Rush Isla	585.2	-185.06	971	SENE1	0.015	14.6	0.093	90.2	130	130	27	36
73	30	Mont	87	Rosebud	14	Colstrip	-745.47	692.28	1596	SENE1	0.062	99.4	0.031	50.2	3	7	89	159
74	54	West	61	Monongalia	1	Monongahela Power	1447.46	102.18	881	SENE1	0.040	35	0.036	31.3	40	24	157	145
75	39	Ohio	1	Adams	701000007	Dp&L, J.M. Stuart	1146.62	-66.91	868	SENE1	0.018	15.9	0.065	56.1	117	107	76	66
76	17	Illi	137	Morgan	137805AAA	Ameren Energy Gene	573.75	-11.93	809	SENE1	0.018	14.5	0.063	51.2	131	109	87	68
77	47	Tenn	161	Stewart	11	Tva Cumberland Fos	832.73	-356.9	1106	SENE1	0.016	17.5	0.067	74	101	121	43	62
78	55	Wisc	79	Milwaukee	241007690	Wis Electric Power	744.78	352.32	410	SENE1	0.020	8.2	0.053	21.8	228	99	213	84
79	39	Ohio	61	Hamilton	1431350093	Cinergy Corp Miami	1044.54	-28.04	801	SENE1	0.020	16.1	0.052	41.9	109	98	115	89
80	40	Okla	103	Noble	1211	Og&E	-4.49	-392.21	1425	SENE1	0.026	37.4	0.039	55.6	35	63	78	127
81	13	Geor	15	Bartow	1500011	Georgia Power Comp	1107.98	-577.91	1352	SENE1	0.020	27.5	0.050	67.5	55	96	54	95
82	19	Iowa	5	Allamakee	03-03-001	lpl - Lansing Gene	470.71	385.08	525	SENE1	0.019	9.8	0.053	27.6	198	105	180	88
83	35	New	45	San_Juan	902	San Juan	-1003.78	-291.61	2125	SENE1	0.036	77.5	0.031	66.3	7	35	57	161

Obs	Stat	State	Count	County	Facility ID	Facility Name	X grid	Y Grid	Min	Class	Q/d	Nox	Q/d	SO2	Nox	Nox	SO2	SO2
e ID	Name	ID	Name	Name					Dist	Area	for	Emissions	for	Emissions	Emis.	Q/d	Emis.	Q/d
											Nox	(tons/day)	SO2	(tons/day)	Rank	Rank	Rank	Rank
84	56	Wyom	37	Sweetwater	1002	Jim Bridger	-972.43	254.8	1888	SENE1	0.048	90.1	0.027	50	4	15	90	181
85	17	Illi	79	Jasper	079808AAA	Ameren Energy Gene	757.13	-86.21	840	SENE1	0.021	17.5	0.047	39.1	100	94	126	103
86	18	Indi	125	Pike	2	Ipl Petersburg Gen	842.68	-117.98	867	SENE1	0.013	11.5	0.079	68.3	167	150	52	48
87	17	Illi	21	Christian	021814AAB	Kincaid Generation	640.02	-18.93	796	SENE1	0.013	10.4	0.081	64.8	183	154	62	45
88	48	Texa	161	Freestone	2	Big Brown	89.59	-907.29	1822	SENE1	0.013	23.6	0.083	151.3	64	156	9	44
89	29	Miss	83	Henry	1	Kansas City Power	266.4	-182.27	1099	SENE1	0.017	18.2	0.053	58.2	95	115	70	85
90	12	Flor	17	Citrus	170004	Progress Energy FI	1400.33	-1117.57	1946	SENE1	0.015	29.8	0.059	114.4	50	128	15	74
91	38	Nort	57	Mercer	1	Leland Olds	-333.88	817.63	1185	SENE1	0.038	45.6	0.028	33.2	25	29	152	176
92	27	Minn	31	Cook	2703100001	Minnesota Power -	456.12	868.74	411	SENE1	0.019	7.7	0.047	19.3	237	104	230	101
93	21	Kent	111	Jefferson	127	Lou Gas & Elec, Mi	964.53	-156.68	913	SENE1	0.011	10	0.107	97.3	196	178	23	29
94	54	West	51	Marshall	5	Ohio Power - Mitch	1369.32	103.48	829	SENE1	0.015	12.3	0.059	48.6	153	133	94	76
95	26	Mich	103	Marquette	B1833	Marquette Board Of	736.83	764.5	114	SENE1	0.020	2.2	0.045	5.1	476	101	398	109
96	38	Nort	55	McLean	17	Coal Creek	-314.98	827.45	1167	SENE1	0.013	15.6	0.065	76.1	120	148	40	64
97	39	Ohio	13	Belmont	607130015	R. E. Burger Plant	1371.93	112.83	823	SENE1	0.024	19.6	0.037	30.1	87	75	166	139
98	17	Illi	127	Massac	127855AAC	Electric Energy In	730.42	-276.69	1033	SENE1	0.015	15.1	0.057	58.7	126	137	69	78
99	1	Alab	71	Jackson	8	Tva - Widows Creek	1021.51	-503.21	1264	SENE1	0.010	13.2	0.118	149.4	140	191	11	25
100	39	Ohio	53	Gallia	627010056	Gavin Power Plant	1276.05	-13.25	874	SENE1	0.020	17.8	0.043	37.5	99	97	133	119
101	26	Mich	41	Delta	ORIS900426	Generic Unit	778.82	701.52	85	SENE1	0.030	2.6	0.025	2.2	429	45	474	193
102	18	Indi	91	La_Porte	21	Michigan City	833.07	236.91	512	SENE1	0.009	4.8	0.091	46.5	323	208	100	37
103	47	Tenn	85	Humphreys	11	Tva Johnsonville F	807.5	-400.68	1151	SENE1	0.008	9.2	0.133	153.1	207	230	8	16
104	32	Neva	3	Clark	P001	Mohave	-1586.4	-385.32	2687	SENE1	0.030	80.3	0.024	64.2	6	48	63	204
105	37	Nort	35	Catawba	3703500073	Duke Energy Corpor	1439.23	-361.13	1257	SENE1	0.030	38.2	0.014	17	32	43	247	282
106	38	Nort	57	Mercer	12	Coyote	-365.63	812.34	1217	SENE1	0.031	38	0.013	15.6	33	41	261	288
107	56	Wyom	31	Platte	1	Laramie River	-646.48	261.76	1573	SENE1	0.034	53.2	0.012	18.4	21	36	238	304
108	55	Wisc	123	Vernon	663020930	Dairyland Power Co	499.22	413.37	485	SENE1	0.005	2.4	0.081	39.2	461	313	124	47
109	4	Ariz	5	Coconino	4	Navajo	-1269.44	-242	2339	SENE1	0.037	86.8	0.006	13.2	5	32	286	383
110	47	Tenn	165	Sumner	25	Tva Gallatin Fossi	944.61	-353.49	1107	SENE1	0.031	34.8	0.006	6.5	41	40	372	380
111	42	Penn	63	Indiana	420630002	Seward	1505.09	194.39	859	SENE1	0.031	26.8	0.000	0	58	42	555	555

Table 4. 2018 Q/d for non-EGUs for Seneq in and out of state.

Obs	State ID	State Name	County ID	County Name	Facility ID	Facility Name	X grid	Y Grid	Min Dist (km)	Class Area	Q/d for Nox	Nox Emis (tons/day)	Q/d for SO2	SO2 Emis (tons/day)	Nox Emis. Rank	Nox Q/d Rank	SO2 Emis. Rank	SO2 Q/d Rank
1	26	Mich	7	Alpena	B1477	Lafarge North Amer	1064.8	642.46	240	SENE1	0.11307	27.2	0.2575	61.9	9	2	10	1
2	26	Mich	29	Charlevoix	B1559	Cemex, Inc.	913.95	648.93	119	SENE1	0.09562	11.4	0.0974	11.6	71	4	142	4
3	26	Mich	41	Delta	A0884	Escanaba Paper Com	768.76	686.2	102	SENE1	0.10491	10.7	0.0757	7.7	81	3	235	7
4	18	Indi	127	Porter	1	Bethlehem Steel Co	816.81	225.57	525	SENE1	0.04705	24.7	0.0914	47.9	12	8	18	5
5	55	Wisc	9	Brown	405032870	Fort James Operati	711.36	532.24	257	SENE1	0.04395	11.3	0.134	34.5	73	10	32	3
6	26	Mich	103	Marquette	B4885	Tilden Mining Comp	717.88	752.31	132	SENE1	0.14853	19.5	0.0531	7	21	1	254	18
7	18	Indi	79	Jennings	2	Muscatatuck State	983.64	-43.09	804	SENE1	0.04191	33.7	0.0659	53	4	11	12	12
8	55	Wisc	87	Outagamie	445031180	International Pape	694.55	508.2	286	SENE1	0.02004	5.7	0.0748	21.4	250	24	66	9
9	36	New	1	Albany	4012400001	Lafarge Building M	1875.6	517.3	1052	SENE1	0.0177	18.6	0.07	73.6	27	30	7	11
10	17	Illi	31	Cook	031012ABI	Corn Products Inte	757.27	234.85	522	SENE1	0.01952	10.2	0.0539	28.2	95	26	45	17
11	18	Indi	89	Lake	121	U S Steel Co Gary	800.33	221.74	530	SENE1	0.03144	16.7	0.0393	20.8	37	14	70	31
12	29	Miss	163	Pike	1	Holcim (Us) Inc-CI	517.79	-51.92	867	SENE1	0.02502	21.7	0.0439	38.1	16	20	28	26
13	26	Mich	153	Schoolcraf	A6475	Manistique Papers	831.18	711.84	42	SENE1	0.01603	0.7	0.0609	2.5	2000	37	474	14
14	35	New	43	Sandoval	350430005	Rio Rancho Facilit	-873.64	-482.1	2118	SENE1	0.01579	33.4	0.049	103.7	5	38	3	21
15	55	Wisc	69	Lincoln	735008010	Packaging Corporat	556.13	626.3	318	SENE1	0.01522	4.8	0.059	18.8	333	44	75	15
16	47	Tenn	163	Sullivan	3	Eastman Chemical C	1282.4	-283.13	1119	SENE1	0.01368	15.3	0.0576	64.5	42	59	9	16
17	19	Iowa	33	Cerro_Gord	17-01-005	Lehigh Cement Comp	306.72	359.46	668	SENE1	0.01472	9.8	0.0441	29.4	98	51	41	25
18	19	Iowa	33	Cerro_Gord	17-01-009	Holcim (Us) Inc. -	307.38	358.1	668	SENE1	0.01784	11.9	0.0243	16.3	60	28	92	49
19	48	Texa	331	Milam	1	Alcoa Sandow Plant	-6.64	-1048.6	1991	SENE1	0.01147	22.8	0.0707	140.8	15	71	2	10
20	55	Wisc	141	Wood	772009480	Stora Enso No. Ame	572.9	514.1	363	SENE1	0.01478	5.4	0.0388	14.1	284	50	114	32
21	19	Iowa	45	Clinton	23-01-006	Adm Corn Processin	559.9	222.35	601	SENE1	0.02147	12.9	0.0224	13.5	54	22	118	60
22	21	Kent	19	Boyd	2101900004	Marathon Ashland P	1245.1	-80.57	919	SENE1	0.0154	14.2	0.0249	22.9	48	41	58	47
23	39	Ohio	141	Ross	671010028	Mw Custom Papers L	1196.5	14.78	812	SENE1	0.01001	8.1	0.0646	52.5	135	87	13	13
24	26	Mich	163	Wayne	A7809	National Steel Cor	1135.1	339.67	499	SENE1	0.01923	9.6	0.0194	9.7	105	27	178	74
25	26	Mich	3	Alger	B1470	Kimberly-Clark Mic	795.45	757.13	55	SENE1	0.01171	0.6	0.0332	1.8	2000	68	558	36
26	18	Indi	89	Lake	316	Ispat Inland Inc.	789.68	225.78	527	SENE1	0.02872	15.1	0.0162	8.5	44	16	209	92
27	19	Iowa	163	Scott	82-04-005	Lafarge North Amer	522.89	179.92	656	SENE1	0.01142	7.5	0.0321	21.1	158	72	68	37
28	17	Illi	179	Tazewell	179060ACR	Williams Ethanol S	616.71	86.4	702	SENE1	0.01003	7	0.0443	31.1	177	86	37	24
29	47	Tenn	107	McMinn	12	Bowater Newsprint	1106	-447.1	1223	SENE1	0.01335	16.3	0.0237	29	39	60	43	50

Obs	State ID	State Name	County ID	County Name	Facility ID	Facility Name	X grid	Y Grid	Min Dist	Class Area	Q/d for Nox	Nox Emis (tons/day)	Q/d for SO2	SO2 Emis (tons/day)	Nox Emis. Rank	Nox Q/d Rank	SO2 Emis. Rank	SO2 Q/d Rank
30	55	Wisc	75	Marinette	438039360	Stora Enso No. Ame	699.42	675.24	167	SENE1	0.01123	1.9	0.03	5	817	73	318	40
31	31	Nebr	25	Cass	2	Ash Grove Cement C	70.4	111.58	1007	SENE1	0.01522	15.3	0.0198	19.9	41	43	71	71
32	55	Wisc	85	Oneida	744008100	Rhineland Paper	590.04	650.4	278	SENE1	0.01431	4	0.0215	6	415	53	285	63
33	19	Iowa	113	Linn	57-01-080	Adm Corn Processin	437.9	226	666	SENE1	0.01406	9.4	0.0217	14.4	111	55	109	62
34	48	Texa	245	Jefferson	18	Beaumont Refinery	284	-1098.2	1932	SENE1	0.01055	20.4	0.0269	51.9	19	78	14	45
35	22	Loui	19	Calcasieu	16	Citgo Petroleum Co	354.5	-1083.4	1898	SENE1	0.01382	26.2	0.0202	38.4	11	58	27	67
36	17	Illi	197	Will	197090AAI	Citgo Petroleum Co	739.52	218.57	542	SENE1	0.01054	5.7	0.0263	14.3	253	79	112	46
37	27	Minn	37	Dakota	2703700011	Flint Hills Resour	313.1	536.07	577	SENE1	0.01554	9	0.0174	10	120	39	173	86
38	17	Illi	143	Peoria	143065AJE	Archer Daniels Mid	620.28	100.05	688	SENE1	0.01177	8.1	0.022	15.1	137	66	101	61
39	36	New	55	Monroe	8261400205	Kodak Park Divisio	1554.2	520.79	741	SENE1	0.00731	5.4	0.0832	61.7	278	125	11	6
40	29	Miss	186	Ste_Genevi	1	Mississippi Lime C	604.82	-201.25	981	SENE1	0.01074	10.5	0.0233	22.9	85	77	57	55
41	26	Mich	115	Monroe	B1743	Holcim (Us) Inc.	1095.2	301.31	511	SENE1	0.00797	4.1	0.0521	26.6	401	115	48	20
42	37	Nort	87	Haywood	3708700159	Blue Ridge Paper P	1273	-395.75	1221	SENE1	0.0124	15.1	0.0196	24	43	64	54	72
43	17	Illi	197	Will	197800AAA	Exxonmobil Oil Cor	731.72	191.95	569	SENE1	0.01151	6.6	0.0204	11.6	202	70	140	66
44	55	Wisc	141	Wood	772010690	Domtar A. W. Corp-	564.3	500.64	378	SENE1	0.00948	3.6	0.0275	10.4	459	94	168	43
45	51	Virg	580	Covington_	3	Meadwestvaco Packa	1479.4	-104.98	1061	SENE1	0.00783	8.3	0.0454	48.2	131	117	17	22
46	26	Mich	103	Marquette	B1827	Empire Iron Mining	721.86	753.57	128	SENE1	0.08138	10.4	0.0107	1.4	89	5	652	137
47	26	Mich	131	Ontonagon	A5754	Stone Container Co	585.66	788.16	267	SENE1	0.01042	2.8	0.0209	5.6	590	81	295	64
48	22	Loui	101	St_Mary	5	Columbian Chem Co/	539.96	-1130.4	1905	SENE1	0.00881	16.8	0.0247	47	36	104	22	48
49	27	Minn	137	St_Louis	2713700005	Us Steel Corp - Mi	329.2	844.37	529	SENE1	0.07638	40.4	0.0101	5.3	1	6	307	150
50	18	Indi	93	Lawrence	2	Lehigh Cement Comp	908.36	-87.24	838	SENE1	0.01411	11.8	0.0143	12	64	54	134	107
51	27	Minn	137	St_Louis	2713700113	Evtac Mining - Fai	332.38	817.67	522	SENE1	0.01005	5.2	0.0187	9.8	291	85	175	76
52	38	Nort	57	Mercer	65	Great Plains Synfu	-366.4	822.14	1218	SENE1	0.01024	12.5	0.0178	21.7	55	84	65	81
53	55	Wisc	9	Brown	405032210	Procter & Gamble P	712.19	536.92	253	SENE1	0.00874	2.2	0.0209	5.3	724	105	309	65
54	24	Mary	5	Baltimore	005-0147	Bethlehem Steel	1745	111.32	1099	SENE1	0.01178	13	0.0135	14.8	51	65	104	110
55	39	Ohio	3	Allen	302020012	Premcor Refining G	1077.3	156.38	635	SENE1	0.00971	6.2	0.0172	10.9	220	88	154	88
56	36	New	39	Greene	4192600021	St Lawrence Cement	1877.1	479.42	1062	SENE1	0.01033	11	0.0156	16.6	74	82	89	96
57	18	Indi	89	Lake	3	Bp Products North	786.62	226.25	527	SENE1	0.02961	15.6	0.0088	4.6	40	15	337	166
58	54	West	51	Marshall	2	Ppg Industries, In	1368.8	92.13	837	SENE1	0.00628	5.3	0.0413	34.6	288	156	31	27
59	17	Illi	119	Madison	119813AAI	National Steel Cor	593.44	-122.12	908	SENE1	0.01103	10	0.0126	11.5	97	74	146	116

Obs	State ID	State Name	County ID	County Name	Facility ID	Facility Name	X grid	Y Grid	Min Dist	Class Area	Q/d for Nox	Nox Emis (tons/day)	Q/d for SO2	SO2 Emis (tons/day)	Nox Emis. Rank	Nox Q/d Rank	SO2 Emis. Rank	SO2 Q/d Rank
60	24	Mary	1	Allegany	001-0011	Westvaco Fine Pape	1523.4	92.53	941	SENE1	0.00572	5.4	0.0526	49.5	281	186	15	19
61	26	Mich	121	Muskegon	A4203	S. D. Warren, Musk	863.45	407.17	342	SENE1	0.01257	4.3	0.01	3.4	382	63	410	151
62	55	Wisc	141	Wood	772010140	Stora Enso No. Ame	569.27	510.68	368	SENE1	0.01451	5.3	0.0088	3.3	286	52	422	165
63	39	Ohio	17	Butler	1409010006	Ak Steel Corporati	1074.3	17.69	765	SENE1	0.00801	6.1	0.0127	9.7	223	113	176	115
64	48	Texa	201	Harris	39	Deer Park Plant	181.22	-1140.9	2005	SENE1	0.0094	18.8	0.011	21.9	26	96	64	134
65	54	West	3	Berkeley	6	Capitol Cement Cor	1615.5	106.66	1000	SENE1	0.0116	11.6	0.009	9	67	69	196	162
66	17	Illi	99	La_Salle	099816AAF	Lone Star Industri	660.86	171.62	608	SENE1	0.00628	3.8	0.0178	10.8	427	158	156	83
67	18	Indi	17	Cass	5	Essroc Cement Corp	886.86	133.3	617	SENE1	0.00768	4.7	0.0114	7	341	120	253	130
68	51	Virg	23	Botetourt	3	Roanoke Cement Com	1486.1	-140.6	1094	SENE1	0.00772	8.4	0.0109	11.9	129	119	135	135
69	47	Tenn	163	Sullivan	22	Willamette Industr	1280.3	-281.22	1117	SENE1	0.00741	8.3	0.0113	12.6	132	124	129	131
70	48	Texa	167	Galveston	1	Texas City Refiner	202.52	-1179	2034	SENE1	0.00959	19.5	0.0088	17.8	22	90	77	167
71	48	Texa	139	Ellis	22	Holcim (Texas) Lp	2.71	-830.73	1792	SENE1	0.01077	19.3	0.0081	14.6	24	76	107	182
72	45	Sout	75	Orangeburg	1860-0005	Holcim:Holly Hill	1533.3	-599.62	1512	SENE1	0.00721	10.9	0.0114	17.2	77	131	83	129
73	18	Indi	19	Clark	8	Essroc Cement Corp	973.34	-115.29	873	SENE1	0.00614	5.4	0.0146	12.7	285	165	128	102
74	28	Miss	59	Jackson	2805900058	Chevron Products C	805.08	-1022.4	1772	SENE1	0.00728	12.9	0.0105	18.6	53	128	76	140
75	48	Texa	233	Hutchinson	15	Borger Refinery	-393.25	-467.47	1739	SENE1	0.00522	9.1	0.0225	39.1	117	210	26	59
76	37	Nort	117	Martin	3711700069	Weyerhaeuser Compa	1802.1	-257.21	1386	SENE1	0.00948	13.1	0.0082	11.3	50	95	151	180
77	17	Illi	115	Macon	115015AAE	Archer Daniels Mid	688.52	16.11	750	SENE1	0.01511	11.3	0.0062	4.6	72	45	331	235
78	19	Iowa	139	Muscatine	70-01-004	Grain Processing C	493.3	171.15	679	SENE1	0.00453	3.1	0.0411	27.9	539	256	47	28
79	55	Wisc	87	Outagamie	445030960	Stora Enso No. Ame	688.7	507.13	291	SENE1	0.00564	1.6	0.0158	4.6	911	191	339	94
80	54	West	51	Marshall	11	Venco Moundsville	1369.3	103.48	829	SENE1	0.0046	3.8	0.0317	26.2	426	248	49	38
81	28	Miss	87	Lowndes	2808700025	Holnam Inc, Artesi	776.03	-700.15	1451	SENE1	0.0073	10.6	0.009	13.1	84	126	124	161
82	18	Indi	129	Posey	2	Ge Plastics Mt. Ve	792.71	-187.85	939	SENE1	0.00689	6.5	0.0098	9.2	209	138	189	155
83	42	Penn	95	Northampto	420950006	Hercules Cement Co	1805.9	300.02	1057	SENE1	0.0067	7.1	0.0097	10.2	176	142	171	156
84	1	Alab	103	Morgan	10	Solutia, Inc	909.72	-543.84	1294	SENE1	0.00503	6.5	0.0178	23.1	205	217	56	82
85	17	Illi	119	Madison	119090AAA	Toscopetro Corp	597.73	-106.12	892	SENE1	0.00949	8.5	0.0071	6.3	127	93	275	210
86	42	Penn	73	Lawrence	420730024	Cemex Inc/Wampum C	1388.7	225.03	752	SENE1	0.00578	4.3	0.0124	9.3	377	185	188	120
87	48	Texa	139	Ellis	2	North Texas Cement	-0.39	-829.74	1793	SENE1	0.0061	10.9	0.0105	18.9	75	168	74	139
88	26	Mich	65	Ingham	K3249	Michigan State Uni	1016.9	371.28	413	SENE1	0.0048	2	0.0195	8.1	784	237	223	73
89	51	Virg	101	King_Willi	1	Stone Container Co	1758.9	-76.26	1228	SENE1	0.00592	7.3	0.0108	13.2	168	178	119	136

Obs	State ID	State Name	County ID	County Name	Facility ID	Facility Name	X grid	Y Grid	Min Dist	Class I Area	Q/d for Nox	Nox Emis (tons/day)	Q/d for SO2	SO2 Emis (tons/day)	Nox Emis. Rank	Nox Q/d Rank	SO2 Emis. Rank	SO2 Q/d Rank
90	42	Penn	95	Northampto	420950012	Keystone Portland	1796	293.91	1050	SENE1	0.00622	6.5	0.0091	9.6	203	162	182	160
91	5	Arka	3	Ashley	500300013	Georgia-Pacific Co	483.48	-742.27	1536	SENE1	0.0071	10.9	0.0077	11.7	78	134	137	191
92	55	Wisc	73	Marathon	737009570	Mosinee Paper Corp	576.5	554.53	335	SENE1	0.00559	1.9	0.011	3.7	821	194	392	133
93	47	Tenn	65	Hamilton	3070	Signal Mountain Ce	1055.4	-474.82	1241	SENE1	0.00855	10.6	0.0064	8	83	107	226	226
94	27	Minn	137	St_Louis	2713700063	Keewatin Taconite	341.99	853.46	518	SENE1	0.03748	19.4	0.0044	2.3	23	12	499	322
95	42	Penn	47	Elk	420470005	Weyerhaeuser/Johns	1510.5	317.92	789	SENE1	0.00488	3.9	0.0145	11.5	423	232	147	105
96	51	Virg	93	Isle_of_Wi	6	International Pape	1770.6	-171.35	1302	SENE1	0.00433	5.6	0.0201	26.2	259	270	50	69
97	18	Indi	89	Lake	318	Isg Indiana Harbor	788.82	225.39	527	SENE1	0.01281	6.8	0.0051	2.7	189	62	466	277
98	42	Penn	95	Northampto	420950127	Essroc/Nazareth Ce	1802.7	297.77	1055	SENE1	0.00556	5.9	0.0104	11	242	199	153	142
99	17	Illi	31	Cook	ORD	O'hare Airport	748.32	256.51	503	SENE1	0.06204	31.2	0.0042	2.1	7	7	522	334
100	48	Texa	245	Jefferson	4	Port Arthur Refine	295.78	-1122.4	1952	SENE1	0.00774	15.1	0.0062	12.2	45	118	131	231
101	54	West	73	Pleasants	6	Cabot Corporation-	1333.6	40.93	858	SENE1	0.00384	3.3	0.0348	29.8	494	316	40	34
102	42	Penn	73	Lawrence	420730026	Essroc/Bessemer	1373.2	233	735	SENE1	0.01675	12.3	0.0044	3.2	58	33	423	318
103	51	Virg	670	Hopewell_C	26	Honeywell Nylon In	1724.5	-110.82	1227	SENE1	0.0285	35	0.004	4.9	3	17	325	346
104	22	Loui	89	St_Charles	79	Shell Chemical Lp/	639.64	-1087.8	1849	SENE1	0.02	37	0.0037	6.8	2	25	264	364
105	22	Loui	19	Calcasieu	69	Venco/Lake Charles	354.38	-1087.5	1902	SENE1	0.00341	6.5	0.0394	74.9	208	370	6	30
106	27	Minn	137	St_Louis	2713700061	Hibbing Taconite C	312.33	829.93	543	SENE1	0.03345	18.2	0.0032	1.7	30	13	573	389
107	26	Mich	43	Dickinson	B7192	International Pape	701.73	678.23	164	SENE1	0.02807	4.6	0.0029	0.5	356	18	1000	411
108	46	Sout	103	Pennington	28.1121-02	Gcc Dacotah	-500.27	470.86	1378	SENE1	0.01507	20.8	0.0033	4.5	18	46	347	384
109	29	Miss	99	Jefferson	2	Rc Cement Company	577.69	-182.41	970	SENE1	0.01488	14.4	0.0023	2.3	46	49	498	447
110	42	Penn	39	Crawford	420390012	Ppg Ind Inc/Works	1384.9	297.94	700	SENE1	0.01674	11.7	0.002	1.4	66	34	639	485
111	42	Penn	41	Cumberland	420410013	Ppg Ind Inc/Works	1665.8	196.8	986	SENE1	0.01735	17.1	0.0015	1.5	33	32	614	567
112	27	Minn	53	Hennepin	27053XMSP	Minneapolis-St Pau	298.25	547.7	587	SENE1	0.01506	8.8	0.0015	0.9	122	47	825	585
113	27	Minn	137	St_Louis	2713700062	Ispat Inland Minin	344.47	852.92	516	SENE1	0.02763	14.2	0.0013	0.7	47	19	924	626
114	22	Loui	39	Evangeline	1	Cabot Corporation/	456.09	-1015.5	1808	SENE1	0.00174	3.1	0.0273	49.4	519	745	16	44
115	22	Loui	47	Iberville	8	Dow Chemical Co/La	557.14	-1058.1	1831	SENE1	0.01499	27.4	0.0007	1.3	8	48	660	850
116	17	Illi	197	Will	197803AAK	Chicago Carbon Co	740.81	220.67	540	SENE1	0.00117	0.6	0.0304	16.4	2000	1000	91	39
117	22	Loui	33	East_Baton	21	Great Lakes Carbon	554.41	-1028.3	1802	SENE1	0.00092	1.7	0.0452	81.4	905	1000	5	23
118	1	Alab	53	Escambia	7	Exxonmobil Product	920.59	-943.87	1695	SENE1	0.00056	0.9	0.0282	47.8	1000	2000	20	41
119	47	Tenn	163	Sullivan	7	Seaman Corporation	1314.2	-273.47	1123	SENE1	0.01782	20	0.0001	0.1	20	29	2000	2000

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120	21	Kent	91	Hancock	2109100004	Century Aluminum O	890.34	-177.37	927	SENE1	0.00044	0.4	0.0344	31.9	2000	2000	34	35
121	39	Ohio	3	Allen	302020015	Bp Chemicals, Inc.	1076.8	155.42	636	SENE1	0.01535	9.8	8E-05	0.1	100	42	3000	2000
122	28	Miss	67	Jones	2806700010	Transcontinental G	753	-875.43	1627	SENE1	0.01639	26.7	8E-05	0.1	10	36	2000	2000
123	29	Miss	93	Iron	8	Doe Run Company-Gl	554.08	-259.61	1051	SENE1	0.00026	0.3	0.1874	196.9	3000	3000	1	2
124	48	Texa	39	Brazoria	41	Plant B	157.03	-1224	2091	SENE1	0.01545	32.3	1E-05	0	6	40	4000	4000
125	26	Mich	97	Mackinac	N3758	Great Lakes Gas Tr	891.29	735.74	44	SENE1	0.02466	1.1	1E-05	0	1000	21	10000	5000
126	51	Virg	11	Appomattox	11	Transco Station 17	1587.1	-134.93	1151	SENE1	0.01639	18.9	1E-05	0	25	35	5000	5000
127	26	Mich	9	Antrim	B7198	Anr-Coldsprings/ B	946.7	599.21	179	SENE1	0.01762	3.1	0	0	518	31	9000	5000
128	29	Miss	99	Jefferson	3	Doe Run Company-He	575.2	-171.7	961	SENE1	0.00008	0.1	0.075	72	6000	6000	8	8
129	26	Mich	35	Clare	N5581	Farwell Compressor	962.06	500.82	273	SENE1	0.021	5.7	0	0	251	23	8000	6000
130	17	Illi	31	Cook	031600AMC	Ltv Steel Co	780.85	227.97	526	SENE1	0.04441	23.3	0	0	14	9	10000	10000
131	28	Miss	121	Rankin	2812100036	Pursue Energy Corp	662.47	-843.93	1604	SENE1	0.00001	0	0.0279	44.7	10000	10000	24	42
132	4	Ariz	7	Gila	40072435	Asarco - Ray Compl	-1271	-590.46	2508	SENE1	.	.	0.037	92.7	30000	30000	4	33
133	18	Indi	89	Lake	383	Cokenergy Inc.	791.75	227.82	524	SENE1	.	.	0.0406	21.3	30000	60000	67	29