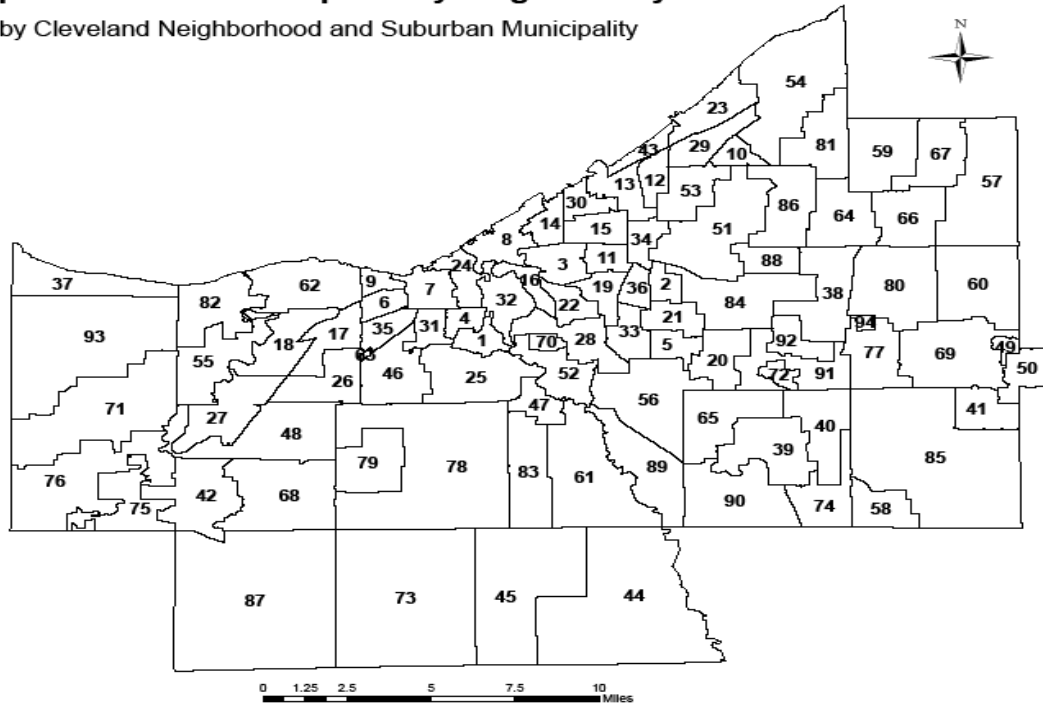## Appendix I: Indexed Map of Cuyahoga County
by Cleveland Neighborhood and Suburban Municipality

City of Cleveland Neighborhoods

1 = Brooklyn Center	13 = Glenville	25 = Old Brooklyn
2 = Buckeye-Shaker	14 = Goodrich-Kirtland Park	26 = Puritas-Longmead
3 = Central	15 = Hough	27 = Riverside
4 = Clark-Fulton	16 = Industrial Valley	28 = South Broadway
5 = Corlett	17 = Jefferson	29 = South Collinwood
6 = Cudell	18 = Kamms Corners	30 = St. Clair-Superior
7 = Detroit-Shoreway/Near West Side	19 = Kinsman	31 = Stockyards
8 = Downtown	20 = Lee-Miles	32 = Tremont
9 = Edgewater	21 = Mt. Pleasant	33 = Union-Miles
10 = Euclid-Green	22 = North Broadway	34 = University
11 = Fairfax	23 = North Collinwood	35 = West Boulevard
12 = Forest Hills	24 = Ohio City/Near West Side	36 = Woodland Hills

Suburban Municipalities

37 = Bay Village	57 = Gates Mills	77 = Orange
38 = Beachwood	58 = Glenwillow	78 = Parma
39 = Bedford	59 = Highland Heights	79 = Parma Heights
40 = Bedford Heights	60 = Hunting Valley	80 = Pepper Pike
41 = Bentleyville	61 = Independence	81 = Richmond Heights
42 = Berea	62 = Lakewood	82 = Rocky River
43 = Bratenahl	63 = Linndale	83 = Seven Hills
44 = Brecksville	64 = Lyndhurst	84 = Shaker Heights
45 = Broadview Heights	65 = Maple Heights	85 = Solon
46 = Brooklyn	66 = Mayfield Heights	86 = South Euclid
47 = Brooklyn Heights	67 = Mayfield Village	87 = Strongsville
48 = Brookpark	68 = Middleburg Heights	88 = University Heights
49 = Chagrin Falls Township	69 = Moreland Hills	89 = Valley View
50 = Chagrin Falls Village	70 = Newburgh Heights	90 = Walton Hills
51 = Cleveland Heights	71 = North Olmsted	91 = Warrensville Heights
52 = Cuyahoga Heights	72 = North Randall	92 = Highland Hills
53 = East Cleveland	73 = North Royalton	93 = Westlake
54 = Euclid	74 = Oakwood	94 = Woodmere
55 = Fairview Park	75 = Olmsted Falls	
56 = Garfield Heights	76 = Olmsted Township	

Appendix II

Peer Comparison Groups:

Four factors were taken into account in creating the peer groups. These four factors were: the median income, the average poverty rate, the percentage of population that was black, and the percentage of the population that was under 18 for each neighborhood/ municipality. The information on these factors at the neighborhood/ municipality level were obtained from the *Cleveland Area Network for Data & Organizing (CAN DO)* at the Center on Urban Poverty and Social Change at Case Western Reserve University's Mandel School of Applied Social Sciences. These data were downloaded into a Microsoft Excel table and imported into SPSS v12.0 for creation of the peer groups.

SPSS was used to assign a decile rank to each of the factors for each neighborhood/ municipality. Ties were assigned to the higher rank. Once the rankings were done, a Two Step Cluster Analysis was performed based upon the four decile ranks. Log-likelihood was the distance measure and the number of groups was specified to be eight. Although arbitrary, eight was specified in attempt to create a feasible and manageable number of peer groups given that there are 94 neighborhoods and municipalities in Cuyahoga County. Deciles were used in order to reduce the variability and assure that the number of cities in each peer group was not extremely different. Data was sorted by median income, average poverty rate, percent black, and percent less than 18 in order to force the importance of these variables in the grouping. The neighborhoods and/or municipalities within each peer group were divided into quartiles to create the **peer group rank**. Ties were assigned to the higher quartile rank. This created standard ranks that enabled comparisons across peer groups.

The following tables provide details for each Peer Comparison Group.

Peer Group Number 1:

Municipality/Neighborhood	Pop Count	% Black	% Pop < 18	Poverty Rate	Median Income
Central	12,107	93	41	65	$8,657
Kinsman	5,842	97	44	57	$12,093
Hough	16,359	97	31	41	$13,305
University	9,469	31	9	42	$14,725
Fairfax	7,352	97	29	33	$16,549
Woodland Hills	11,574	97	36	43	$17,081
Goodrich –Kirtland Park	4,295	18	22	30	$17,703
St.Clair-Superior	11,410	77	37	41	$18,362
Ohio City	9,308	27	27	38	$20,340
East Cleveland	27,217	94	30	32	$20,542
Stockyards	8,616	11	34	35	$21,057
Detroit-Shoreway	17,382	19	31	36	$21,138
North Broadway	9,049	40	35	37	$21,140
Glenville	23,559	98	33	31	$21,471
Tremont	8,163	20	29	38	$21,496
Union-Miles	15,464	96	34	32	$22,324
Forest Hills	15,723	98	32	30	$23,122
Group 1 Averages	12,523	65	31	39	$18300

Peer Group Number 2:

Municipality/Neighborhood	Pop Count	% Black	% Pop < 18	Poverty Rate	Median Income
Linndale	117	22	25	16	$21,500
Downtown	5,960	56	5	35	$26,161
North Collinwood	19,828	54	25	18	$27,082
Corlett	15,384	98	30	19	$27,649
Edgewater	8,571	16	16	18	$28,156
North Randall	906	73	16	11	$28,235
Euclid-Green	6,413	91	29	23	$29,225
West Boulevard	17,317	10	30	19	$31,627
Highland Hills	1,618	66	26	23	$31,731
Woodmere	828	50	21	11	$32,102
Industrial Valley	1,116	49	14	29	$33,826
Puritas-Longmead	15,200	24	26	14	$35,046
Euclid	52,717	31	22	10	$35,151
Riverside	4,982	25	31	17	$40,391
Group 2 Averages	10,783	48	23	19	$30,563

Peer Group Number 3:

Municipality/Neighborhood	Pop Count	% Black	% Pop < 18	Poverty Rate	Median Income
South Collinwood	14,392	76	33	28	$23,737
Clark-Fulton	13,363	11	34	29	$24,807
Buckeye-Shaker	16,063	81	25	27	$25,283
Mt.Pleasant	23,197	98	31	25	$25,430
South Broadway	21,475	20	29	23	$26,090
Brooklyn Center	9,180	13	31	25	$26,437
Cudell	10,761	15	32	29	$27,439
Group 3 Averages	15,490	45	31	27	$25,603

Peer Group Number 4:

Municipality/Neighborhood	Pop Count	% Black	% Pop < 18	Poverty Rate	Median Income
Brooklyn	11,586	2	19	7	$36,046
Bedford	14,214	18	20	8	$36,943
Parma Heights	21,659	1	19	8	$36,985
Mayfield Heights	19,386	3	16	6	$37,236
Bedford Heights	11,375	68	22	8	$37,861
Oakwood	3,667	57	21	6	$39,404
Maple Heights	26,156	45	26	6	$40,414
Cuyahoga Heights	599	0	22	6	$40,625
Kamms Corners	19,545	2	21	6	$44,529
Berea	18,970	5	21	6	$45,699
University Heights	14,146	21	21	6	$61,635
Walton Hills	2,400	2	17	2	$62,321
Shaker Heights	29,405	35	26	7	$63,983
Group 4 Averages	14,854	20	21	6	$44,899

Peer Group Number 5:

Municipality/Neighborhood	Pop Count	% Black	% Pop < 18	Poverty Rate	Median Income
Richmond Heights	10,944	24	20	5	$43,625
Parma	85,655	1	22	5	$43,920
Brooklyn Heights	1,558	1	25	2	$47,847
Middleburg Heights	15,542	1	18	3	$47,893
Olmsted Township	10,575	1	22	3	$48,061
South Euclid	23,537	22	25	5	$48,346
Fairview Park	17,572	1	22	4	$50,487
Rocky River	20,735	0	21	2	$51,636
Seven Hills	12,080	0	18	3	$54,413
Broadview Heights	15,967	1	25	3	$56,989
Chagrin Falls Village	4,024	0	22	4	$64,531
Mayfield Village	3,435	1	21	3	$66,048
Bay Village	16,087	0	26	3	$70,397
Group 5 Averages	18,285	4	22	3	$53,399

Peer Group Number 6:

Municipality/Neighborhood	Pop Count	% Black	% Pop < 18	Poverty Rate	Median Income
Old Brooklyn	34,169	3	22	11	$35,204
Lee-Miles	15,866	98	23	11	$36,234
Jefferson	19,949	8	24	10	$36,484
Warrensville Heights	15,109	91	26	11	$37,204
Newburgh Heights	2,389	3	22	12	$37,409
Glenwillow	449	5	22	5	$37,708
Garfield Heights	30,734	17	24	9	$39,278
Lakewood	56,646	2	21	9	$40,527
Brook Park	21,218	2	23	5	$46,333
Cleveland Heights	49,958	42	24	11	$46,731
Group 6 Averages	24,649	27	23	9	$39,311

Peer Group Number 7:

Municipality/Neighborhood	Pop Count	% Black	% Pop < 18	Poverty Rate	Median Income
Lyndhurst	15,279	1	20	2	$52,272
North Olmsted	34,113	1	24	4	$52,542
North Royalton	28,648	1	24	2	$57,398
Independence	7,109	1	24	4	$57,733
Olmsted Falls	7,962	1	27	2	$57,826
Westlake	31,719	1	23	2	$64,963
Strongsville	43,858	1	26	2	$68,660
Highland Heights	8,082	1	27	4	$69,750
Gates Mills	2,493	1	24	1	$133,605
Bentleyville	947	1	36	1	$160,902
Group 7 Averages	18,021	1	26	2	$77,565

Peer Group Number 8:

Municipality/Neighborhood	Pop Count	% Black	% Pop < 18	Poverty Rate	Median Income
Valley View	2,179	0	24	3	$64,063
Beachwood	12,186	9	20	4	$65,406
Bratenahl	1,337	12	11	4	$76,028
Brecksville	13,382	2	24	3	$76,159
Solon	21,802	6	31	3	$78,903
Orange	3,236	13	29	4	$89,660
Moreland Hills	3,298	3	23	3	$113,977
Pepper Pike	6,040	5	24	4	$133,316
Chagrin Falls Township	135	0	33	0	$188,774
Hunting Valley	590	0	22	2	$200,001
Group 8 Averages	6,419	5	24	3	$108,629

Appendix III

Cancer Site and Histology Codes and Cancer Site Mortality Codes[1]

Cancer Site/Type	ICD-O-3 Site and Histology Code(s)[2]	ICD-10 Mortality Code(s)[3]
All Cancer Sites/Types	C000-C809	C000-C979
Bladder	C670-C679	C670-C679
Brain and Other Central Nervous System	C700-C729	C700-C729
Breast	C500-C509	C500-C509
Cervix	C530-C539	C530-C539
Colon and Rectum	C180-189;C199;C209;C260	C180-C209; C260
Corpus Uterus	C540-C549; C559	
Esophagus	C150-159	C150-C159
Hodgkin's Lymphoma	Histologies 9650-9667	C810-C819
Kidney and Renal Pelvis	C649;C659	C640-C659
Larynx	C320-329	C320-C329
Leukemia	Histologies 9733; 9742; 9800; 9801; 9805; 9820; 9823 (sites C420, C421 and C424); 9826; 9827 (sites C420, C421 and C424); 9831; 9832-9834; 9835-9837; 9840; 9860; 9861; 9863; 9866; 9867; 9870; 9871-9874; 9875; 9876; 9891; 9895-9897; 9910; 9920; 9930; 9931;	C901;C910-C959
Liver and Intrahepatic Bile Duct	C220-C221	C220-C229
Lung and Bronchus	C340-349	C340-C349
Melanoma of the Skin	C440-449 (Histologies 8720-8790)	C430-C439
Multiple Myeloma	Histologies 9731-9732; 9734	C900; C902
Non-Hodgkin's Lymphoma	Histologies 9590-9596; 9670-9671; 9673; 9675; 9678; 9680; 9684; 9687; 9689-9691; 9695; 9698-9702; 9705; 9708-9709; 9714-9719; 9727-9729; 9823 (excluding sites C420, C421 and C424); 9827(excluding sites C420, C421 and C424)	C820-C829; C830-C839; C840-C849; C850-C859; C963
Oral Cavity and Pharynx	C000-C009;C019-C029;C079-C089;C040-C049;C030-C039;C050-C059;C060-C069;C110-C119;C090-C099;C100-C109;C130-C139;C140-C142;C148	C000-C149
Ovary	C569	C560-C569
Pancreas	C250-C259	C250-C259
Prostate	C619	C610-C619
Stomach	C160-C169	C160-C169
Testis	C620-C629	C620-C629
Thyroid	C739	C730-C739

[1]Source: Cancer Incidence and Mortality among Ohio Residents, 2002-2006. Ohio Cancer Incidence Surveillance System, Ohio Department of Health and The Ohio State University, Columbus, Ohio, December 2009.
[2]International Classification of Disease for Oncology, Third Edition (ICD-O-3)
[3]International Statistical Classification of Disease and Related Health Problems, 10th Edition (ICD-10)