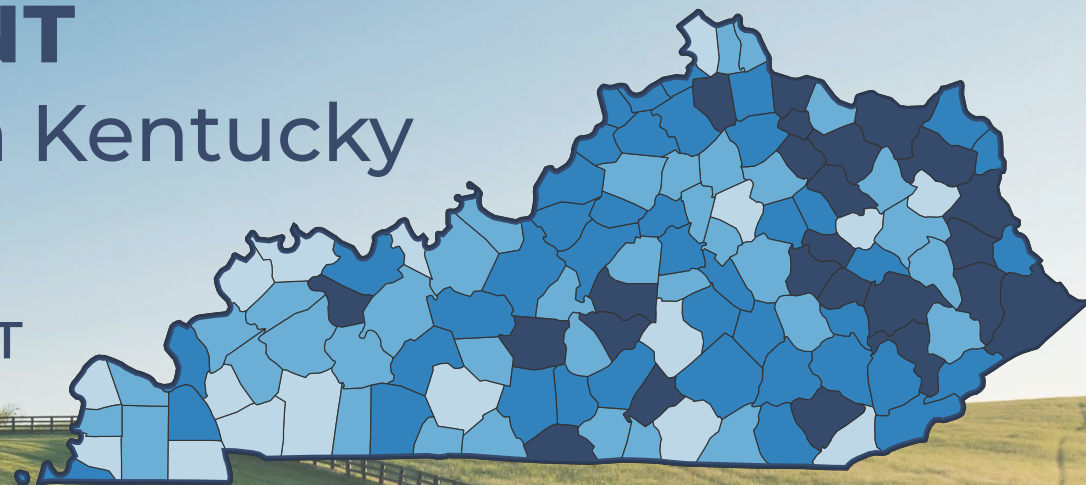


2021 KENTUCKY CANCER NEEDS ASSESSMENT

The Story of Cancer in Kentucky

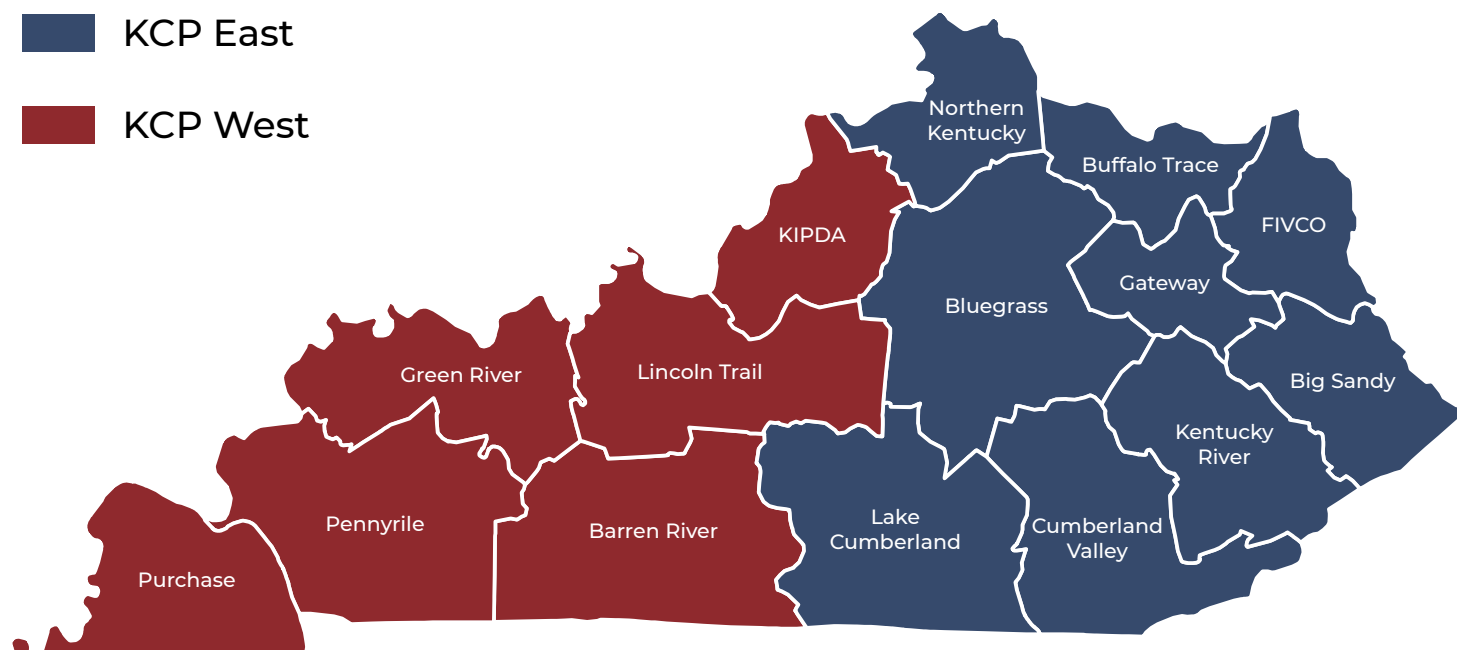
DISTRICT PROFILES: KCP EAST



AREA DEVELOPMENT DISTRICT PROFILES

The Commonwealth of Kentucky has 120 counties that are broken into 15 different Area Development Districts (ADDs). ADDs consist of anywhere from 5 to 17 counties in a contiguous geographic region. The mission of the ADDs is to bring local civic and governmental leaders together to accomplish major objectives and take advantage of opportunities which cannot be achieved or realized by those governments acting alone.

The purpose of the following pages is to summarize relevant social determinants of health, behavioral risk factors and cancer incidence and mortality at the ADD level to facilitate coordination in the realm of cancer prevention and control planning. The Kentucky Cancer Program (KCP)—jointly administered by the University of Kentucky (KCP East) and University of Louisville (KCP West)—has been charged with leading this task in Kentucky.



ADD PROFILE SOURCES

American Community Survey, 5-year Estimates, 2015-2019

Total population and age, sex, race and ethnicity breakdowns; Education completed; Uninsured; Median income; Living below poverty; Internet devices

County Health Rankings & Roadmaps, 2021

Access to parks and gyms

Health Resources and Services Administration, 2021

Hospitals and clinics; Geographic Health Professional Shortage Areas

Kentucky Behavioral Risk Factor Survey, 2016-2019

Smoking; Unhealthy weight; Physical inactivity; Unhealthy drinking (2018-2019)

Female breast, colorectal and Pap screening rates (2016 and 2018)

Lung screening rates (2017 and 2019)

Kentucky Cabinet for Health & Family Services, 2019

Medicaid enrollment

Kentucky Cancer Registry, 2014-2018

Cancer incidence and mortality rates; Late-stage diagnosis

US Department of Agriculture, Economic Research Service, 2019

Access to healthy foods

DATA DEFINITIONS

Access to healthy foods	Lacking access to healthy foods is defined as residing in a low-income and low food access using vehicle census tract. A low-income census tract is one where (a) the poverty rate is 20 percent or greater; or (b) the median family income is less than or equal to 80 percent of the State-wide median family income; or (c) the tract is in a metropolitan area and has a median family income less than or equal to 80 percent of the metropolitan area's median family income. A census tract is considered low access if (a) at least 100 households are more than one-half mile from the nearest supermarket and have no access to a vehicle; or (b) at least 500 people or 33 percent of the population live more than 20 miles from the nearest supermarket, regardless of vehicle access.
Access to parks and gyms	Individuals are considered to have access to exercise opportunities [parks and gyms] if (a) they reside in a census block that is within a half mile of a park, or (b) they reside in an urban census block that is within one mile of a recreational facility, or (c) they reside in a rural census block that is within three miles of a recreational facility.
Breast, colorectal and lung screen	Individuals meeting the US Preventive Services Task Force recommendations for female breast, colorectal or lung cancer screening
Federally Qualified Health Center	Federally Qualified Health Centers (FQHCs) are community-based health care providers that receive funds from the HRSA Health Center Program to provide primary care services in underserved areas. They must meet a stringent set of requirements, including providing care on a sliding fee scale based on ability to pay and operating under a governing board that includes patients.
Geographic Health Professional Shortage Area	A Geographic Health Professional Shortage Area (HPSA) is a geographic area that has been designated by the Health Resources and Services Administration (HRSA) as having a shortage of health professionals in primary care
Pap screen	Females age 21 to 64 who have not had a hysterectomy and have had a Pap test in the past three years
Physical inactivity	Adults who did not participate in any physical activities for exercise outside of work in the past 30 days
Unhealthy drinking	Males who have had 5+ alcoholic drinks on one occasion in the past 30 days or average 2 alcoholic drinks daily; females who have had 4+ alcoholic drinks on one occasion in the past 30 days or average 1 alcoholic drink daily
Unhealthy weight	Adults with a BMI of 25 or higher

Population
142,726

Annual New
Cancer Cases
1,063

Social Determinants of Health



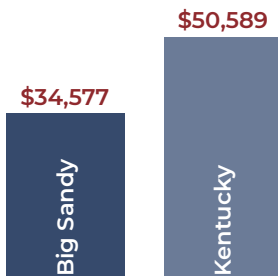
51%
female

21%
under 18

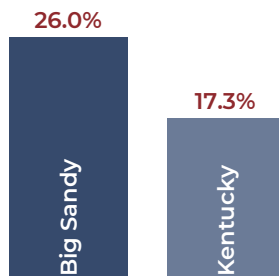
18%
over 64

5%
uninsured

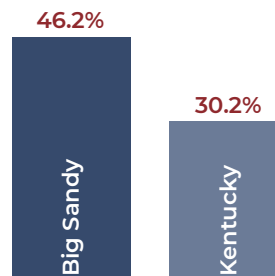
Median Income



Below Poverty



On Medicaid



People Lacking Access



50%
to healthy foods

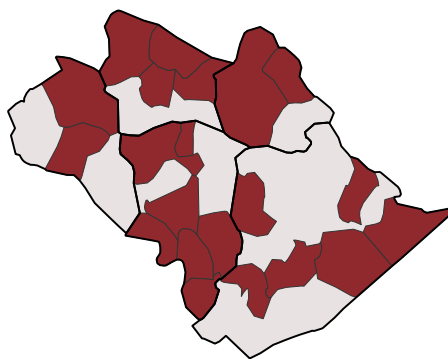


53%
to parks and gyms

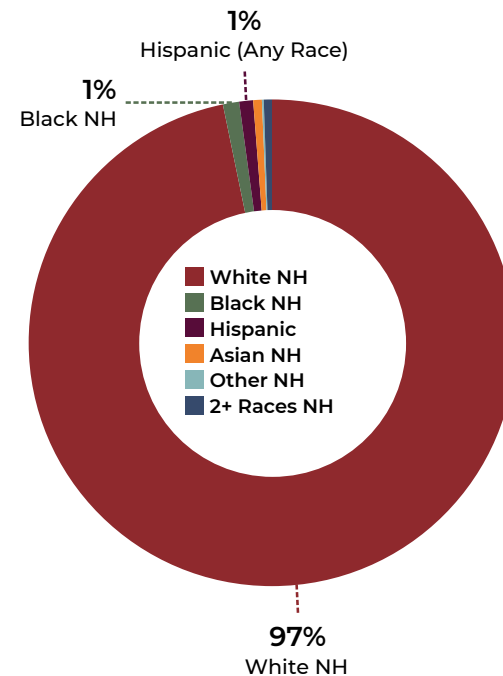


18%
to internet devices

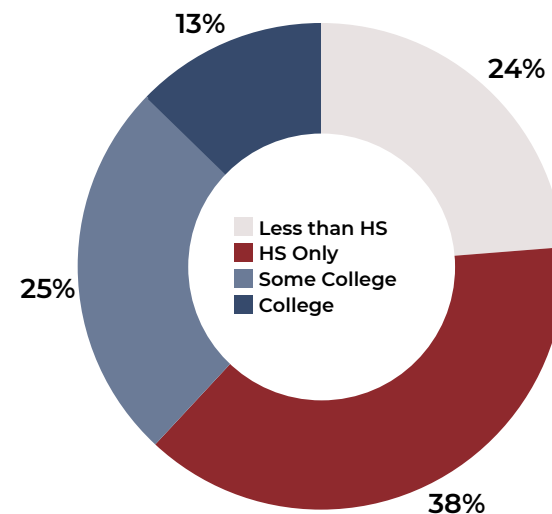
Areas Lacking Access to Healthy Foods



Race and Ethnicity



Education Completed



College Graduation in KY: 24%

Healthcare System



11 Hospitals

19 Rural Health Clinics

13 Federally-Qualified Health Centers

1 Geographic Health Professional Shortage Areas

Cancer-related Outcomes

Cancer Risk Factors



26%
currently
smoke



79%
unhealthy
weight



53%
physically
inactive



7%
unhealthy
drinking

Screening Rates & Late-Stage Diagnosis



21%
lung
screen

2nd of 15 ADDs

75%
late stage

3rd of 15 ADDs



72%
breast
screen

13th of 15 ADDs

31%
late stage

14th of 15 ADDs



64%
colorectal
screen

10th of 15 ADDs

44%
late stage

11th of 15 ADDs



75%
Pap
screen

11th of 15 ADDs

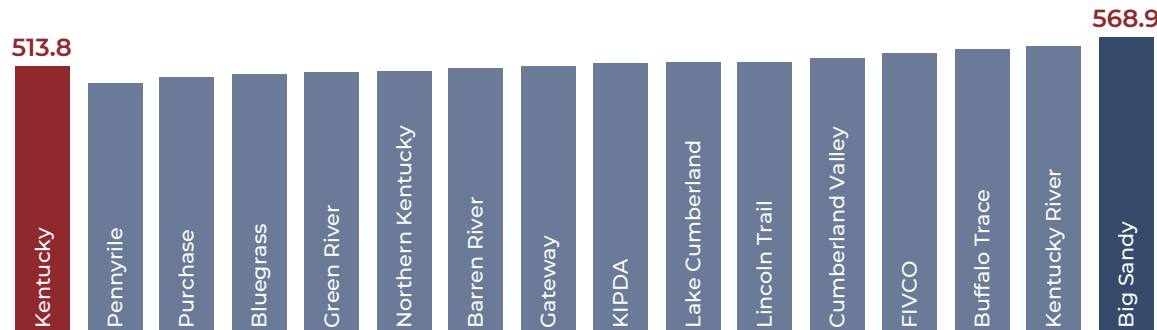
52%
late stage

13th of 15 ADDs

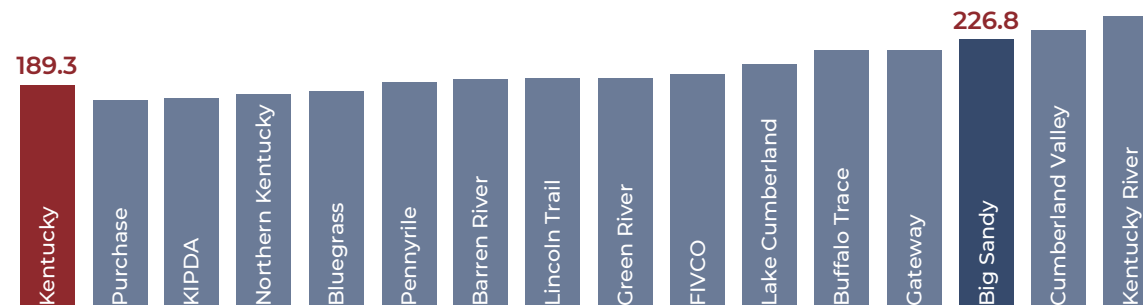
Top 5 Incidence Rates

Cancer Site	of 15 ADDs	Rate/100k
Female Breast	9th	120.1
Lung & Bronchus	14th	115.0
Prostate	7th	95.7
Endometrium	15th	35.4
Melanoma	4th	24.8

All Cancer Site Incidence (US rate: 438.3)



All Cancer Site Mortality (US rate: 147.5)



Top 5 Mortality Rates

Cancer Site	of 15 ADDs	Rate/100k
Lung & Bronchus	13th	79.0
Prostate	14th	23.8
Colon & Rectum	15th	23.3
Female Breast	5th	20.7
Pancreas	13th	12.7

Rates are age adjusted per 100k residents

For ranking "of 15 ADDs":
1st indicates best, 15th indicates worst

visit www.KYCancerNeeds.org
for more resources

Population
820,275

Annual New
Cancer Cases
4,590

Social Determinants of Health



51%
female

22%
under 18

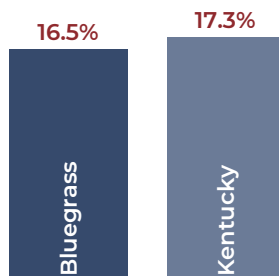
15%
over 64

6%
uninsured

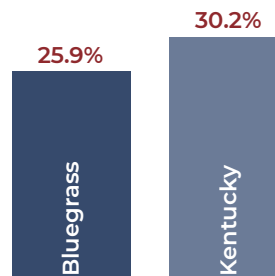
Median Income



Below Poverty



On Medicaid



People Lacking Access



18%
to healthy foods

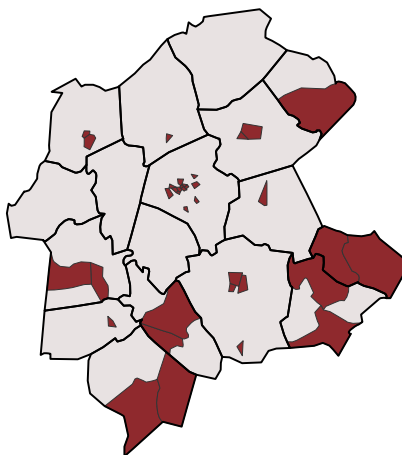


19%
to parks and gyms

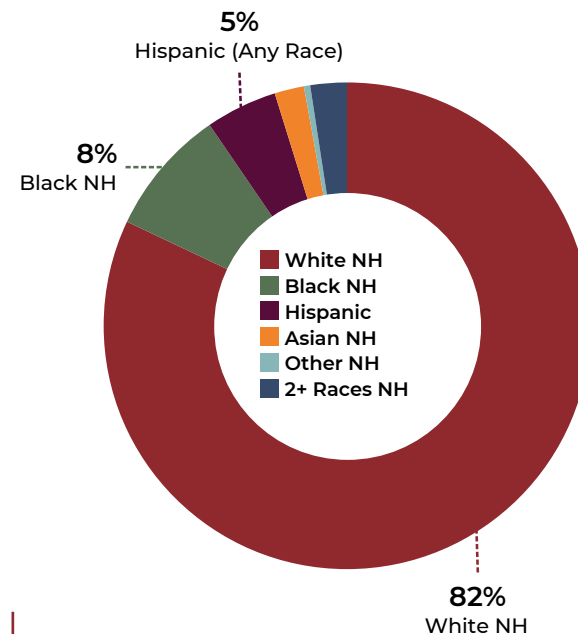


10%
to internet devices

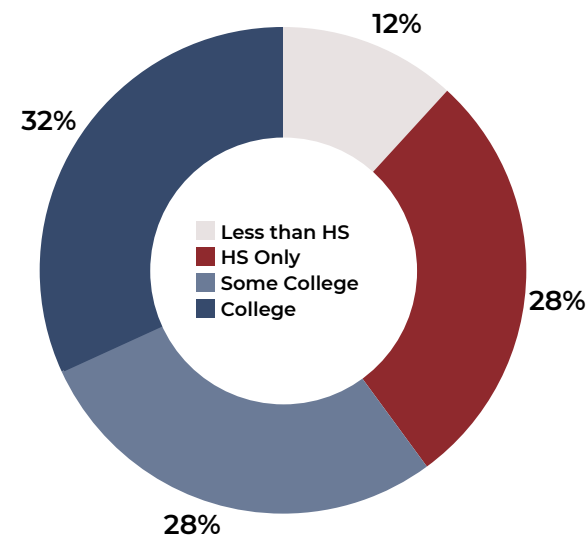
Areas Lacking Access to Healthy Foods



Race and Ethnicity



Education Completed



College Graduation in KY: 24%

Healthcare System



23 Hospitals

40 Rural Health Clinics

45 Federally-Qualified Health Centers

2 Geographic Health Professional Shortage Areas

Cancer-related Outcomes

Cancer Risk Factors



19%
currently
smoke



66%
unhealthy
weight



43%
physically
inactive



21%
unhealthy
drinking

Screening Rates & Late-Stage Diagnosis



19%
lung
screen

4th of 15 ADDs

78%
late stage

9th of 15 ADDs



77%
breast
screen

6th of 15 ADDs

26%
late stage

5th of 15 ADDs



73%
colorectal
screen

3rd of 15 ADDs

42%
late stage

6th of 15 ADDs



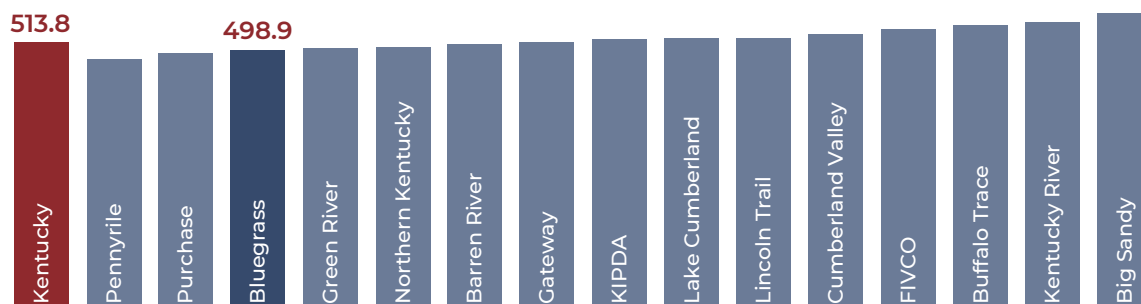
84%
Pap
screen

4th of 15 ADDs

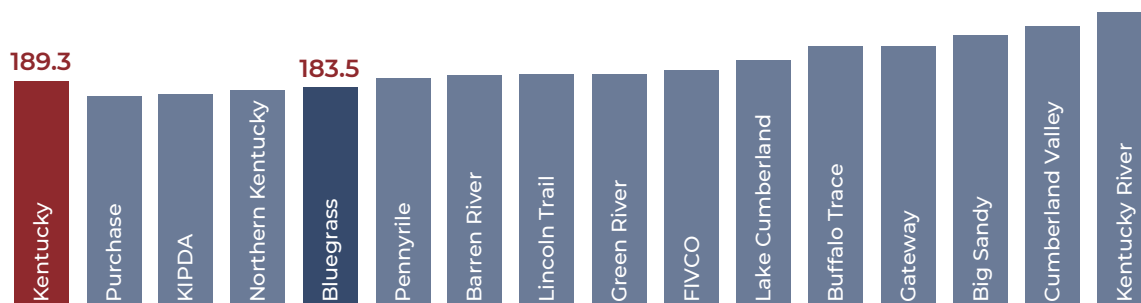
43%
late stage

6th of 15 ADDs

All Cancer Site Incidence (US rate: 438.3)



All Cancer Site Mortality (US rate: 147.5)



Top 5 Incidence Rates

Cancer Site	of 15 ADDs	Rate/100k
Female Breast	14th	137.6
Prostate	11th	103.3
Lung & Bronchus	1st	78.3
Endometrium	8th	29.4
Melanoma	13th	29.2

Top 5 Mortality Rates

Cancer Site	of 15 ADDs	Rate/100k
Lung & Bronchus	4th	58.4
Female Breast	9th	21.2
Prostate	12th	20.9
Colon & Rectum	3rd	15.0
Pancreas	2nd	9.7

Rates are age adjusted per 100k residents

For ranking "of 15 ADDs":
1st indicates best, 15th indicates worst

visit www.KYCancerNeeds.org
for more resources

Population
55,470

Annual New
Cancer Cases
400

Social Determinants of Health



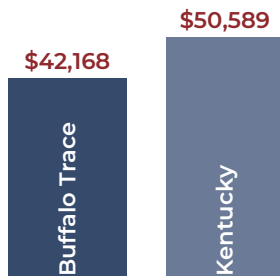
50%
female

23%
under 18

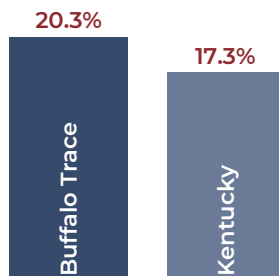
18%
over 64

7%
uninsured

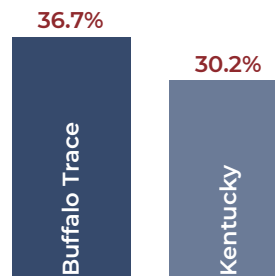
Median Income



Below Poverty



On Medicaid



People Lacking Access



23%
to healthy foods

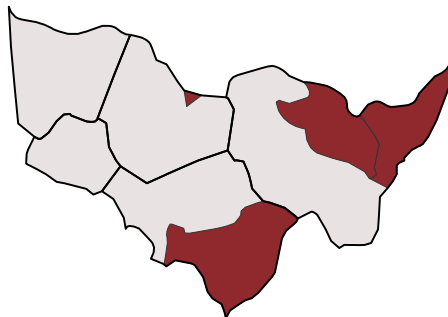


52%
to parks and gyms



21%
to internet devices

Areas Lacking Access to Healthy Foods



Healthcare System



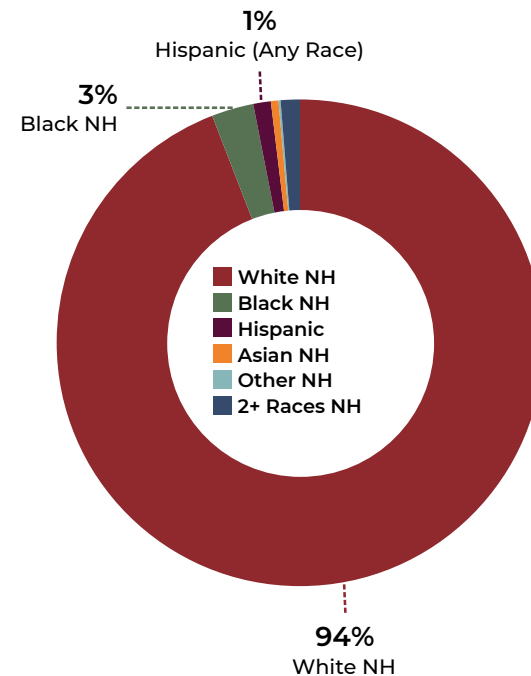
2 Hospitals

1 Rural Health Clinics

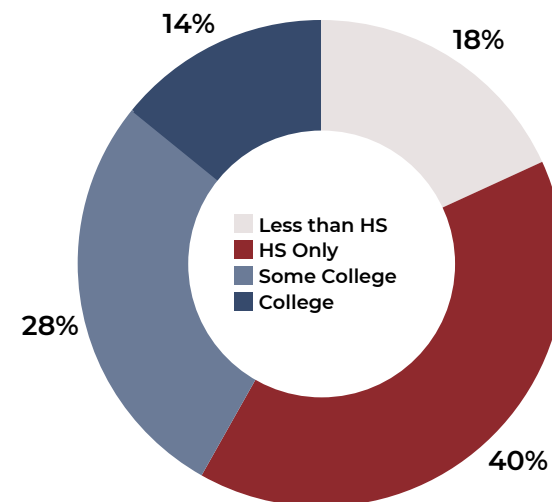
7 Federally-Qualified Health Centers

1 Geographic Health Professional Shortage Areas

Race and Ethnicity



Education Completed



College Graduation in KY: 24%

Cancer-related Outcomes

Cancer Risk Factors



30%
currently
smoke



73%
unhealthy
weight



65%
physically
inactive



13%
unhealthy
drinking

Screening Rates & Late-Stage Diagnosis



5%
lung
screen

15th of 15 ADDs

75%
late stage

2nd of 15 ADDs



74%
breast
screen

11th of 15 ADDs

22%
late stage

1st of 15 ADDs



59%
colorectal
screen

14th of 15 ADDs

44%
late stage

10th of 15 ADDs



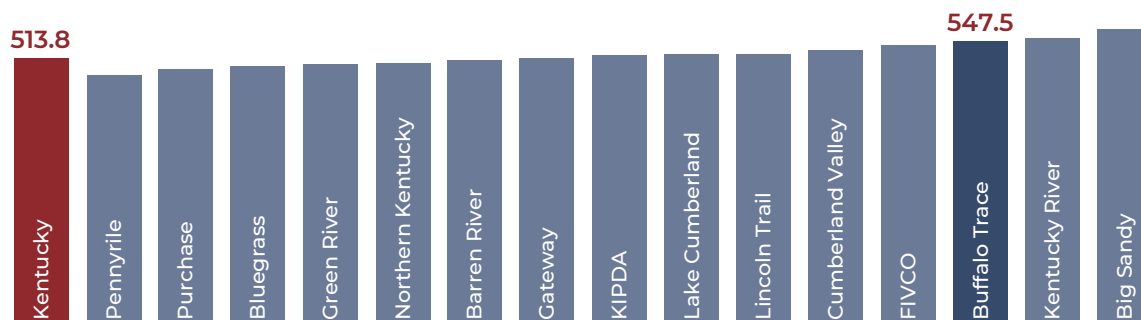
70%
Pap
screen

14th of 15 ADDs

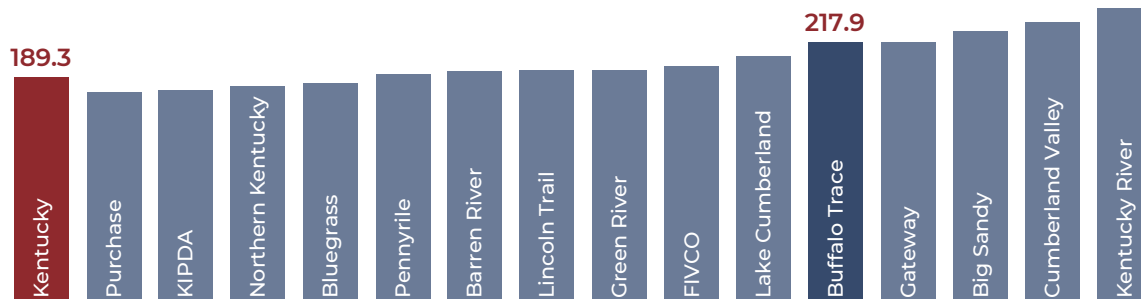
n/a

late stage
n/a of 15 ADDs

All Cancer Site Incidence (US rate: 438.3)



All Cancer Site Mortality (US rate: 147.5)



Top 5 Incidence Rates

Cancer Site	of 15 ADDs	Rate/100k
Female Breast	15th	137.9
Lung & Bronchus	11th	97.4
Prostate	6th	95.4
Endometrium	14th	35.3
Melanoma	3rd	24.6

Top 5 Mortality Rates

Cancer Site	of 15 ADDs	Rate/100k
Lung & Bronchus	12th	78.0
Colon & Rectum	14th	23.3
Female Breast	4th	20.4
Prostate	7th	18.9
Pancreas	9th	11.4

Rates are age adjusted per 100k residents

For ranking "of 15 ADDs":
1st indicates best, 15th indicates worst

visit www.KYCancerNeeds.org
for more resources

Population
231,900

Annual New
Cancer Cases
1,537

Social Determinants of Health



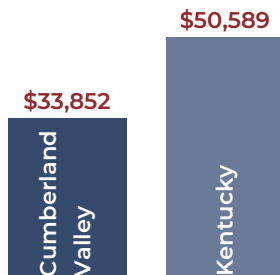
51%
female

23%
under 18

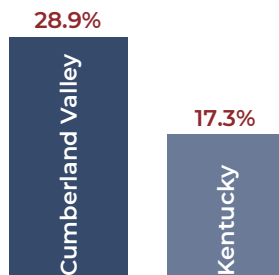
17%
over 64

6%
uninsured

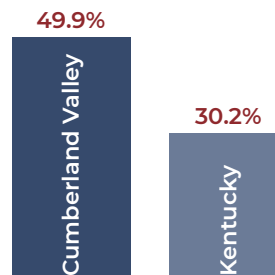
Median Income



Below Poverty



On Medicaid



People Lacking Access



53%
to healthy foods

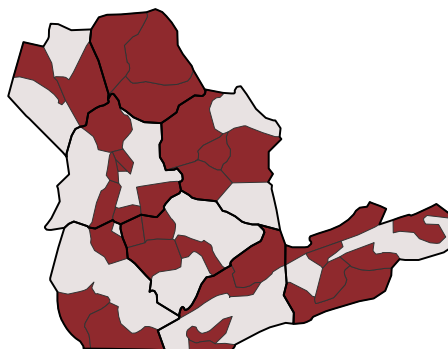


35%
to parks and gyms



23%
to internet devices

Areas Lacking Access to Healthy Foods



Healthcare System



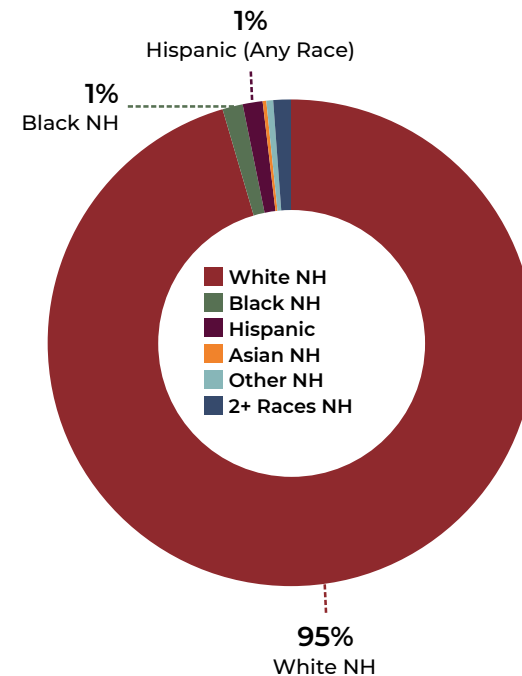
9 Hospitals

57 Rural Health Clinics

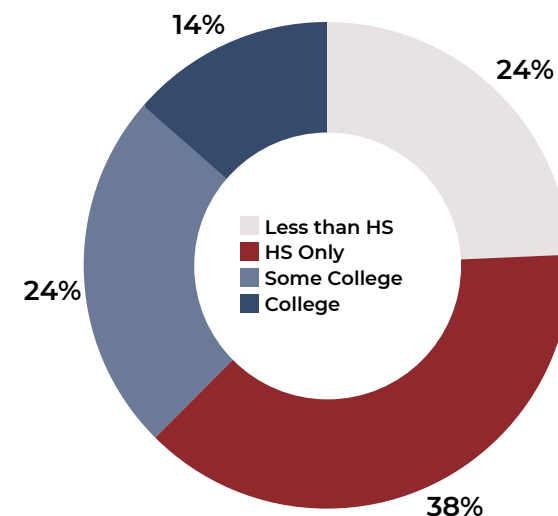
56 Federally-Qualified Health Centers

3 Geographic Health Professional Shortage Areas

Race and Ethnicity



Education Completed



College Graduation in KY: 24%

Cancer-related Outcomes

Cancer Risk Factors



25%
currently
smoke



74%
unhealthy
weight



57%
physically
inactive



9%
unhealthy
drinking

Screening Rates & Late-Stage Diagnosis



16%
lung
screen

5th of 15 ADDs

82%
late stage

15th of 15 ADDs



71%
breast
screen

14th of 15 ADDs

31%
late stage

15th of 15 ADDs



70%
colorectal
screen

7th of 15 ADDs

45%
late stage

14th of 15 ADDs



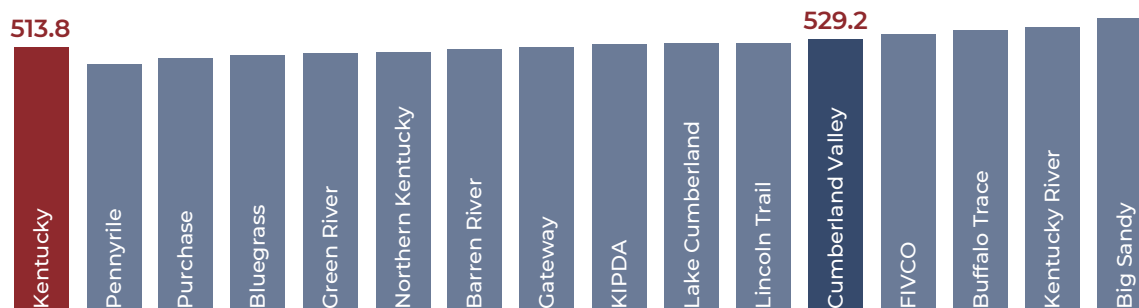
73%
Pap
screen

12th of 15 ADDs

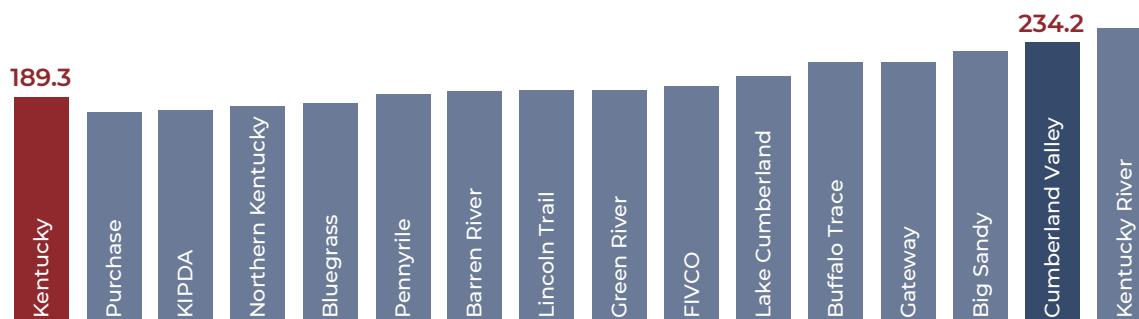
46%
late stage

9th of 15 ADDs

All Cancer Site Incidence (US rate: 438.3)



All Cancer Site Mortality (US rate: 147.5)



Top 5 Incidence Rates

Cancer Site	of 15 ADDs	Rate/100k
Female Breast	4th	114.4
Lung & Bronchus	13th	112.3
Prostate	2nd	83.8
Endometrium	10th	32.4
Melanoma	2nd	24.5

Top 5 Mortality Rates

Cancer Site	of 15 ADDs	Rate/100k
Lung & Bronchus	14th	86.2
Female Breast	13th	23.9
Prostate	10th	20.0
Colon & Rectum	11th	18.8
Pancreas	10th	11.6

Rates are age adjusted per 100k residents

For ranking "of 15 ADDs":
1st indicates best, 15th indicates worst

visit www.KYCancerNeeds.org
for more resources



Population
133,577

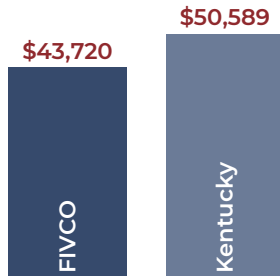
Annual New
Cancer Cases
978

Social Determinants of Health

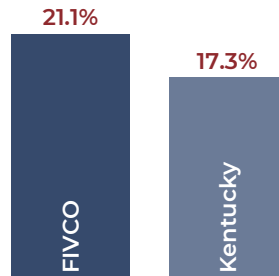


50% female | **22%** under 18 | **19%** over 64 | **6%** uninsured

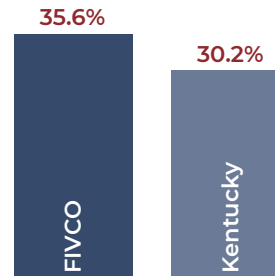
Median Income



Below Poverty



On Medicaid



People Lacking Access



17%
to healthy foods

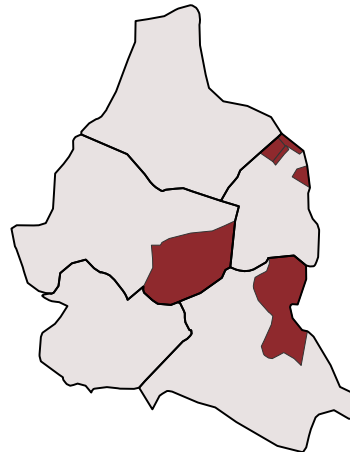


35%
to parks and gyms



17%
to internet devices

Areas Lacking Access to Healthy Foods

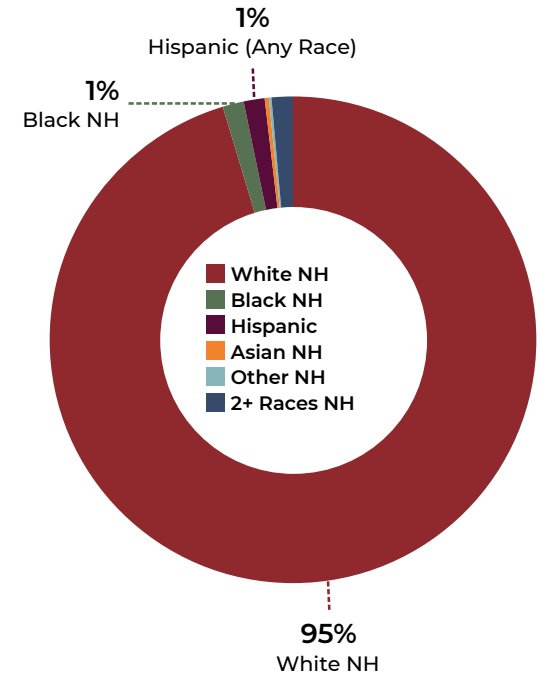


Healthcare System

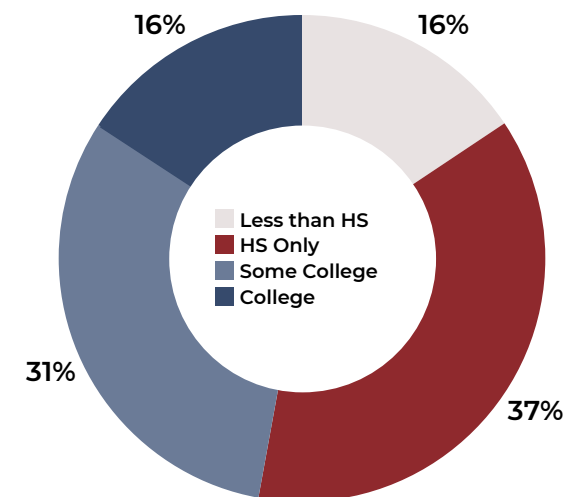


2 Hospitals | **3** Rural Health Clinics
6 Federally-Qualified Health Centers
0 Geographic Health Professional Shortage Areas

Race and Ethnicity



Education Completed



College Graduation in KY: 24%

Cancer-related Outcomes

Cancer Risk Factors



28%
currently
smoke



72%
unhealthy
weight



59%
physically
inactive



11%
unhealthy
drinking

Screening Rates & Late-Stage Diagnosis



13%
lung
screen

9th of 15 ADDs

77%
late stage

7th of 15 ADDs



79%
breast
screen

5th of 15 ADDs

26%
late stage

8th of 15 ADDs



74%
colorectal
screen

2nd of 15 ADDs

40%
late stage

4th of 15 ADDs



70%
Pap
screen

15th of 15 ADDs

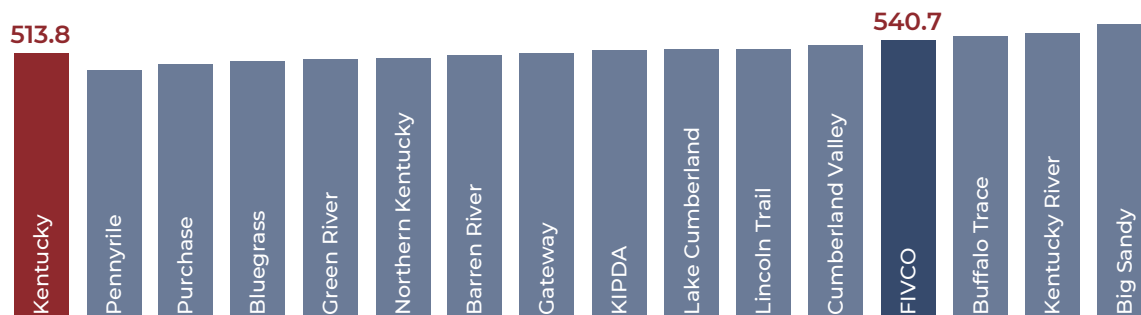
31%
late stage

1st of 15 ADDs

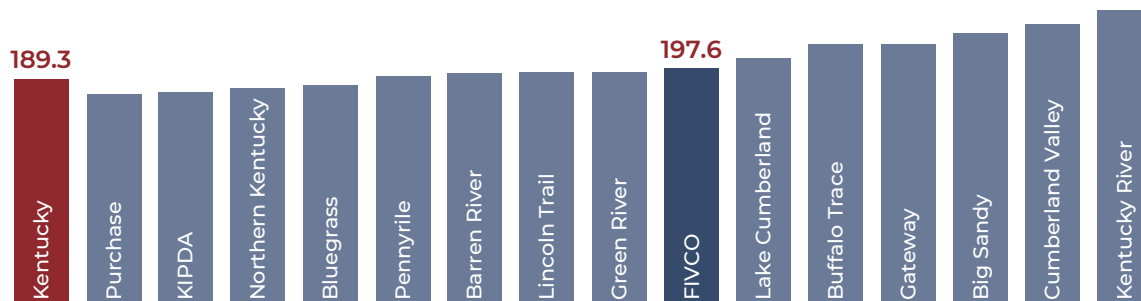
Top 5 Incidence Rates

Cancer Site	of 15 ADDs	Rate/100k
Female Breast	8th	118.3
Prostate	10th	102.7
Lung & Bronchus	10th	95.3
Endometrium	11th	32.9
Melanoma	7th	27.6

All Cancer Site Incidence (US rate: 438.3)



All Cancer Site Mortality (US rate: 147.5)



Top 5 Mortality Rates

Cancer Site	of 15 ADDs	Rate/100k
Lung & Bronchus	8th	64.9
Female Breast	12th	21.9
Prostate	6th	18.6
Colon & Rectum	8th	18.0
Pancreas	5th	10.8

Rates are age adjusted per 100k residents

For ranking "of 15 ADDs":
1st indicates best, 15th indicates worst

visit www.KYCancerNeeds.org
for more resources

Population
84,477

Annual New
Cancer Cases
509

Social Determinants of Health



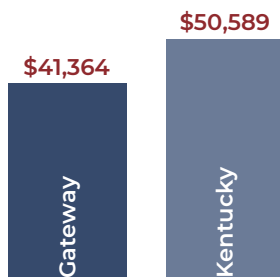
50%
female

22%
under 18

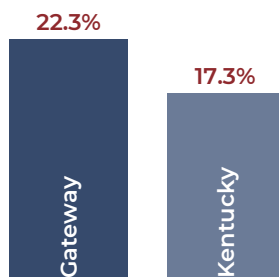
16%
over 64

6%
uninsured

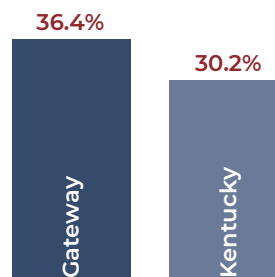
Median Income



Below Poverty



On Medicaid



People Lacking Access



45%
to healthy foods

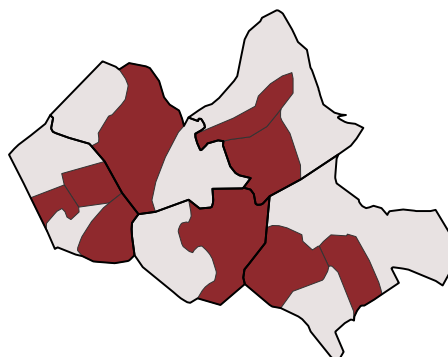


28%
to parks and gyms

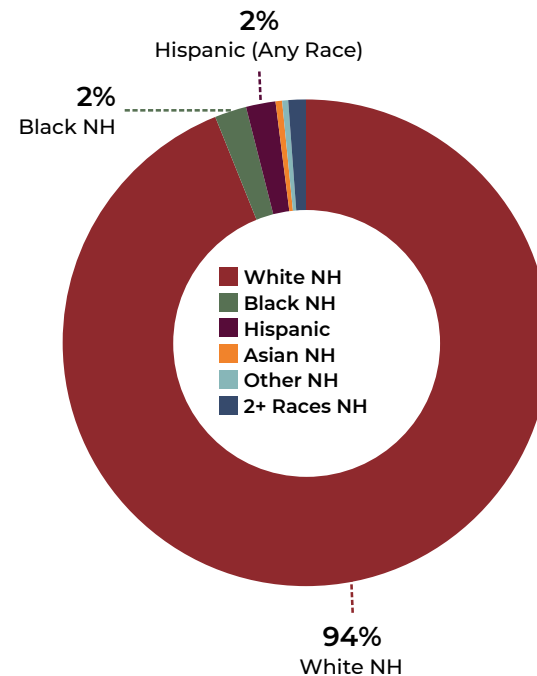


17%
to internet devices

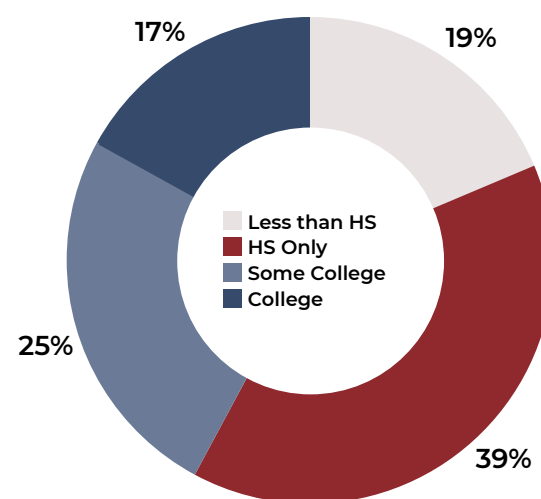
Areas Lacking Access to Healthy Foods



Race and Ethnicity



Education Completed



College Graduation in KY: 24%

Healthcare System



3 Hospitals

11 Rural Health Clinics

13 Federally-Qualified Health Centers

2 Geographic Health Professional Shortage Areas

Cancer-related Outcomes

Cancer Risk Factors



27%
currently
smoke



72%
unhealthy
weight



53%
physically
inactive



13%
unhealthy
drinking

Screening Rates & Late-Stage Diagnosis



8%
lung
screen

14th of 15 ADDs

79%
late stage

12th of 15 ADDs



73%
breast
screen

12th of 15 ADDs

28%
late stage

10th of 15 ADDs



63%
colorectal
screen

12th of 15 ADDs

43%
late stage

8th of 15 ADDs



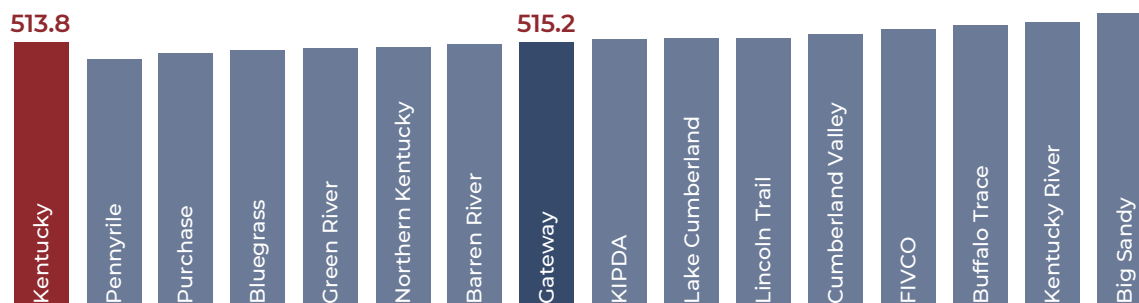
78%
Pap
screen

7th of 15 ADDs

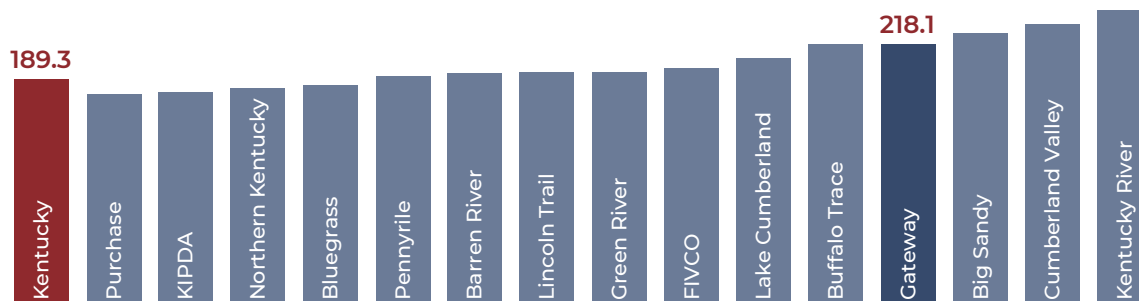
44%
late stage

7th of 15 ADDs

All Cancer Site Incidence (US rate: 438.3)



All Cancer Site Mortality (US rate: 147.5)



Top 5 Incidence Rates

Cancer Site	of 15 ADDs	Rate/100k
Female Breast	1st	106.3
Lung & Bronchus	12th	100.6
Prostate	1st	78.0
Endometrium	13th	34.9
Melanoma	6th	27.3

Top 5 Mortality Rates

Cancer Site	of 15 ADDs	Rate/100k
Lung & Bronchus	11th	76.6
Female Breast	15th	25.7
Colon & Rectum	9th	18.2
Prostate	2nd	17.5
Pancreas	15th	13.6

Rates are age adjusted per 100k residents

For ranking "of 15 ADDs":
1st indicates best, 15th indicates worst

visit www.KYCancerNeeds.org
for more resources

Population
105,969

Annual New
Cancer Cases
777

Social Determinants of Health



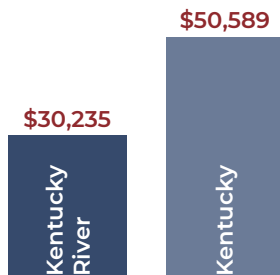
51%
female

21%
under 18

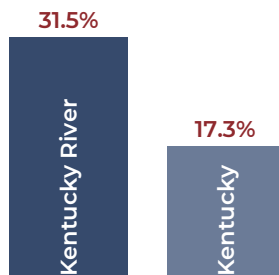
17%
over 64

5%
uninsured

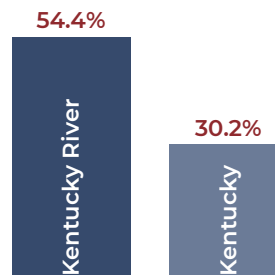
Median Income



Below Poverty



On Medicaid



People Lacking Access



62%
to healthy foods

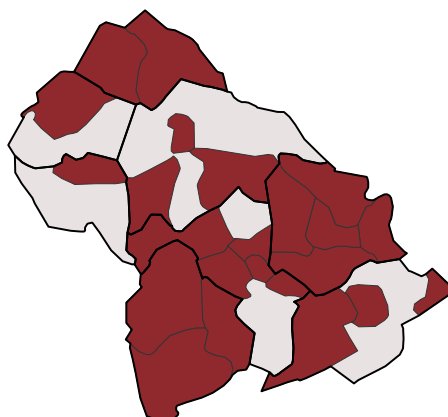


34%
to parks and gyms



23%
to internet devices

Areas Lacking Access to Healthy Foods



Healthcare System



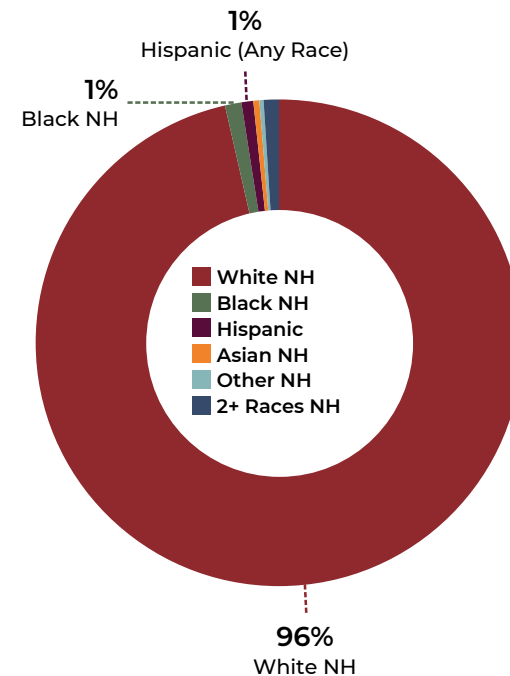
4 Hospitals

25 Rural Health Clinics

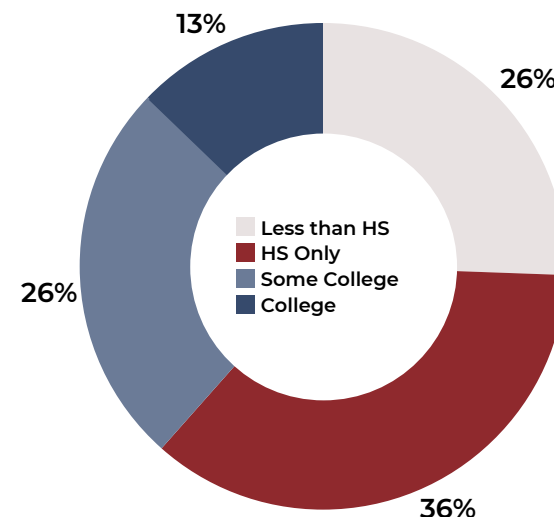
32 Federally-Qualified Health Centers

4 Geographic Health Professional Shortage Areas

Race and Ethnicity



Education Completed



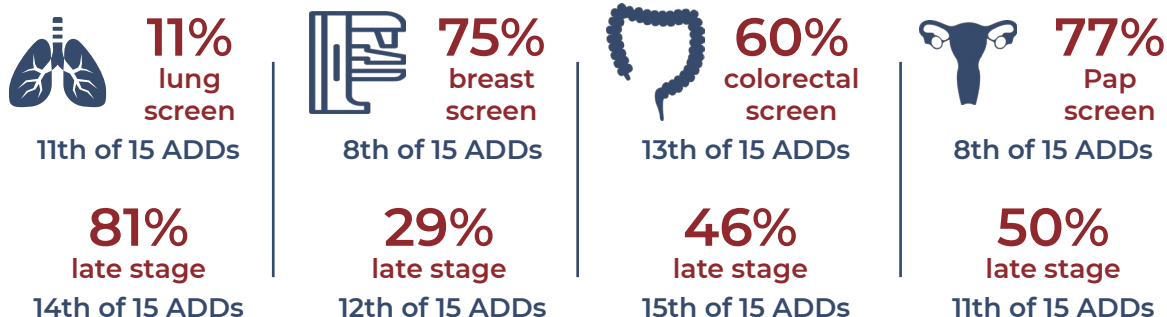
College Graduation in KY: 24%

Cancer-related Outcomes

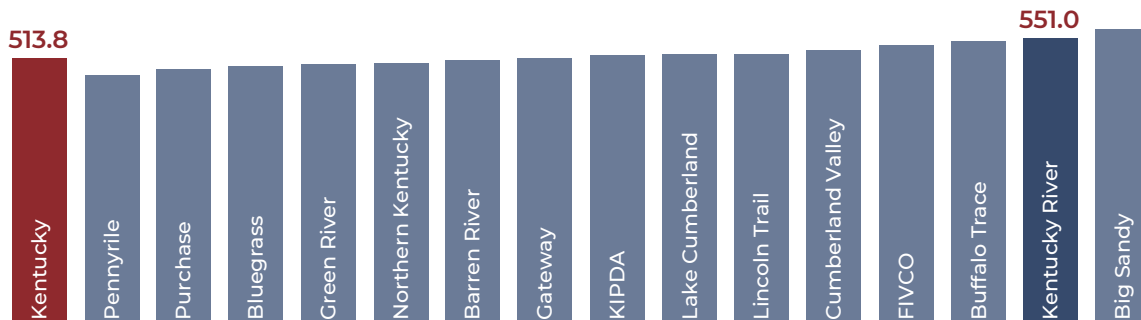
Cancer Risk Factors



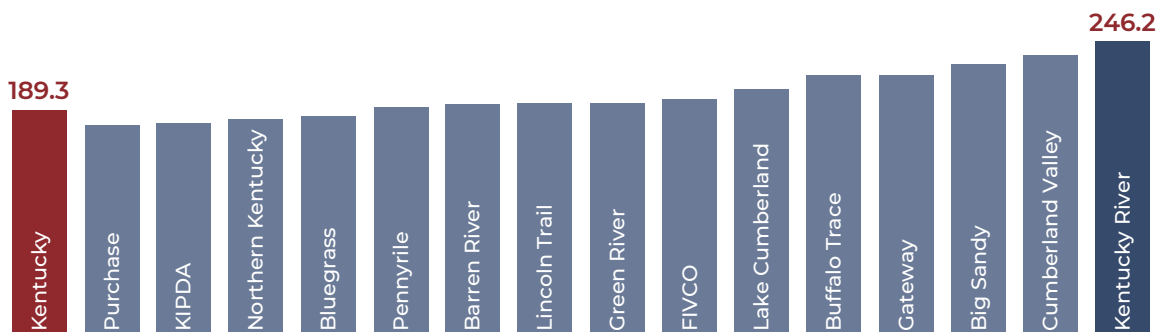
Screening Rates & Late-Stage Diagnosis



All Cancer Site Incidence (US rate: 438.3)



All Cancer Site Mortality (US rate: 147.5)



Top 5 Incidence Rates

Cancer Site	of 15 ADDs	Rate/100k
Lung & Bronchus	15th	116.8
Female Breast	5th	114.5
Prostate	3rd	84.9
Endometrium	12th	34.1
Melanoma	4th	24.8

Top 5 Mortality Rates

Cancer Site	of 15 ADDs	Rate/100k
Lung & Bronchus	15th	91.9
Prostate	15th	24.2
Female Breast	14th	24.1
Colon & Rectum	13th	20.0
Pancreas	14th	12.8

Rates are age adjusted per 100k residents

For ranking "of 15 ADDs":
1st indicates best, 15th indicates worst

visit www.KYCancerNeeds.org
for more resources

Population
208,686

Annual New
Cancer Cases
1,447

Social Determinants of Health



51%
female

22%
under 18

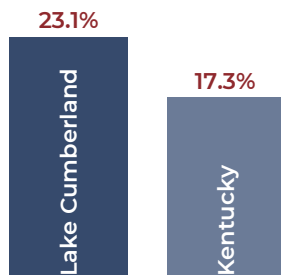
19%
over 64

7%
uninsured

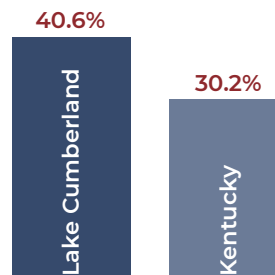
Median Income



Below Poverty



On Medicaid



People Lacking Access



39%
to healthy foods

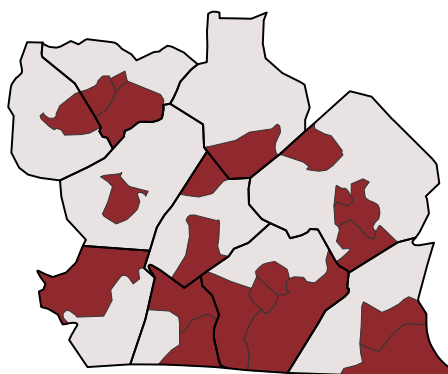


38%
to parks and gyms

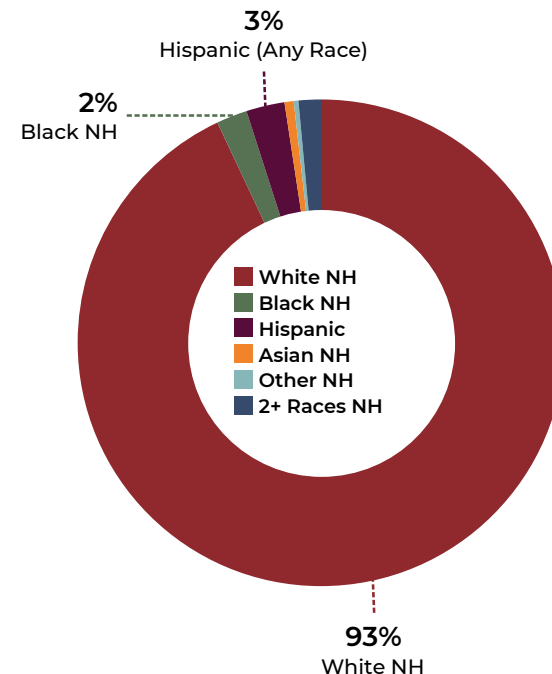


22%
to internet devices

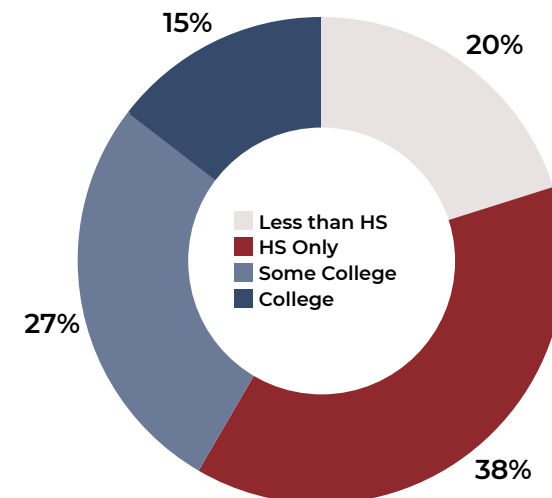
Areas Lacking Access to Healthy Foods



Race and Ethnicity



Education Completed



College Graduation in KY: 24%

Healthcare System



9 Hospitals

32 Rural Health Clinics

51 Federally-Qualified Health Centers

4 Geographic Health Professional Shortage Areas

Cancer-related Outcomes

Cancer Risk Factors



24%
currently
smoke



71%
unhealthy
weight



62%
physically
inactive



10%
unhealthy
drinking

Screening Rates & Late-Stage Diagnosis



13%
lung
screen

7th of 15 ADDs

79%
late stage

13th of 15 ADDs



69%
breast
screen

15th of 15 ADDs

26%
late stage

6th of 15 ADDs



55%
colorectal
screen

15th of 15 ADDs

44%
late stage

12th of 15 ADDs



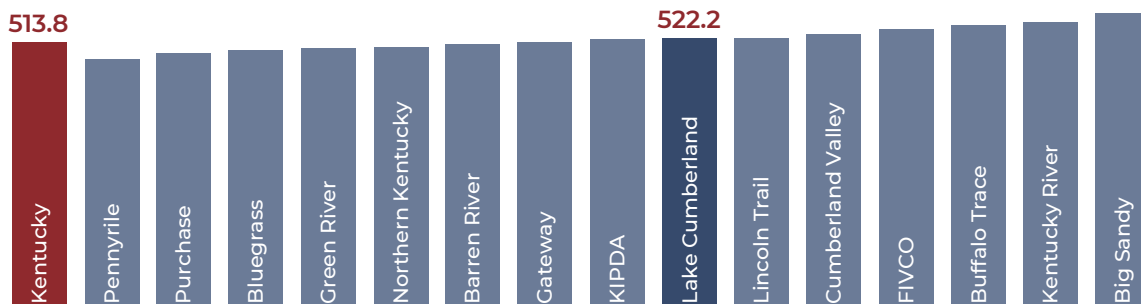
72%
Pap
screen

13th of 15 ADDs

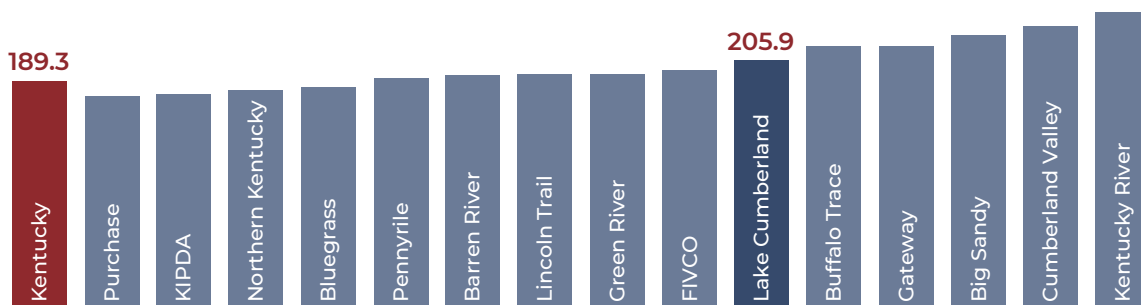
58%
late stage

14th of 15 ADDs

All Cancer Site Incidence (US rate: 438.3)



All Cancer Site Mortality (US rate: 147.5)



Top 5 Incidence Rates

Cancer Site	of 15 ADDs	Rate/100k
Female Breast	7th	115.2
Prostate	5th	95.2
Lung & Bronchus	9th	94.6
Melanoma	9th	28.6
Endometrium	6th	27.7

Top 5 Mortality Rates

Cancer Site	of 15 ADDs	Rate/100k
Lung & Bronchus	10th	70.8
Female Breast	8th	21.1
Colon & Rectum	12th	19.7
Prostate	4th	18.1
Pancreas	1st	9.1

Rates are age adjusted per 100k residents

For ranking "of 15 ADDs":
1st indicates best, 15th indicates worst

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for more resources

Population
459,076

Annual New
Cancer Cases
2,577

Social Determinants of Health



50%
female

24%
under 18

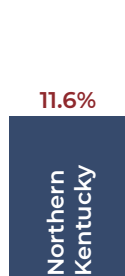
14%
over 64

5%
uninsured

Median Income



Below Poverty



On Medicaid



People Lacking Access



14%
to healthy foods

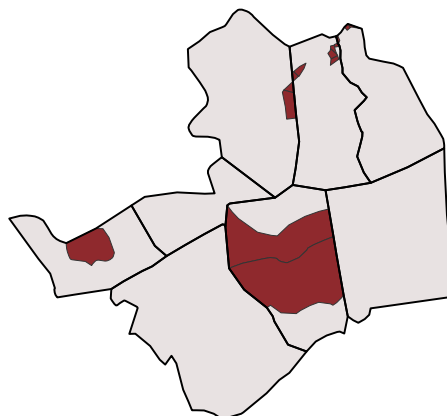


16%
to parks and gyms

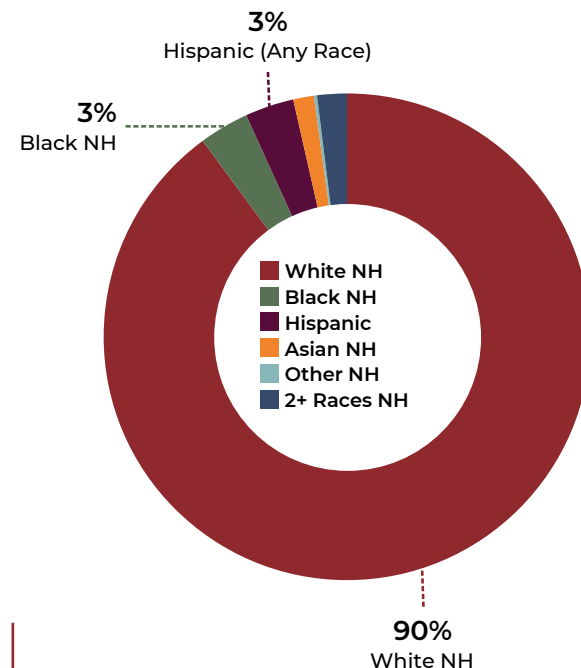


9%
to internet devices

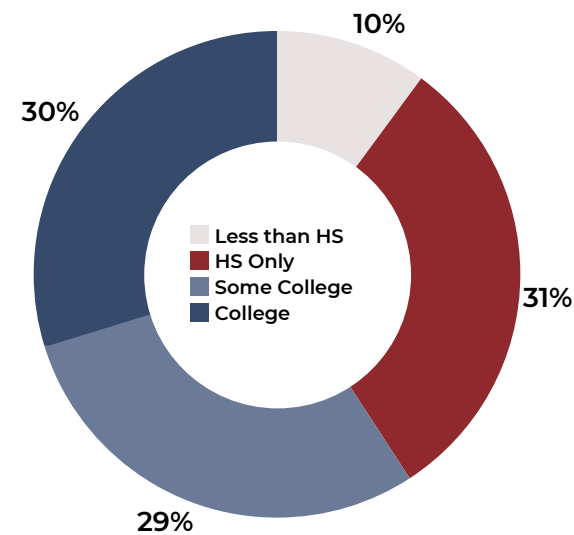
Areas Lacking Access to Healthy Foods



Race and Ethnicity



Education Completed



College Graduation in KY: 24%

Healthcare System



9 Hospitals

2 Rural Health Clinics

10 Federally-Qualified Health Centers

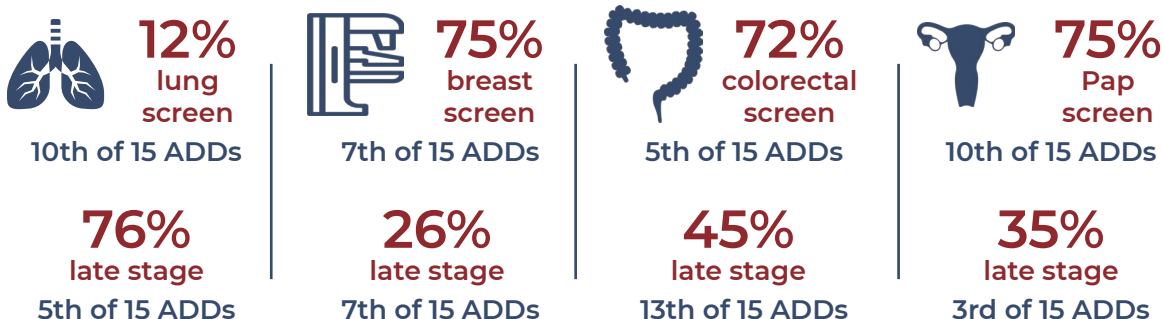
1 Geographic Health Professional Shortage Areas

Cancer-related Outcomes

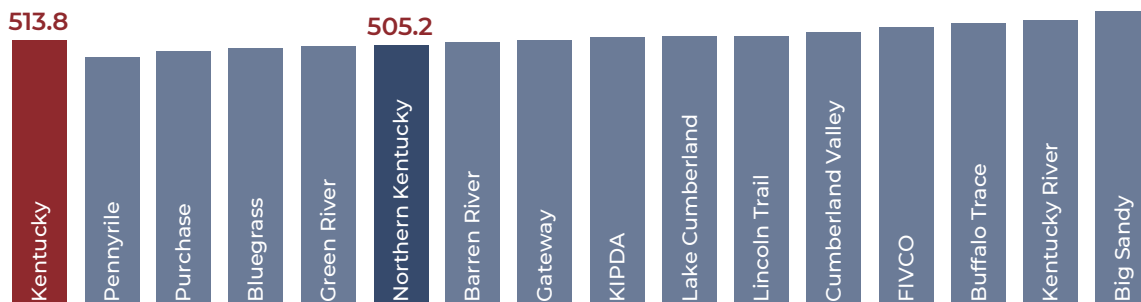
Cancer Risk Factors



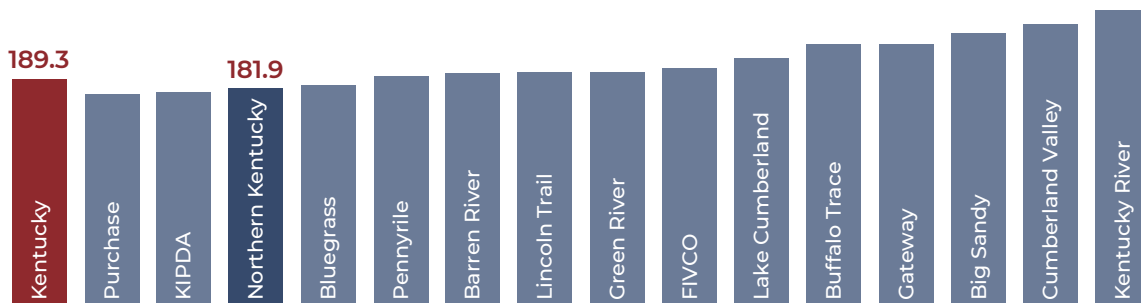
Screening Rates & Late-Stage Diagnosis



All Cancer Site Incidence (US rate: 438.3)



All Cancer Site Mortality (US rate: 147.5)



Top 5 Incidence Rates

Cancer Site	of 15 ADDs	Rate/100k
Female Breast	12th	132.8
Prostate	4th	94.6
Lung & Bronchus	4th	85.1
Endometrium	9th	30.0
Melanoma	12th	29.1

Top 5 Mortality Rates

Cancer Site	of 15 ADDs	Rate/100k
Lung & Bronchus	3rd	56.6
Female Breast	7th	21.1
Prostate	13th	21.0
Colon & Rectum	6th	16.0
Pancreas	6th	10.8

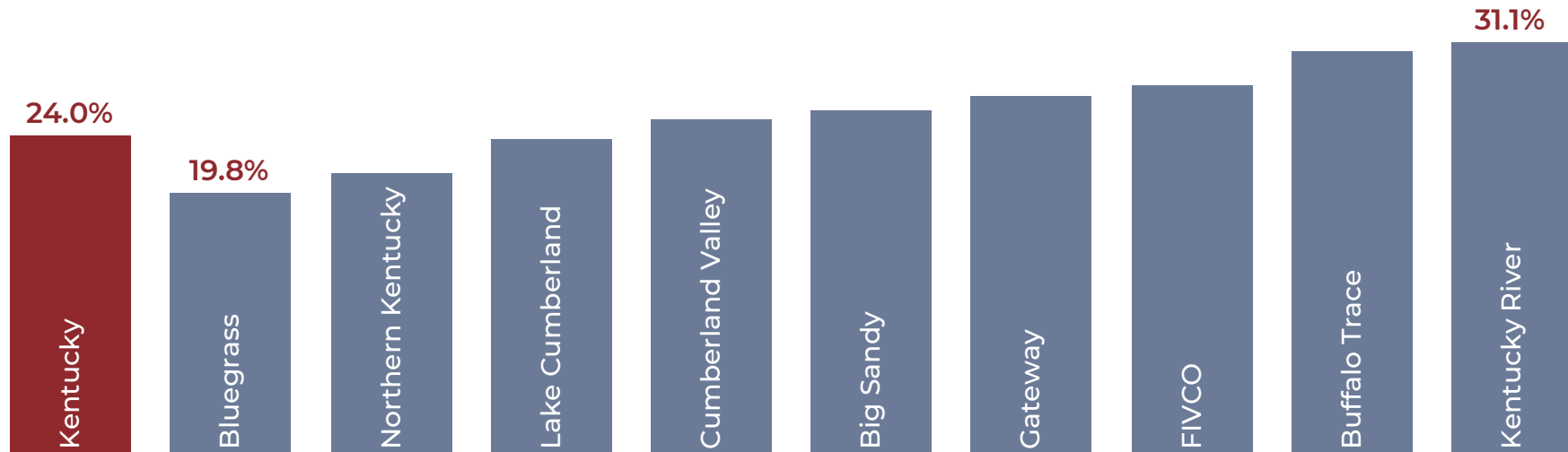
Rates are age adjusted per 100k residents

For ranking "of 15 ADDs":
1st indicates best, 15th indicates worst

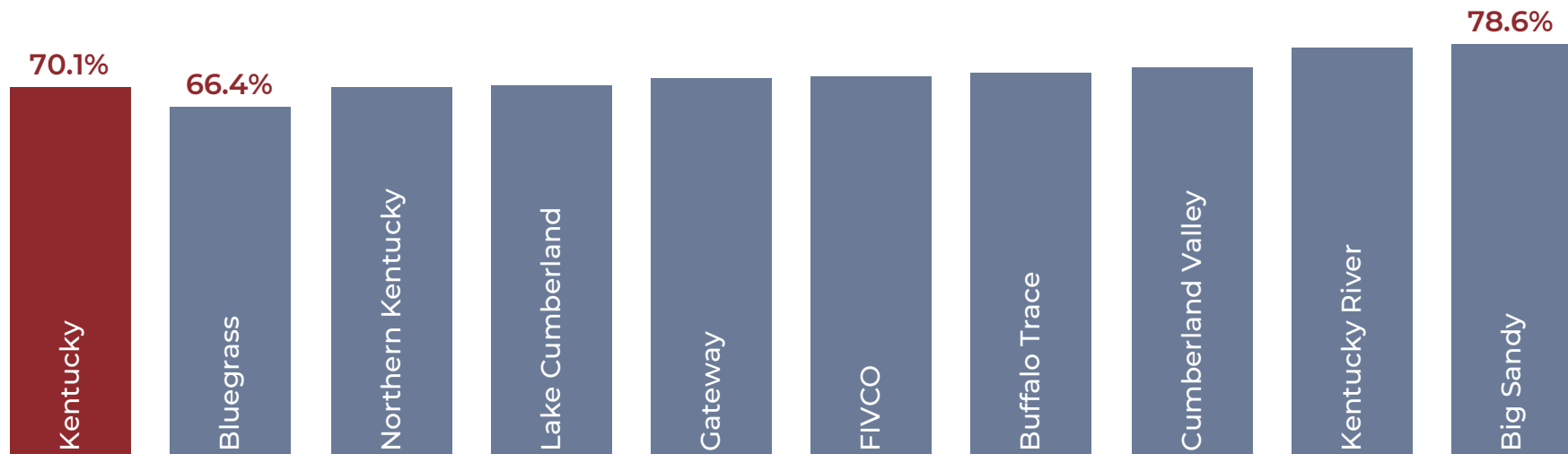
visit www.KYCancerNeeds.org
for more resources

BEHAVIORAL RISK FACTOR COMPARISONS

Currently Smoke Comparison (US rate: 15.3%)



Unhealthy Weight Comparison (US rate: 66.2%)

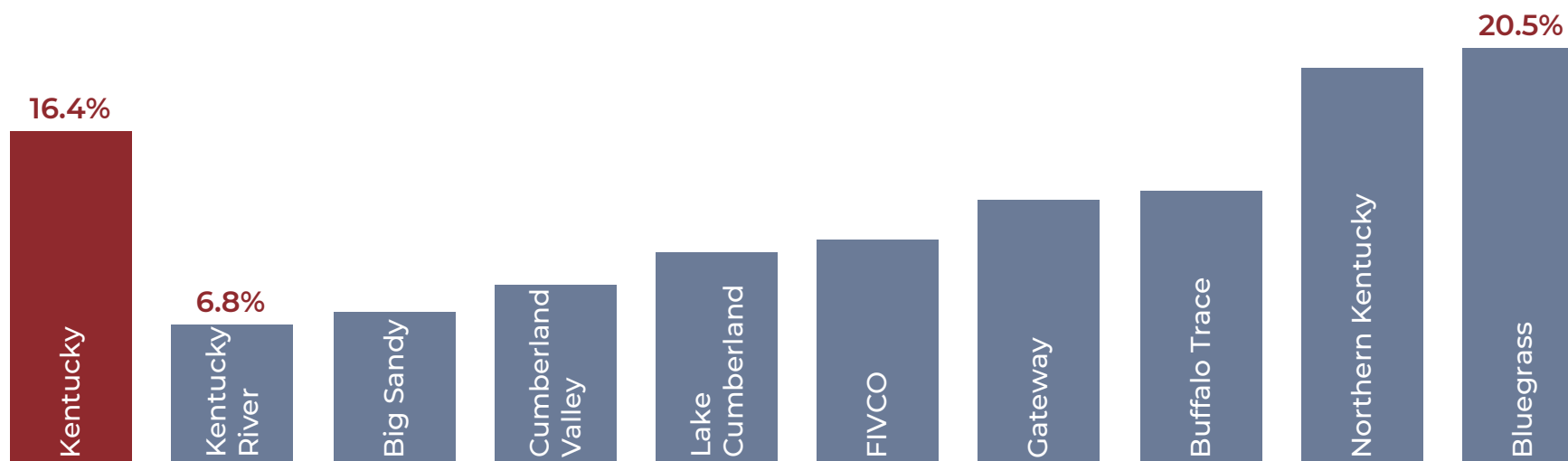


BEHAVIORAL RISK FACTOR COMPARISONS

Physically Inactive Comparison (US rate: 29.5%)



Unhealthy Drinking Comparison (US rate: 18.1%)



ACKNOWLEDGEMENTS

Kentucky Cancer Needs Assessment Steering Committee:

University of Kentucky, Markey Cancer Center,
Community Impact Office (CIO)
Pamela Hull, Lovoria Williams, Caree McAfee, Todd Burus,
Natalie Wilhite, Jessica Thompson

Kentucky Cancer Registry (KCR), UK Markey
Bin Huang, Jaclyn McDowell

Kentucky Cancer Consortium (KCC), UK Markey
Jennifer Redmond Knight, Elaine Russell

Kentucky Cancer Program East (KCP-East), UK Markey
Mindy Rogers

KCP-West, University of Louisville
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Stephanie Boone

Additional Input and Assistance Provided By:

Kentucky Cancer Registry
Eric Durbin, Chaney Kieckbusch

UK Superfund Research Center (UKSRC)
Kelly Pennell, Anna Hoover

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