

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 |