

SUPPLEMENTAL FILE 2Descriptive statistics of z-score means by neighborhood cluster type ^a, pooled cities & CARDIA Exam Years 0-25

	Exam Year 0	Exam Year 10	Exam Year 15	Exam Year 25	Exam Years 0-25
LOW CONNECTIVITY/AMENITIES					
CLUSTER [545 (23.2%)]					
Total park area (km ²) ^b	1.19 (1.69)	1.08 (1.43)	1.05 (1.41)	1.14 (1.43)	1.11 (1.49)
Intersection density ^c	-0.24 (0.79)	-0.25 (0.82)	-0.27 (0.83)	-0.29 (0.76)	-0.28 (0.79)
Links (count) ^d	1.81 (1.09)	1.81 (1.19)	1.81 (1.17)	-0.45 (0.51)	1.39 (1.40)
Cul-de-sacs (count)	0.83 (1.14)	0.78 (1.13)	0.78 (1.15)	-0.26 (0.75)	0.59 (1.16)
Beta index ^e	-0.27 (0.52)	-0.30 (0.55)	-0.31 (0.54)	-0.36 (0.50)	-0.29 (0.51)
Total road length (km)	2.05 (1.09)	2.03 (1.21)	2.05 (1.18)	2.02 (1.35)	2.07 (1.18)
Percentage residential ^f	0.06 (0.66)	0.15 (0.62)	0.15 (0.64)	0.17 (0.68)	0.12 (0.65)
Distance to nearest employment sub-center ^g	0.12 (0.82)	0.21 (0.83)	0.65 (0.73)	0.70 (0.69)	0.32 (0.84)
PA facilities ^h	-0.27 (0.44)	-0.32 (0.31)	-0.38 (0.20)	-0.36 (0.21)	-0.32 (0.33)
Fast food restaurants (chain) ^h	0.19 (0.67)	-0.25 (0.23)	-0.25 (0.27)	-0.21 (0.35)	-0.05 (0.50)
Full-service restaurants ^h	-0.08 (0.26)	-0.34 (0.19)	-0.39 (0.19)	-0.31 (0.21)	-0.25 (0.27)
Convenience stores ^h	-0.23 (0.38)	-0.26 (0.31)	-0.33 (0.29)	-0.25 (0.39)	-0.22 (0.38)
Supermarkets ^h	0.29 (0.55)	-0.18 (0.23)	-0.49 (0.37)	-0.29 (0.24)	-0.13 (0.51)
Co-ops ^h	-0.26 (0.22)	-0.07 (0.27)	-0.26 (0.27)	-0.35 (0.27)	-0.26 (0.35)
AVERAGE CONNECTIVITY/AMENITIES					
CLUSTER [n=409 (17.4%)]					
Total park area (km ²) ^b	-0.33 (0.39)	-0.34 (0.34)	-0.33 (0.39)	-0.30 (0.41)	-0.32 (0.39)
Intersection density ^c	0.26 (0.57)	0.36 (0.63)	0.33 (0.62)	0.15 (0.66)	0.28 (0.60)
Links (count) ^d	-0.06 (0.71)	-0.08 (0.69)	-0.09 (0.67)	-0.02 (0.53)	-0.06 (0.67)
Cul-de-sacs (count)	-0.38 (0.63)	-0.42 (0.54)	-0.40 (0.53)	-0.36 (0.76)	-0.39 (0.62)
Beta index ^e	0.09 (0.68)	0.05 (0.70)	0.05 (0.72)	-0.02 (0.68)	0.05 (0.70)
Total road length (km)	-0.08 (0.69)	-0.12 (0.66)	-0.12 (0.65)	-0.14 (0.64)	-0.09 (0.69)
Percentage residential ^f	0.23 (0.68)	0.26 (0.68)	0.24 (0.70)	0.29 (0.69)	0.26 (0.68)
Distance to nearest employment sub-center ^g	-0.20 (0.83)	-0.12 (0.85)	0.08 (0.88)	0.03 (0.85)	-0.08 (0.84)

PA facilities ^h	-0.03 (0.79)	-0.05 (0.53)	-0.12 (0.45)	-0.16 (0.40)	-0.06 (0.62)
Fast food restaurants (chain) ^h	-0.10 (0.78)	-0.10 (0.69)	-0.12 (0.61)	-0.17 (0.53)	-0.09 (0.70)
Full-service restaurants ^h	-0.11 (0.27)	-0.24 (0.39)	-0.20 (0.44)	-0.20 (0.42)	-0.17 (0.38)
Convenience stores ^h	0.14 (0.98)	0.07 (0.78)	-0.04 (0.73)	-0.01 (0.70)	0.04 (0.82)
Supermarkets ^h	-0.04 (0.30)	-0.07 (0.71)	-0.06 (0.82)	-0.11 (0.70)	-0.07 (0.63)
Co-ops ^h	-0.07 (0.51)	-0.20 (0.34)	-0.22 (0.33)	-0.15 (0.47)	-0.15 (0.43)

**HIGH CONNECTIVITY/AMENITIES
CLUSTER [n=1398 (59.4%)]**

Total park area (km ²) ^b	0.21 (1.07)	0.18 (1.04)	0.24 (1.07)	0.15 (1.03)	0.23 (1.09)
Intersection density ^c	0.90 (0.71)	0.68 (0.82)	0.76 (0.78)	0.80 (0.87)	0.83 (0.77)
Links (count) ^d	0.78 (1.13)	0.68 (1.10)	0.77 (1.09)	0.90 (1.01)	0.77 (1.05)
Cul-de-sacs (count)	-0.03 (0.67)	-0.08 (0.79)	-0.06 (0.76)	0.13 (1.28)	-0.03 (0.80)
Beta index ^e	0.42 (1.05)	0.61 (1.13)	0.53 (1.04)	0.56 (1.04)	0.46 (1.05)
Total road length (km)	0.48 (0.99)	0.43 (0.90)	0.51 (0.91)	0.36 (0.87)	0.45 (0.90)
Percentage residential ^f	-0.47 (0.67)	-0.54 (0.72)	-0.49 (0.77)	-0.50 (0.72)	-0.48 (0.68)
Distance to nearest employment sub-center ^g	-1.00 (0.43)	-0.91 (0.44)	-0.91 (0.66)	-0.95 (0.57)	-0.93 (0.50)
PA facilities ^h	1.23 (1.51)	1.31 (1.46)	1.53 (1.74)	1.14 (1.60)	1.33 (1.52)
Fast food restaurants (chain) ^h	1.36 (1.44)	1.09 (1.34)	1.21 (1.52)	1.45 (1.84)	1.25 (1.45)
Full-service restaurants ^h	2.15 (2.38)	1.56 (2.01)	1.96 (2.10)	1.62 (1.87)	2.00 (2.14)
Convenience stores ^h	0.84 (0.97)	1.25 (1.21)	1.27 (1.26)	1.34 (1.32)	1.06 (1.13)
Supermarkets ^h	0.07 (1.41)	0.68 (1.31)	0.75 (1.21)	0.88 (1.41)	0.47 (1.35)
Co-ops ^h	1.60 (2.83)	1.38 (2.11)	1.44 (1.96)	0.79 (1.59)	1.56 (2.31)

^a Clusters created *a posteriori* clusters using non-hierarchical cluster analysis with 392 neighborhoods across 6 exam years (n=2352 neighborhoods) in the core 4 cities (Birmingham, AL; Chicago, IL; Minneapolis, MN; Oakland, CA)

^b We calculated the total park area within the boundaries of each neighborhood, and excluded (clipped) any park area that extended beyond the boundaries. The park area outside of the boundaries would count toward the total park area in the adjacent neighborhood unit(s).

^c Intersection density represents the number of 3-way, 4-way, and higher intersections per km²

^d Number of connections between intersections

^e Ratio of links to nodes (intersections)

^f Percentage of roads used for local traffic

^g Distance from neighborhood centroid to nearest employment center centroid (km)

^h Count per km² land within neighborhood