True Color Map of Western Los Angeles
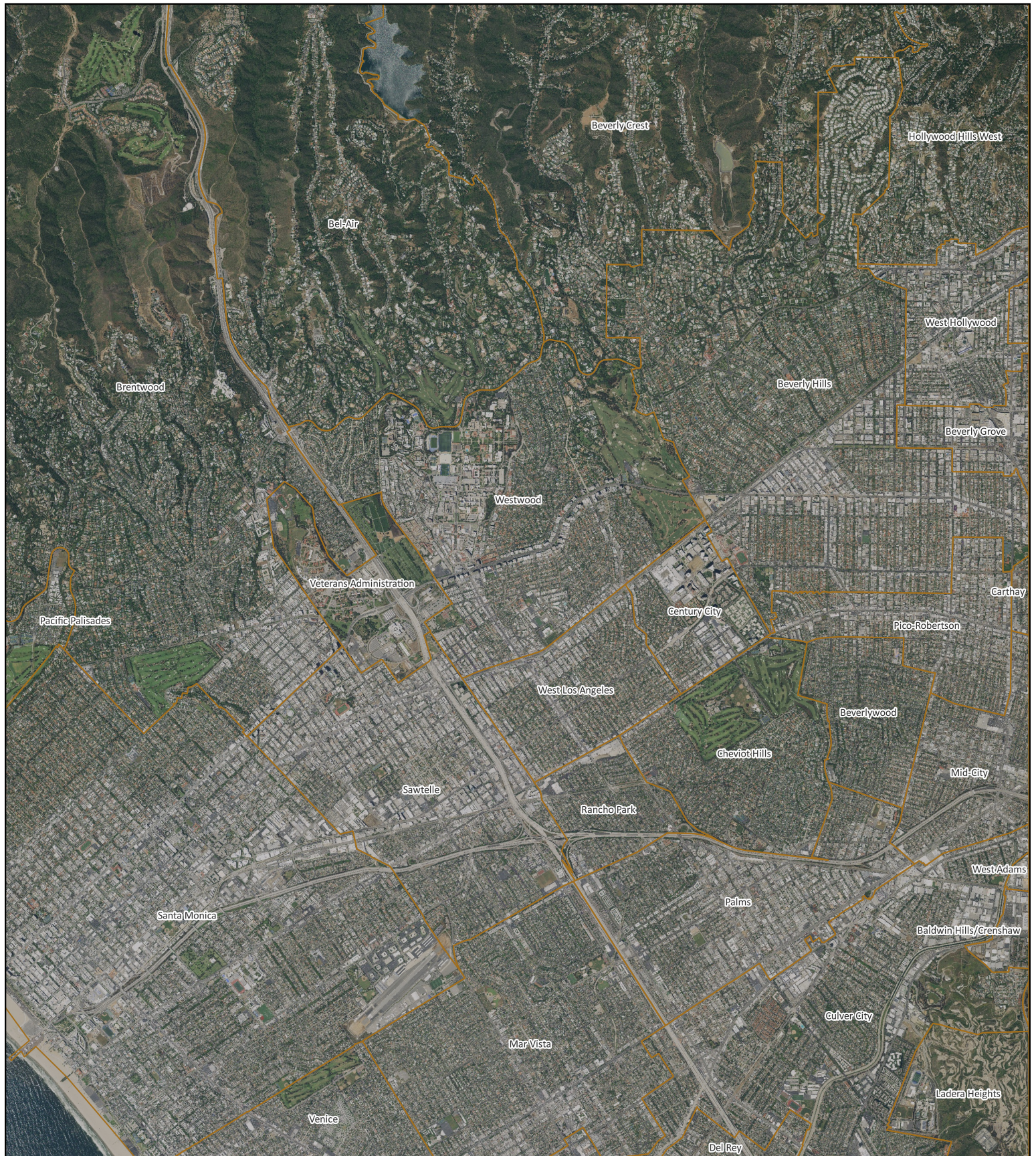
Cartography by Randall Scharpf for Geography 7
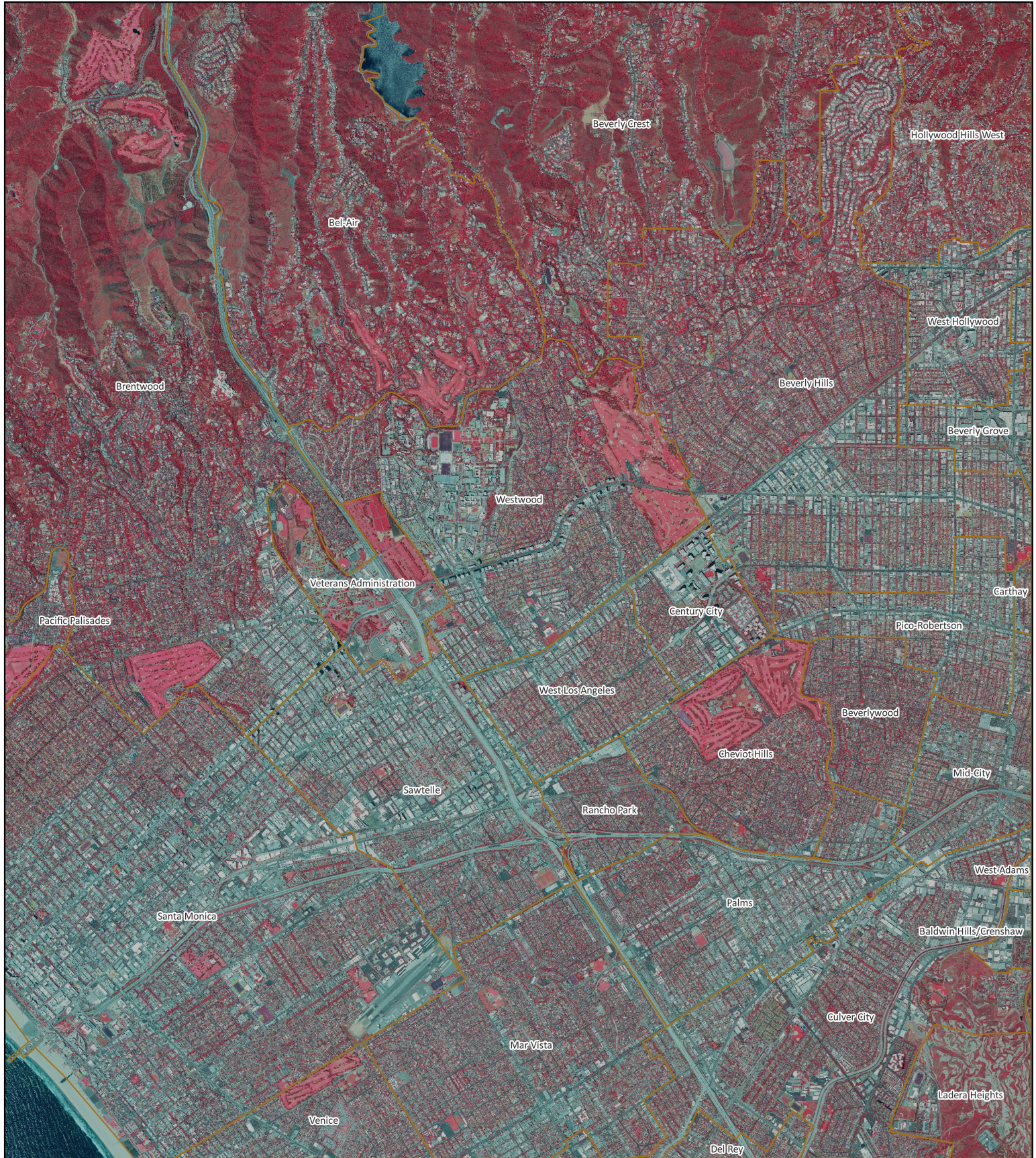

Beverly Crest

Hollywood Hills West

Bel-Air

West Hollywood

Brentwood

Beverly Hills

Beverly Grove

Westwood

Carthay

Veterans Administration

Century City

Pico-Robertson

Pacific Palisades

West Los Angeles

Beverlywood

Cheviot Hills

Mid-City

Sawtelle

Rancho Park

West Adams

Santa Monica

Palms

Baldwin Hills/Crenshaw

Mar Vista

Culver City

Ladera Heights

Venice

Del Rey

Color Infrared Map of Western Los Angeles

Cartography by Randall Scharpf for Geography 7

Beverly Crest

Hollywood Hills West

Bel-Air

West Hollywood

Brentwood

Beverly Hills

Beverly Grove

Westwood

Carthay

Veterans Administration

Pacific Palisades

Century City

Pico-Robertson

West Los Angeles

Beverlywood

Cheviot Hills

Mid-City

Sawtelle

Rancho Park

West Adams

Santa Monica

Palms

Baldwin Hills/Crenshaw

Culver City

Mar Vista

Ladera Heights

Venice
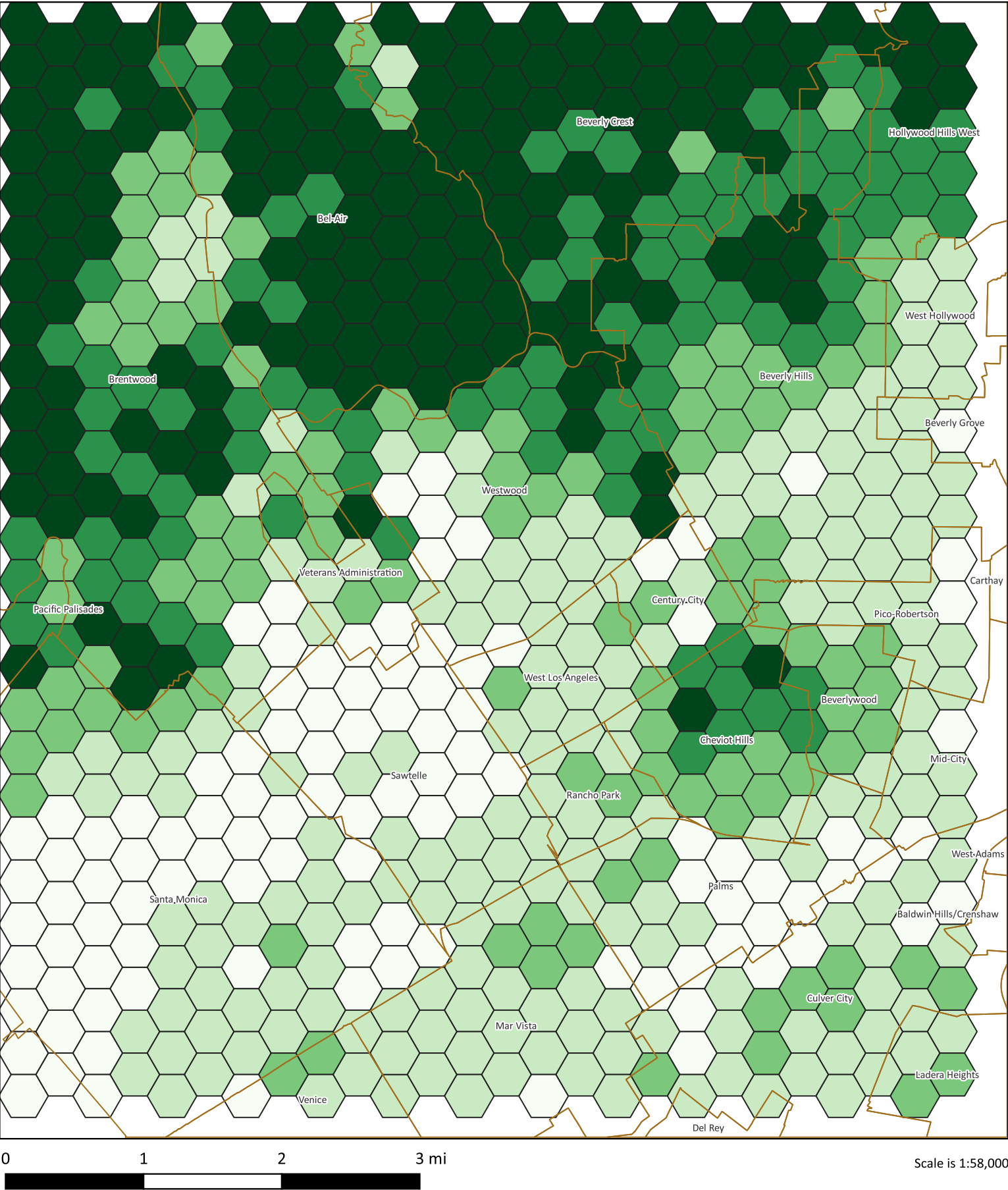
Del Rey

0   1   2   3 mi

Scale is 1:58,000

NAIP imagery and neighborhood data from Bruinlearn course website

Map of the Vegatated Portions of Western Los Angeles
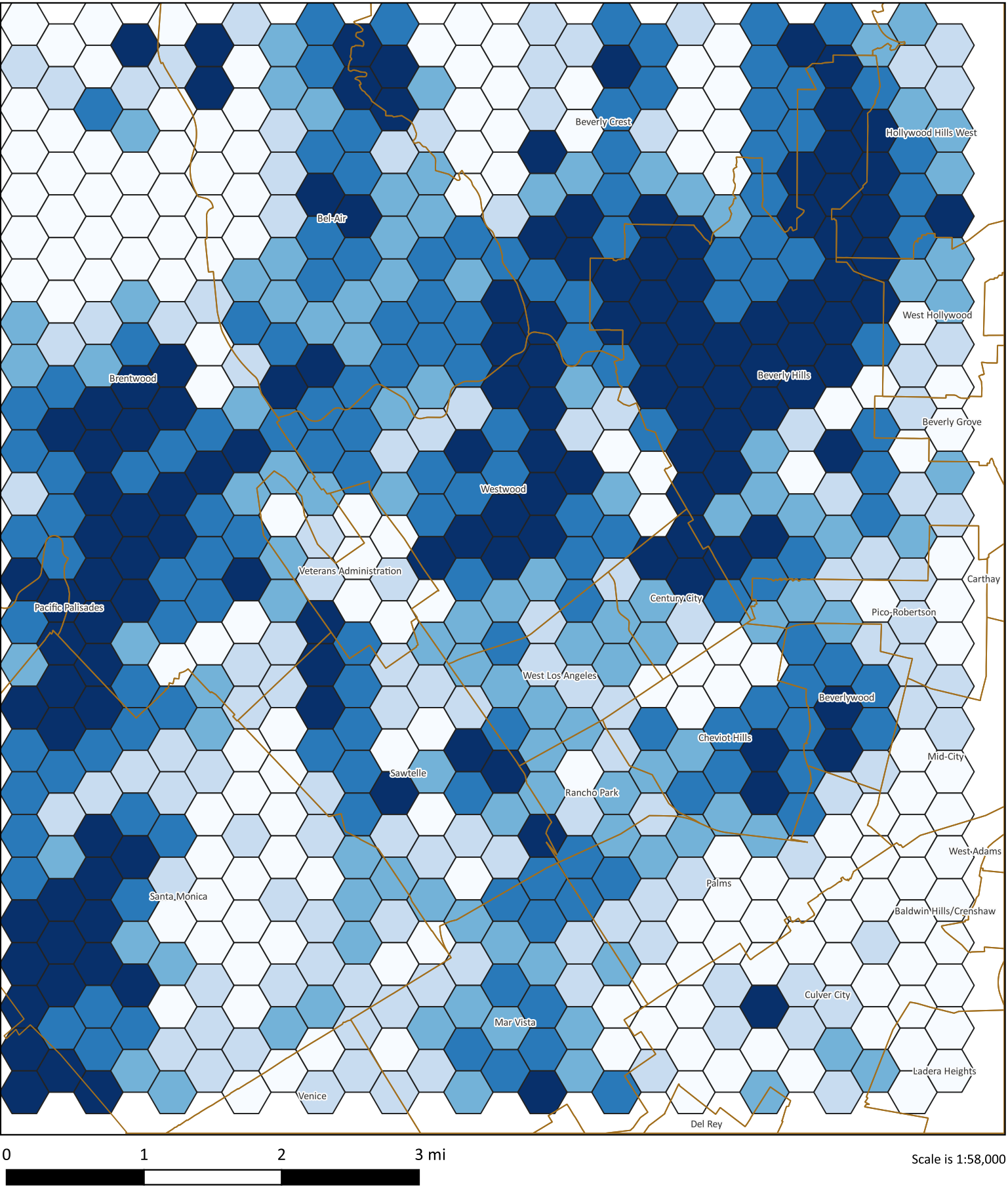
Cartography by Randall Scharpf for Geography 7

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West Adams

Palms

Santa Monica

Baldwin Hills/Crenshaw

Mar Vista

Culver City

Venice

Ladera Heights

Del Rey

0   1   2   3 mi

Scale is 1:58,000

NAIP imagery and neighborhood data from Bruinlearn course website

Percent Vegetated

| < 10% | 10 - 20% | 20 - 30% | 30 - 40% | > 40% |

Map of the Water-Covered Portions of Western Los Angeles

Cartography by Randall Scharpf for Geography 7

Beverly Crest

Hollywood Hills West

Bel-Air

West Hollywood

Brentwood

Beverly Hills

Beverly Grove

Westwood

Veterans Administration

Carthay

Pacific Palisades

Century City

Pico-Robertson

West Los Angeles

Beverlywood

Cheviot Hills

Mid-City

Sawtelle

Rancho Park

West Adams

Santa Monica

Palms

Baldwin Hills/Crenshaw

Culver City

Mar Vista

Ladera Heights

Venice

Del Rey

0   1   2   3 mi

Scale is 1:58,000

NAIP imagery and neighborhood data from Bruinlearn course website

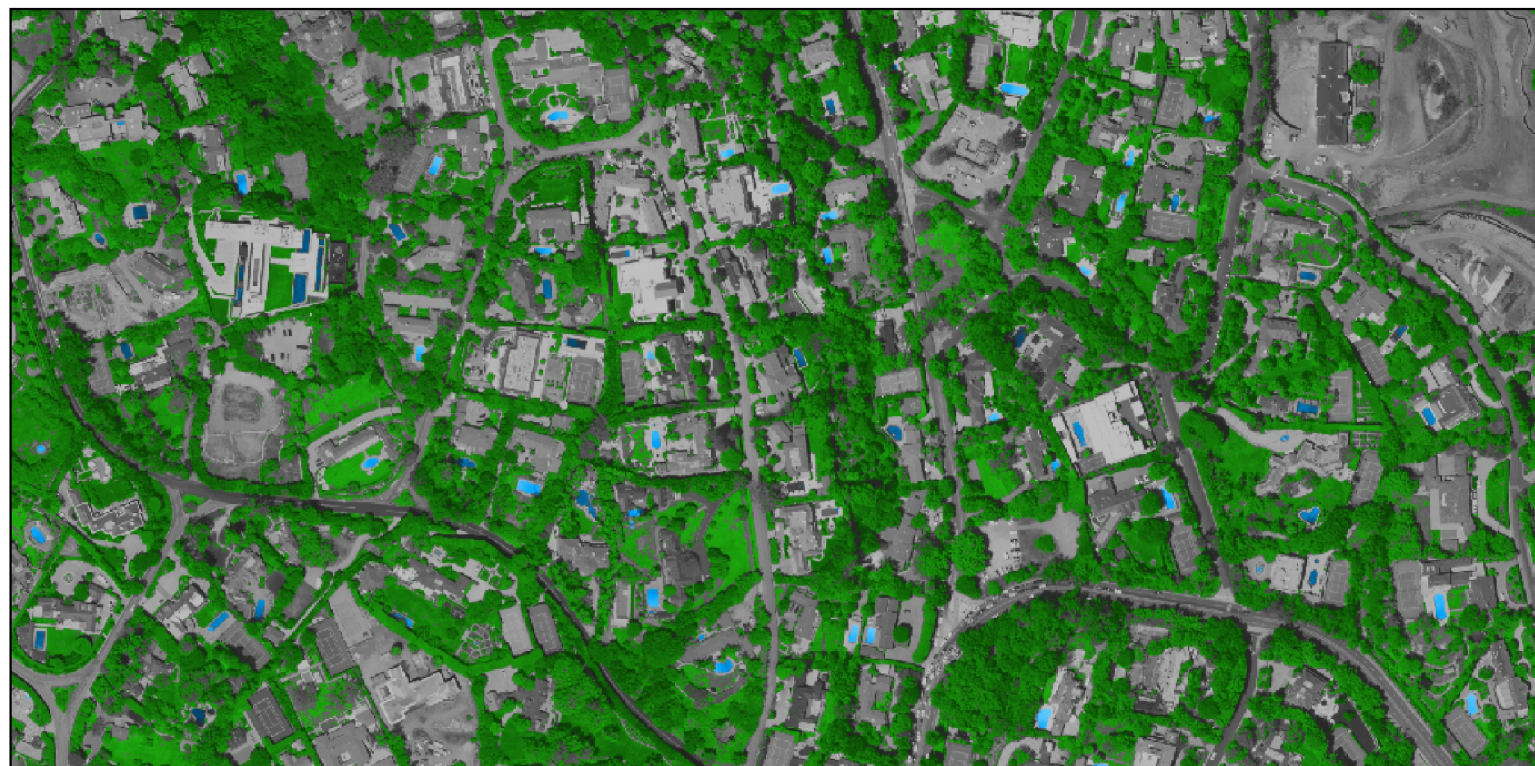Percent Water-Covered

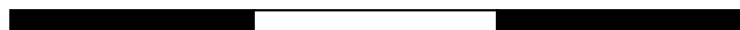| < 0.1% | 0.1 - 0.2 % | 0.2% - 0.35% | 0.35% - 0.6% | > 0.6% |
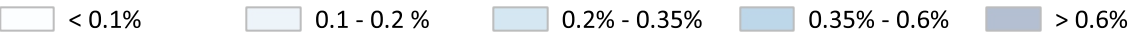
Low-Vegetation, Low-Water-Coverage Area in the Palms Neighborhood

High-Vegetation, High-Water-Coverage Area in Bel-Air and Beverly Hills

0   0.1   0.2   0.3 mi

Scale is 1:5,000

Water-covered Areas

Vegetated Areas

NAIP imagery and neighborhood data from Bruinlearn course website
Cartography by Randall Scharpf for Geography 7

We see the largest areas of high-density vegetation in the neighborhoods of Bel-Air and Beverly Hills. These areas are low-density residential neighborhoods, consisting of groups of houses surrounded by canyons of chaparral. We also see smaller areas with high-density vegetation near large city parks, golf courses, and cemeteries. We see far lower vegetation densities in the commercial and industrial areas of Santa Monica, Sawtelle, and Palms. Similarly, we don't see many swimming pools, reservoirs, or lakes in the industrial and commercial regions of West Los Angeles. This is despite a tendency of NDVI to incorrectly label large shadows that fall onto concrete as water. This concrete experiences minimal solar heating, and therefore has low near-infrared emissions that resemble the low near-infrared reflectance of water. Similarly, the concrete in cemeteries seems to confuse the NVDI values, with the headstones interspersed amongst the grasses resulting in lower densities of healthy vegetation than would otherwise be expected. These NVDI values, which produce a relatively accurate representation of vegetative cover, can be used by city planners who are looking to decrease the power used by residential air conditioning by increasing natural shade cover. Areas with low density of high-NDVI locations can be targeted by urban relandscaping programs that plant new trees, while areas already having many high-NDVI locations can be processed after the most impacted areas are taken care of. It can also be used to demonstrate a need for new urban design products in commercial and industrial areas by demonstrating the need for funding of new projects that innovate in warehouse and industrial complex design.