

Appendix - Chapter 2

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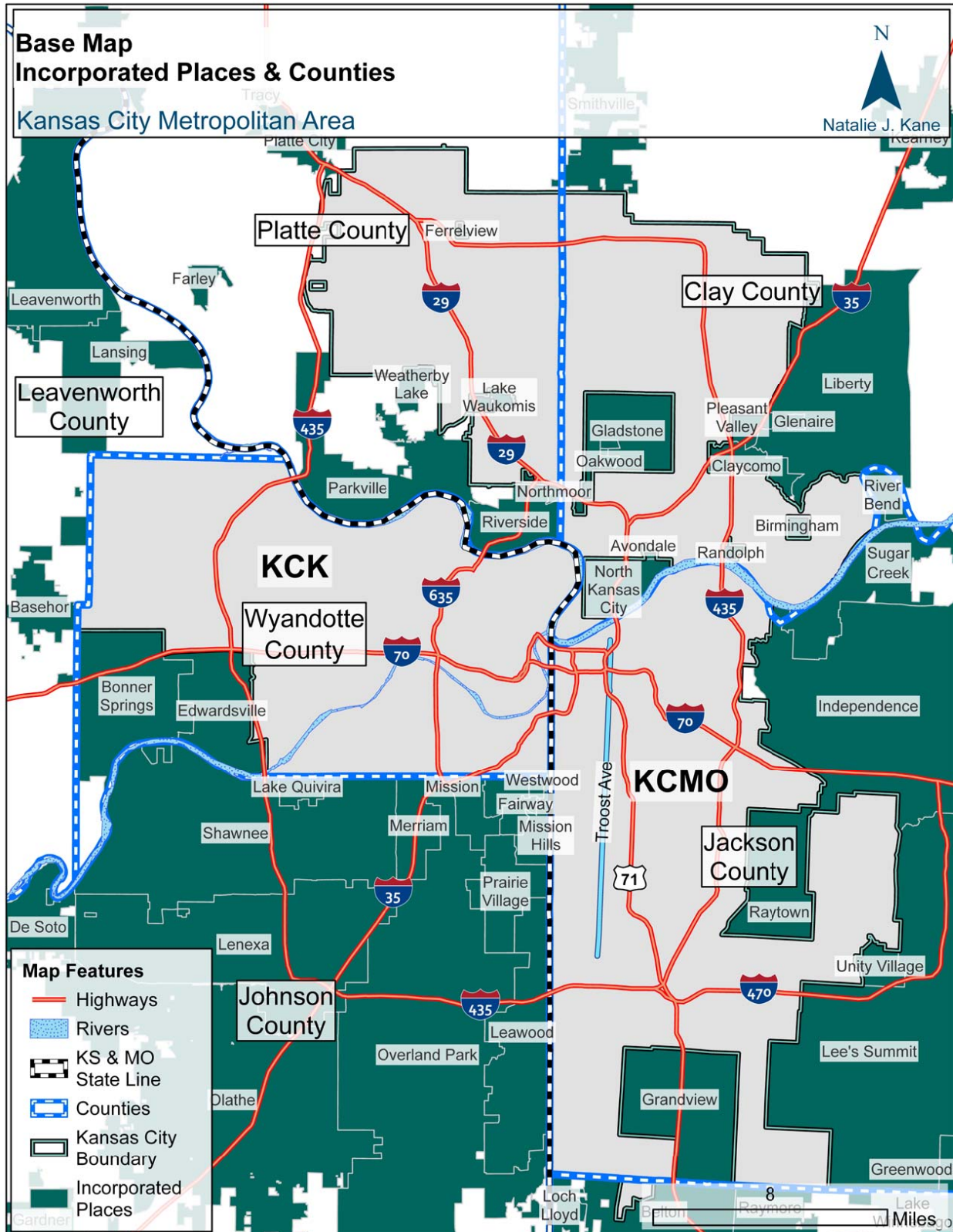
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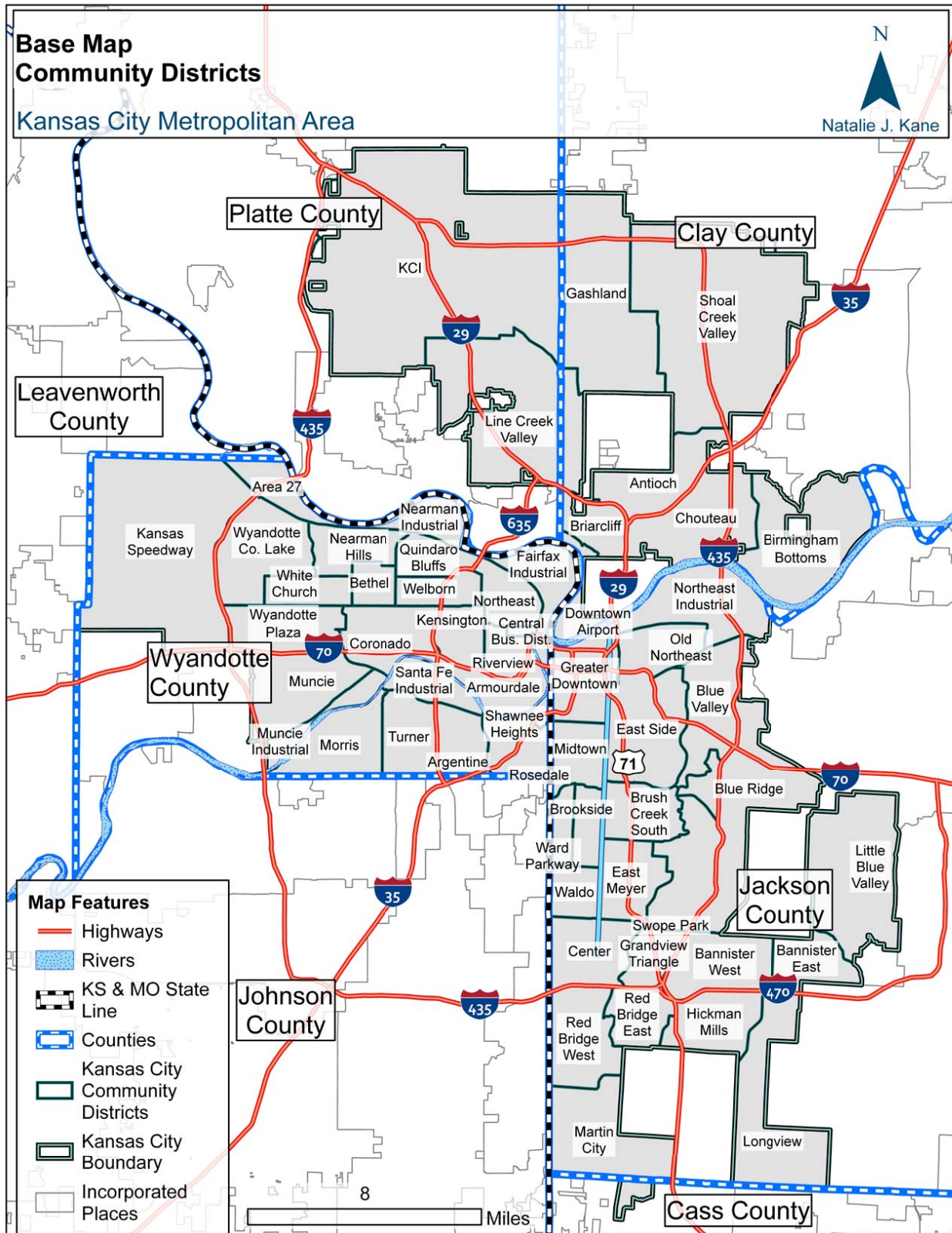
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Kansas City Base Maps

A.2.1. Incorporated Places & Counties



A.2.2. Community Districts



Comparison of CMH and State Asthma ED Visit Samples

A.2.3. CMH Asthma ED Visit Data Subset by EPHT Sample Selection Criteria (2012)

Study Area Counties	CMH Asthma ED Visits	Subset by Primary Diagnosis	Subset by In-State Treatment	Excluding Multiple Visits - Final Sample
KS: Johnson, Wyandotte	1211	912	643	622
MO: Jackson, Clay	2914	2044	1475	1423
All	4125	2956	2118	2045

Notes

The Children's Mercy Hospital (CMH) Asthma ED Visit sample includes records for patients age 5-14 admitted to the emergency department or for observation in 2012. This sample was subset according to the state-published Environmental Public Health Tracking (EPHT) sample selection criteria.

A.2.4. CMH and EPHT Asthma ED Visits Sample Size Comparison (2012)

Study Area Counties	Full CMH Sample	Final CMH Sample	EPHT Sample - State Total	Final CMH Sample/ State Total
KS: Johnson, Wyandotte	1211	622	1026	0.61
MO: Jackson, Clay	2914	1423	1951	0.73
All	4125	2045	2977	0.69

A.2.5. Demographic Distribution of Asthma ED Visits for Children Age 0-14 in Missouri Counties (2012)

Race	CMH Sample (N=2301)	CMH Sample (%)	EPHT Sample (N=3013)	EPHT Sample (%)
Black or African American	1388	60.3	1861	61.8
White	481	20.9	676	22.4
Other	432	18.8	476	15.8

Notes

Patient demographic information for asthma emergency department (ED) visits was only available for study area counties in Missouri. The CMH sample was modified to match available data, including records for children age 0-14 in 2012.

Asthma Encounter Severity by Data Type

A.2.6. ICD-9 Asthma Diagnosis Codes

Severity Level	ICD-9 Diagnosis
1 - Controlled	493.00 - EXTRINSIC ASTHMA, NOS 493.10 - INTRINSIC ASTHMA, NOS 493.20 - CHRONIC OBSTRUCTIVE ASTHMA, NOS 493.82 - COUGH VARIANT ASTHMA 493.90 - ASTHMA, UNSPECIFIED
2 - Acute Care Visit	493.02 - EXTRINSIC ASTHMA, W (ACUTE) EXACERBATION 493.12 - INTRINSIC ASTHMA, W (ACUTE) EXACERBATION 493.81 - EXERCISE INDUCED BRONCHOSPASM 493.92 - ASTHMA, UNSPECIFIED, W (ACUTE) EXACERBATION
3 - Hospitalization	493.01 - EXT ASTHMA W STATUS ASTH 493.11 - INT ASTHMA W STATUS ASTH 493.91 - ASTHMA W STATUS ASTHMAT

A.2.7. Patient Class (Location of Encounter)

Severity Level	Patient Class
1 - Controlled	DIAGNOSTIC/TREATMENT REFERRED OUTPATIENT
2 - Acute Care Visit	EMERGENCY SAME DAY CLINIC
3 - Hospitalization	INPATIENT CHAMPUS INPATIENTS INPATIENTS WITH KS MEDICAID OBSERVATION CHAMPUS OBSERVATION KS MEDICAID OBSERVATION PATIENTS

Environmental Hot Spot Analysis Pattern Definitions

A.2.8. Hot Spots

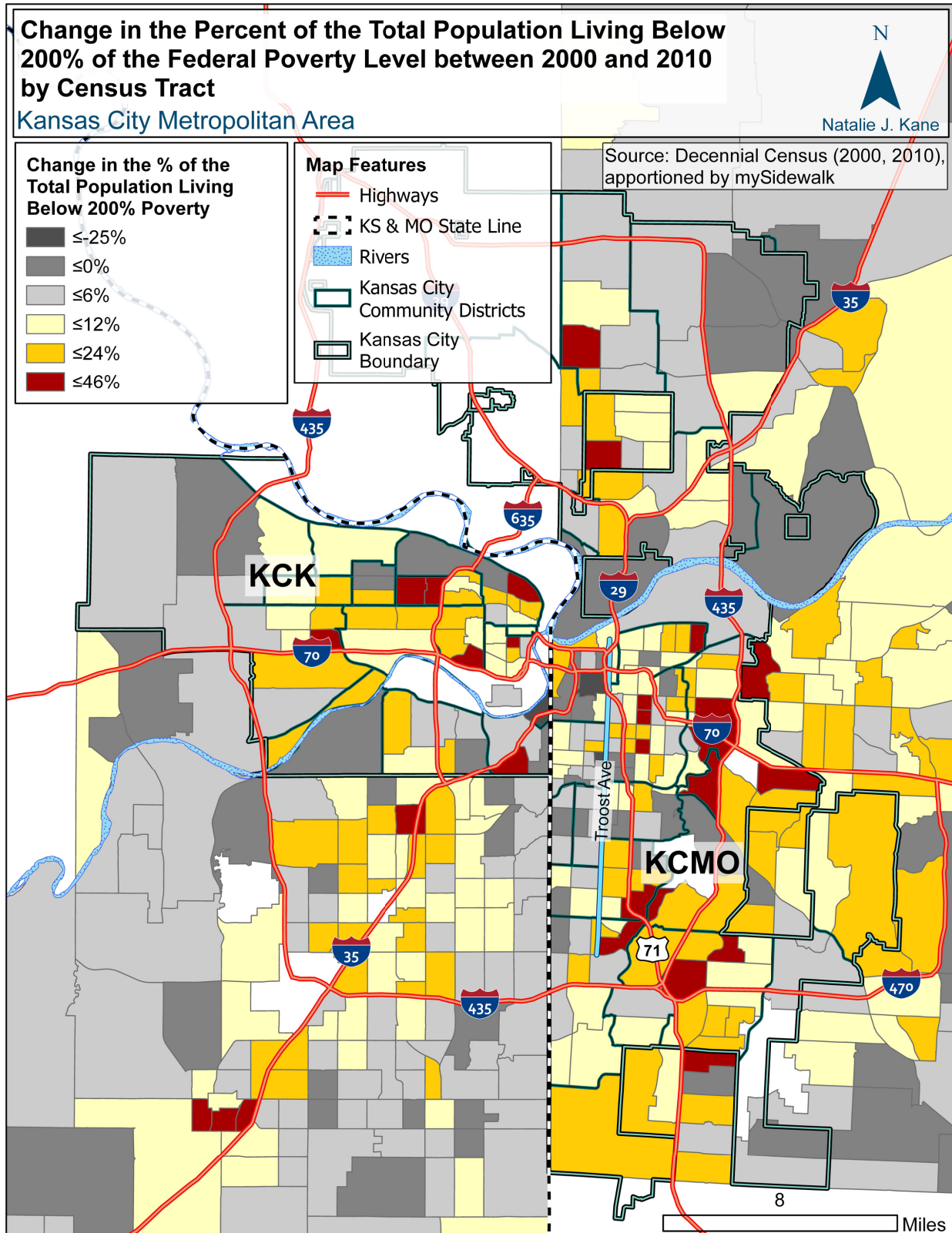
Hot Spot Category	Pattern Definition
Last Time Step is Hot	New: the most recent time step interval is hot for the first time
	Consecutive: a single uninterrupted run of hot time step intervals, comprised of less than 90% of all intervals
	Intensifying: at least 90% of the time step intervals are hot, and becoming hotter over time
	Persistent: at least 90% of the time step intervals are hot, with no trend up or down
	Diminishing: at least 90% of the time step intervals are hot, and becoming less hot over time
	Sporadic: some of the time step intervals are hot
	Oscillating: some of the time step intervals are hot, some are cold
Last Time Step is Not Hot	Historical: at least 90% of the time step intervals are hot, but the most recent time step interval is not

A.2.9. Cold Spots

Cold Spot Category	Pattern Definition
Last Time Step is Cold	New: the most recent time step interval is cold for the first time
	Consecutive: a single uninterrupted run of cold time step intervals, comprised of less than 90% of all
	Intensifying: at least 90% of the time step intervals are cold, and becoming colder over time
	Persistent: at least 90% of the time step intervals are cold, with no trend up or down
	Diminishing: at least 90% of the time step intervals are cold, and becoming less cold over time intervals
	Sporadic: some of the time step intervals are cold
	Oscillating: some of the time step intervals are cold, some are hot
Last Time Step is Not Cold	Historical: at least 90% of the time step intervals are cold, but the most recent time step interval is not

Population Change Maps

A.2.10. Change in the Percent Living Below 200% of the Poverty Level



A.2.11. Change in the Percent of the Population Under Age 18

