

LEADING CAUSES OF DEATH

∞ Morbidity* vs. Mortality** ∞

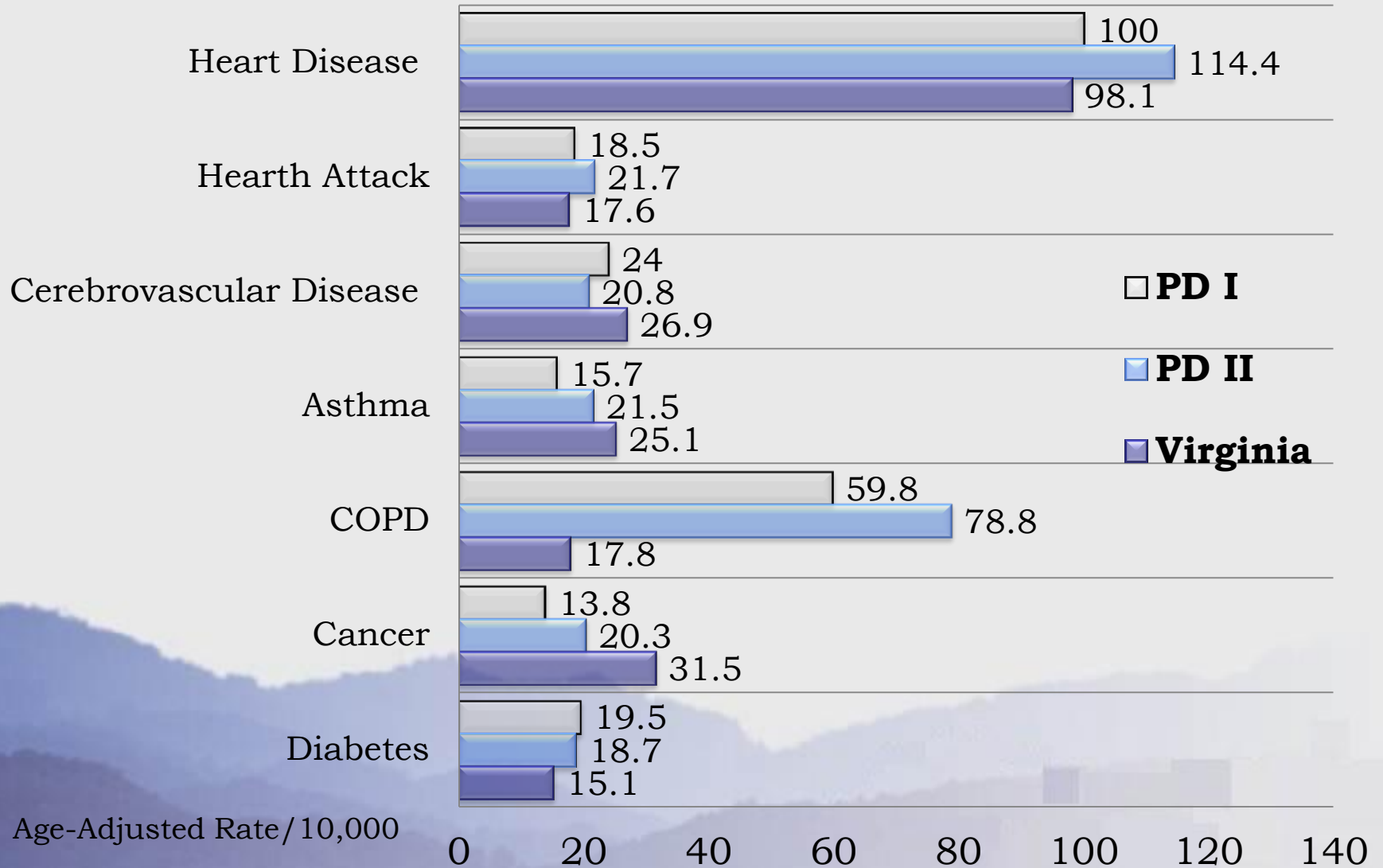
***Morbidity** refers to the incidence of disease or health condition (how many people per some number of people in a certain location over a certain period of time are diagnosed with that disease or health condition).

****Mortality** refers to death, a person who dies of a disease or health condition.

Morbidity Age-Adjusted Rate/10,000

	Lenowisco PD I	District Rank (out of 35)	Cumberland PD II	District Rank (out of 35)	Virginia
Heart Disease	100	15	114.4	24	98.1
Acute Myocardial Infarction (Heart Attack)	18.5	16	21.7	25	17.6
Cerebrovascular Disease (includes Stroke)	24	11	20.8	5	26.9
Asthma	15.7	27	21.5	33	25.1
Chronic Obstructive Pulmonary Disease	59.8	34	78.8	35	17.8
Cancer	13.8	1	20.3	4	31.5
Diabetes	19.5	25	18.7	24	15.1

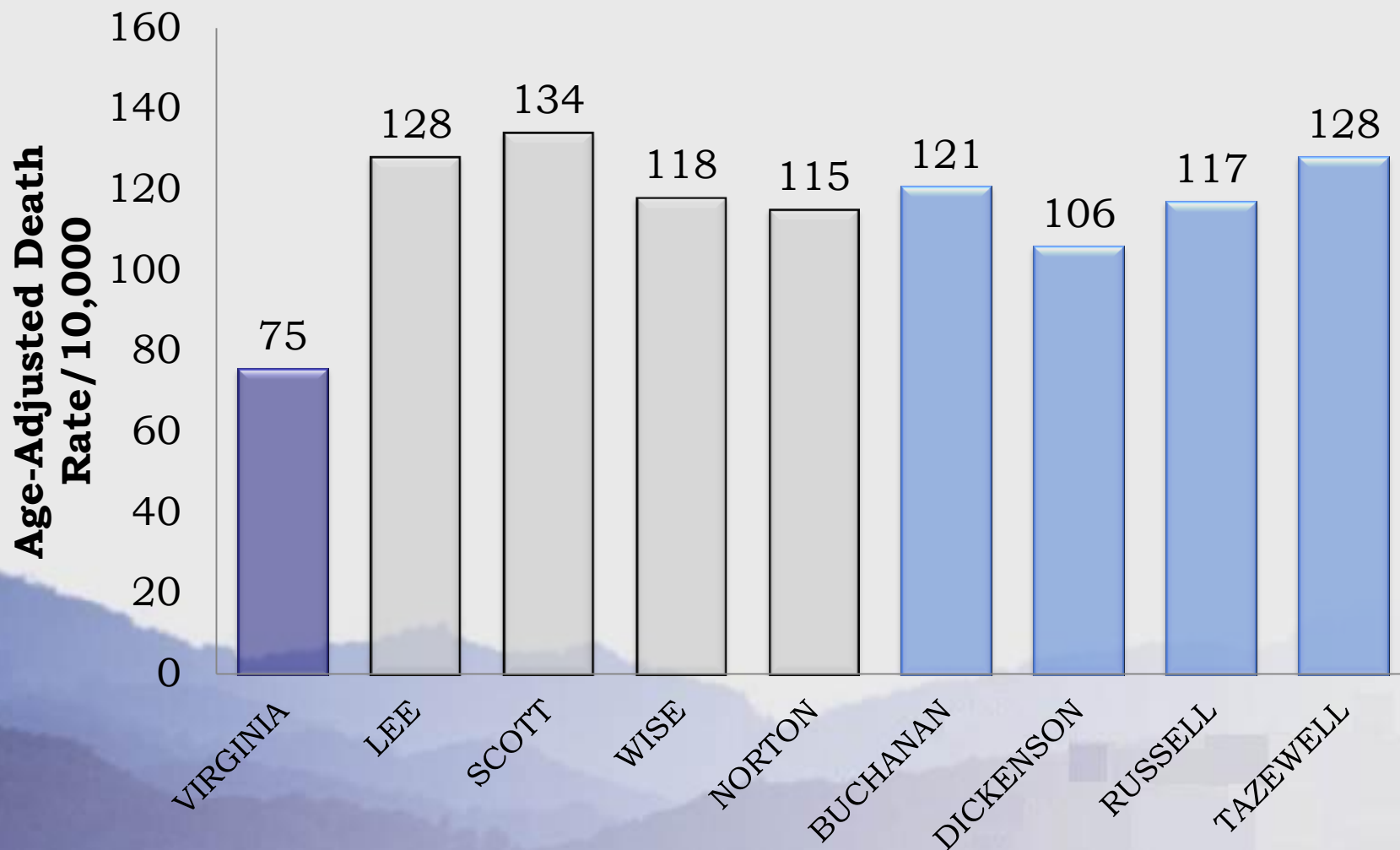
Morbidity Age-Adjusted Rate/ 10,000



Mortality Age-Adjusted Rate/ 100,000

	Lenowisco PD I	District Rank (out of 35)	Cumberland PD II	District Rank (out of 35)	Virginia
Ischemic Heart Disease	164.7	34	213.1	35	101.7
Cerebrovascular Disease	42.7	20	35.8	5	42
Chronic Obstructive Pulmonary Disease	69.8	33	76.6	34	38.5
Diabetes	33.6	28	35.9	29	21
Cancer	209.2	31	200.6	24	176.8
Lung Cancer	75.2	35	72.6	34	50.5

All Causes Mortality Rate Five Years Average (2004-2008)



Leading Cause of Death

	Causes of Death in Virginia	# of Deaths 2004-2008	%	Causes of Deaths in PD 1 and PD 2	# of Deaths 2004-2008	%
1	Diseases of the Heart	69,327	24.1%	Diseases of Heart	3,381	26.9%
2	Malignant Neoplasms	68,338	23.7%	Malignant Neoplasms	2,567	20.4%
3	Cerebrovascular Diseases	17,263	6.0%	Chronic Lower Respiratory Diseases	833	6.6%
4	Chronic Lower Respiratory Diseases	13,998	4.9%	Unintentional Injury	831	6.6%
5	Unintentional Injury	13,383	4.6%	Cerebrovascular Diseases	510	4.1%
6	Alzheimer's Disease	8,020	2.8%	Diabetes Mellitus	403	3.2%
7	Diabetes Mellitus	7,843	2.7%	Influenza and Pneumonia	325	2.6%
8	Nephritis and Nephrosis	6,854	2.4%	Alzheimer's Disease	248	2.0%
9	Influenza and Pneumonia	6,676	2.3%	Nephritis and Nephrosis	244	1.9%
10	Septicemia	6,372	2.2%	Septicemia	228	1.8%
11	Suicide	4,344	1.5%	Suicide	227	1.8%
12	Chronic Liver Disease	2887	1.0%	Chronic Liver Disease	158	1.3%

Heart Disease

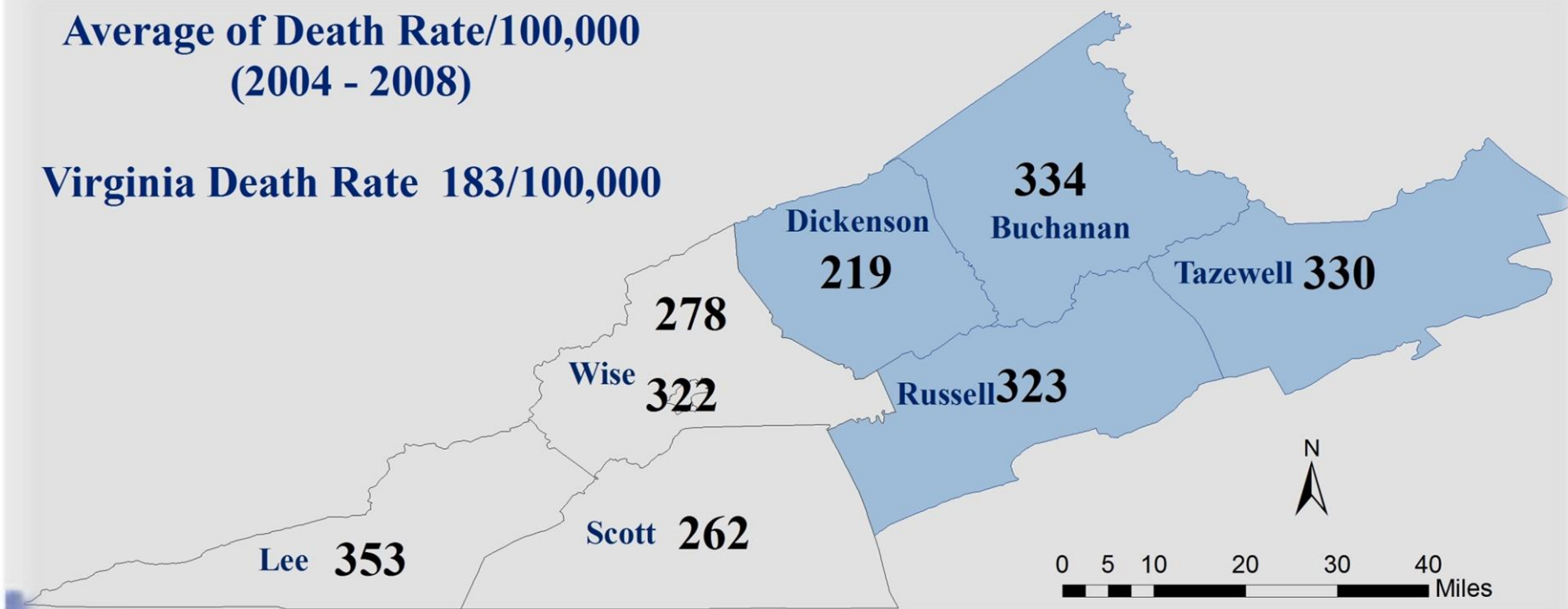
- From 2004 to 2008, there were 69,327 deaths due to Heart Disease in Virginia.
- Of these, 4.9% (3,381) of the deaths occurred in PD 1 and PD 2.
- The highest number of deaths occurred in Wise County (n=605) in PD 1 and Tazewell County (n=815) in PD 2.
- Death rates are almost twice the state rate, which can be seen in the age-adjusted death rate plotted in the following slide.

Heart Disease

Age-Adjusted Mortality Rate

Average of Death Rate/100,000
(2004 - 2008)

Virginia Death Rate 183/100,000



Average	Lee	Norton	Scott	Wise	Buchanan	Dickenson	Russell	Tazewell	Virginia
Age-Adjusted Death Rate/100,000	353	322	262	278	334	219	323	330	183
Number of Deaths per year	89	13	69	121	83	39	99	163	13,865

Malignant Neoplasms - Cancer

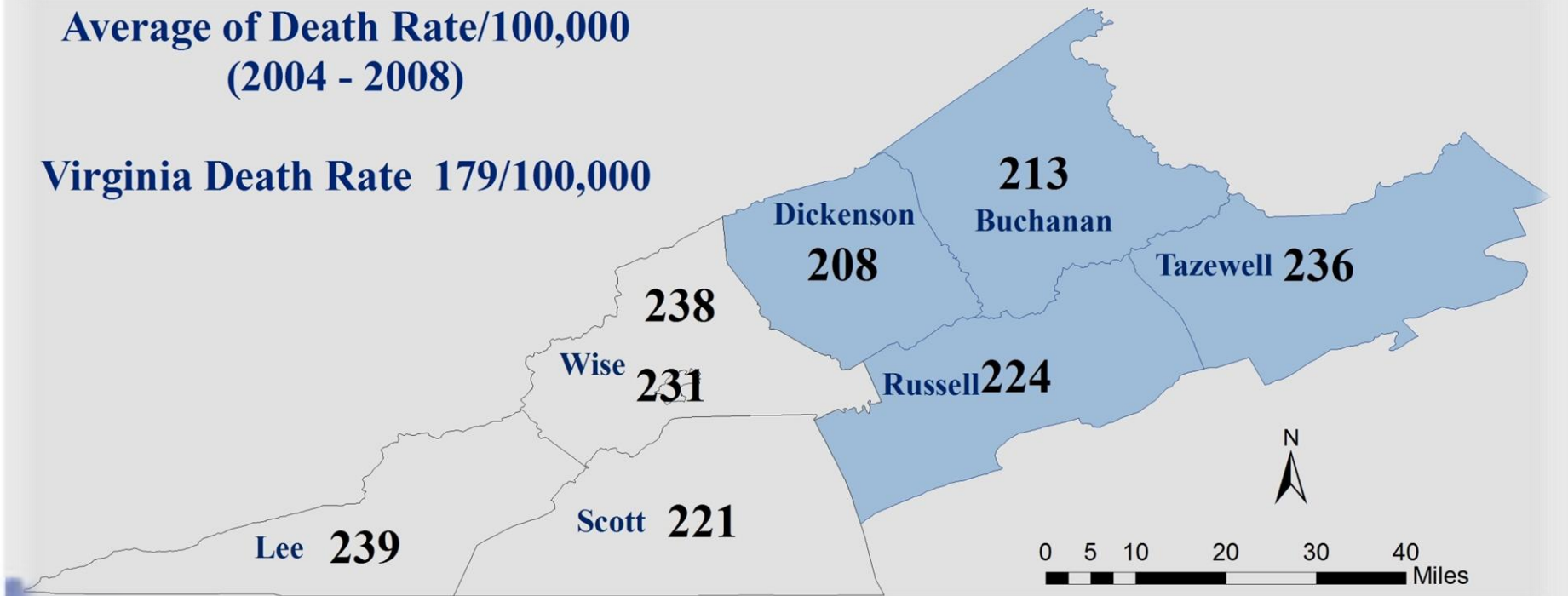
- ⌘ Almost half (47.7%) of the deaths in Virginia are due to Heart Disease (24%) and Malignant Neoplasms (Cancer) (23.7%).
- ⌘ From 2004 to 2008, 68,338 deaths were registered in Virginia due to cancer, from which 3.8% (2,567) of the deaths occurred in PD 1 and PD 2.
- ⌘ All age-adjusted death rates in PD 1 and 2 are higher than the overall state death rate.

Cancer-Malignant Neoplasms

Age-Adjusted Mortality Rate

Average of Death Rate/100,000
(2004 - 2008)

Virginia Death Rate 179/100,000



Average	Lee	Norton	Scott	Wise	Buchanan	Dickenson	Russell	Tazewell	Virginia
Age-Adjusted Death Rate/100,000	239	231	221	238	213	208	224	236	179
Number of Deaths per year	62	10	58	104	56	37	69	117	13,668

Chronic Lower Respiratory Disease

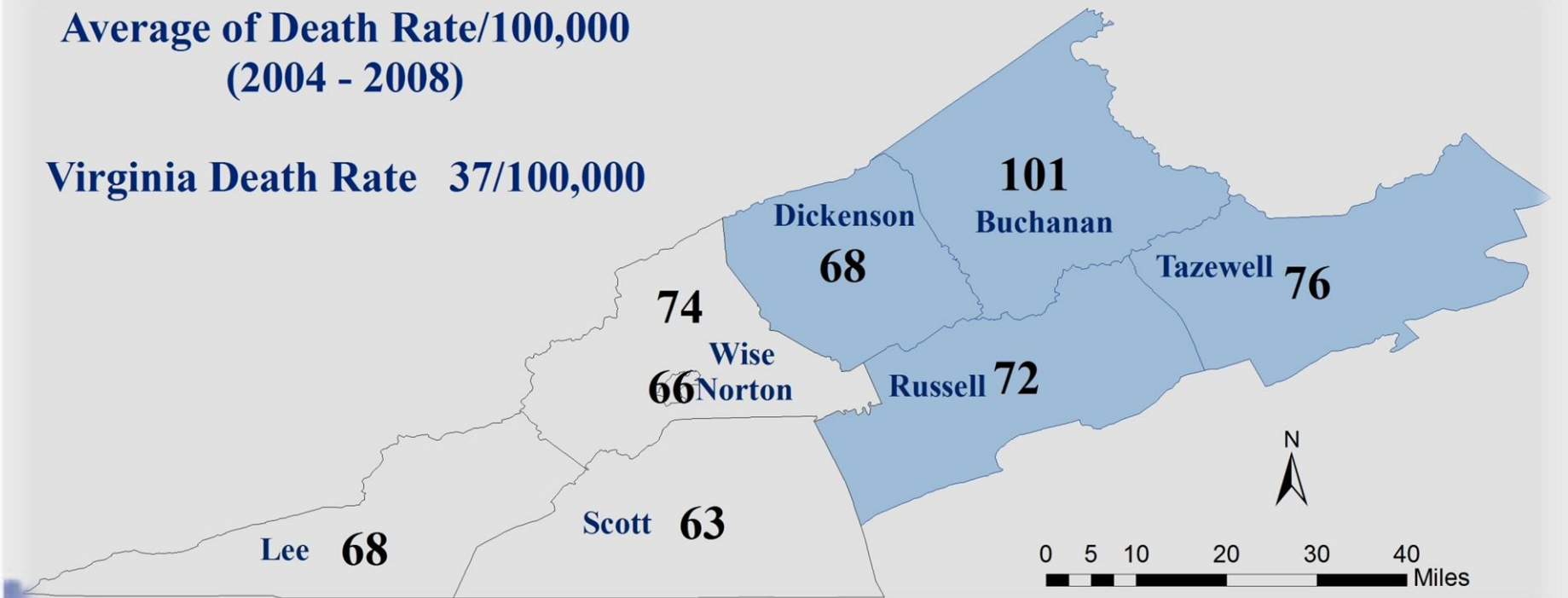
- ✎ In Virginia, Chronic Lower Respiratory Diseases are the 4th leading cause of death, causing 13,998 deaths in the last 5 years (2004-2008); 4.9% of the total deaths.
- ✎ In Planning Districts 1 and 2, these diseases are the 3rd leading cause of death, causing 833 deaths in same period of time; 6.6% of the total deaths in this area.
- ✎ Buchanan County has the highest age-adjusted death rate, which is 2.7 times the Virginia rate.

Chronic Lower Respiratory Diseases

Age-Adjusted Mortality Rate

Average of Death Rate/100,000
(2004 - 2008)

Virginia Death Rate 37/100,000



Average	Lee	Norton	Scott	Wise	Buchanan	Dickenson	Russell	Tazewell	Virginia
Age-Adjusted Death Rate/100,000	68	66	63	74	101	68	72	76	37
Number of Deaths per year	18	3	17	32	25	12	22	38	2,800

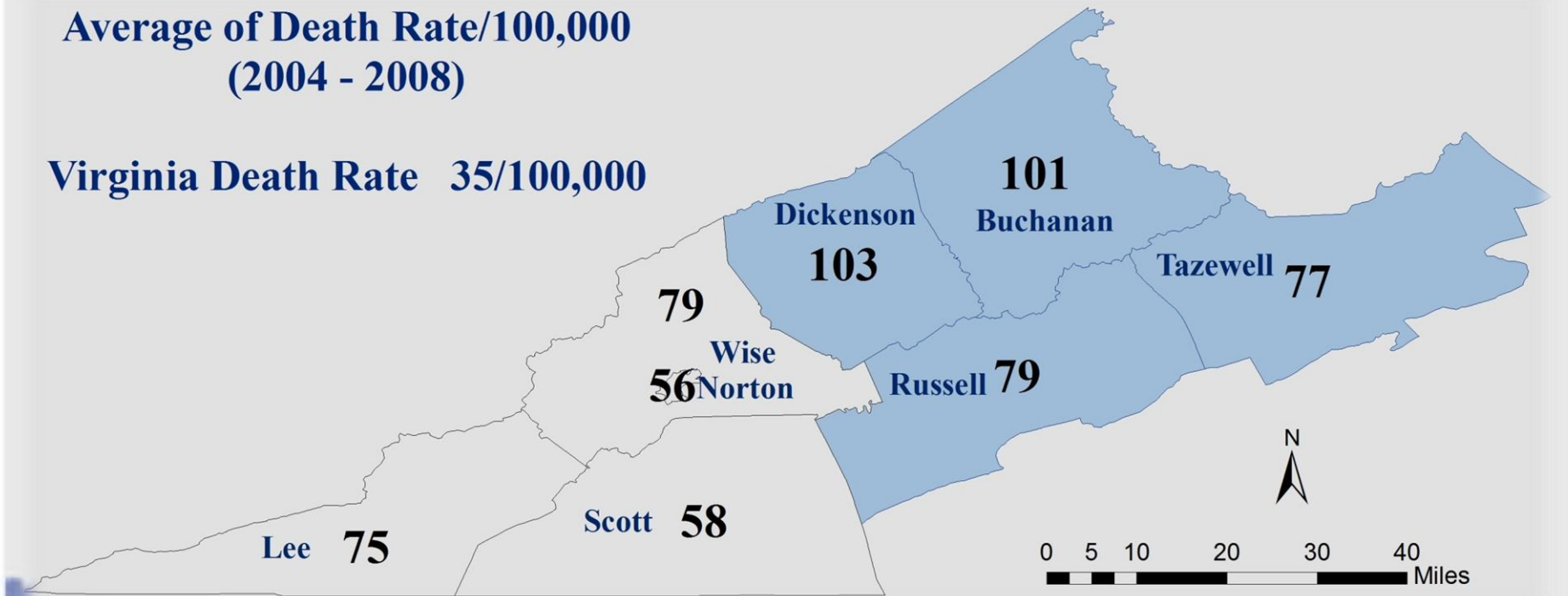
Unintentional Injury

- ☞ Unintentional injury is the 4th leading cause of death in SWVA and the 5th leading cause of death in Virginia.
- ☞ In PD 1 & 2 and Virginia, unintentional injury results in 831 (6.6%) and 13,383 (4.6%) of the deaths respectively.
- ☞ The age-adjusted death rate for all counties in PD 1 and 2 combined is almost 3 times the Virginia rate.

Unintentional Injury Age-Adjusted Mortality Rate

Average of Death Rate/100,000
(2004 - 2008)

Virginia Death Rate 35/100,000



Average	Lee	Norton	Scott	Wise	Buchanan	Dickenson	Russell	Tazewell	Virginia
Age-Adjusted Death Rate/100,000	75	56	58	79	101	103	79	77	35
Number of Deaths per year	18	2	14	33	25	17	23	34	2,677

Cerebrovascular Disease

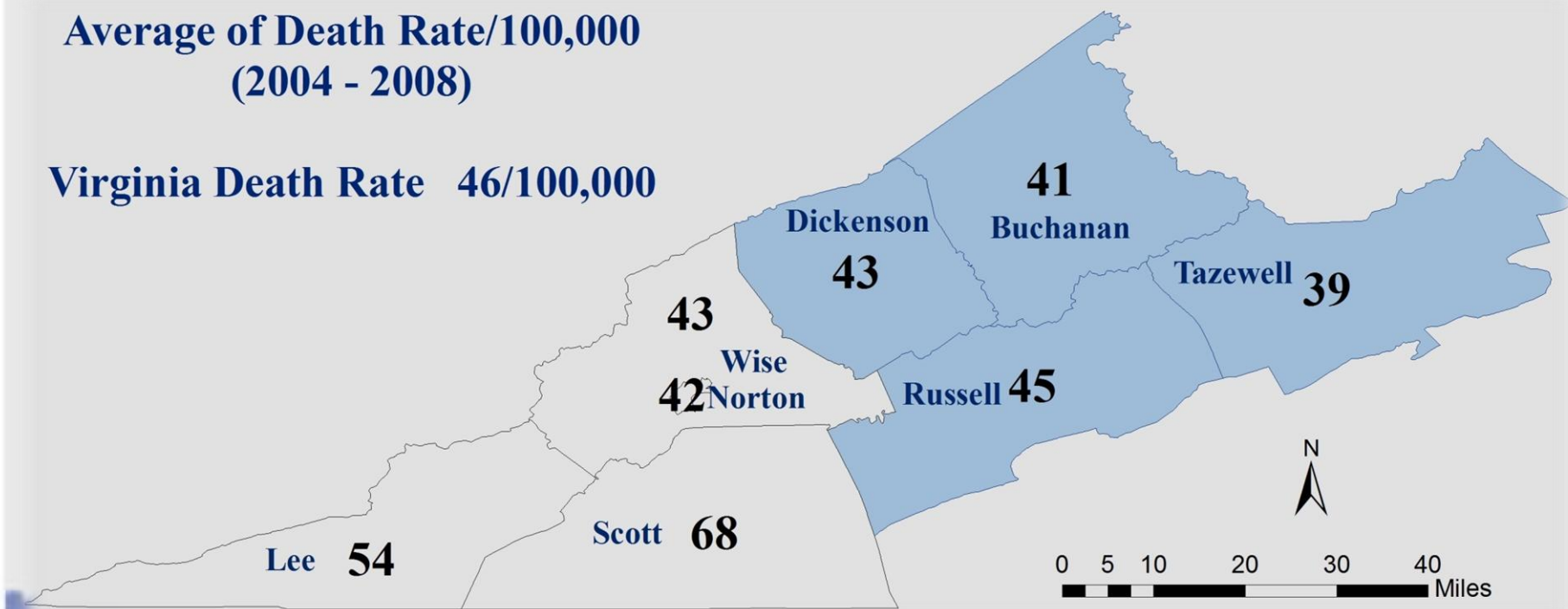
- ☞ Cerebrovascular disease is the 3rd leading cause of death in Virginia; 6% of all deaths or 17,863 deaths in VA over five years (2004-2008).
- ☞ In Planning Districts 1 and 2, cerebrovascular disease is the 5th leading cause of death; 4% of the total deaths or 510 health over the five year in same period.

Cerebrovascular Disease

Age-Adjusted Mortality Rate

Average of Death Rate/100,000
(2004 - 2008)

Virginia Death Rate 46/100,000



Average	Lee	Norton	Scott	Wise	Buchanan	Dickenson	Russell	Tazewell	Virginia
Age-Adjusted Death Rate/100,000	54	42	68	43	41	43	45	39	46
Number of Deaths per year	13	2	18	19	10	7	14	19	3,453

Diabetes Mellitus

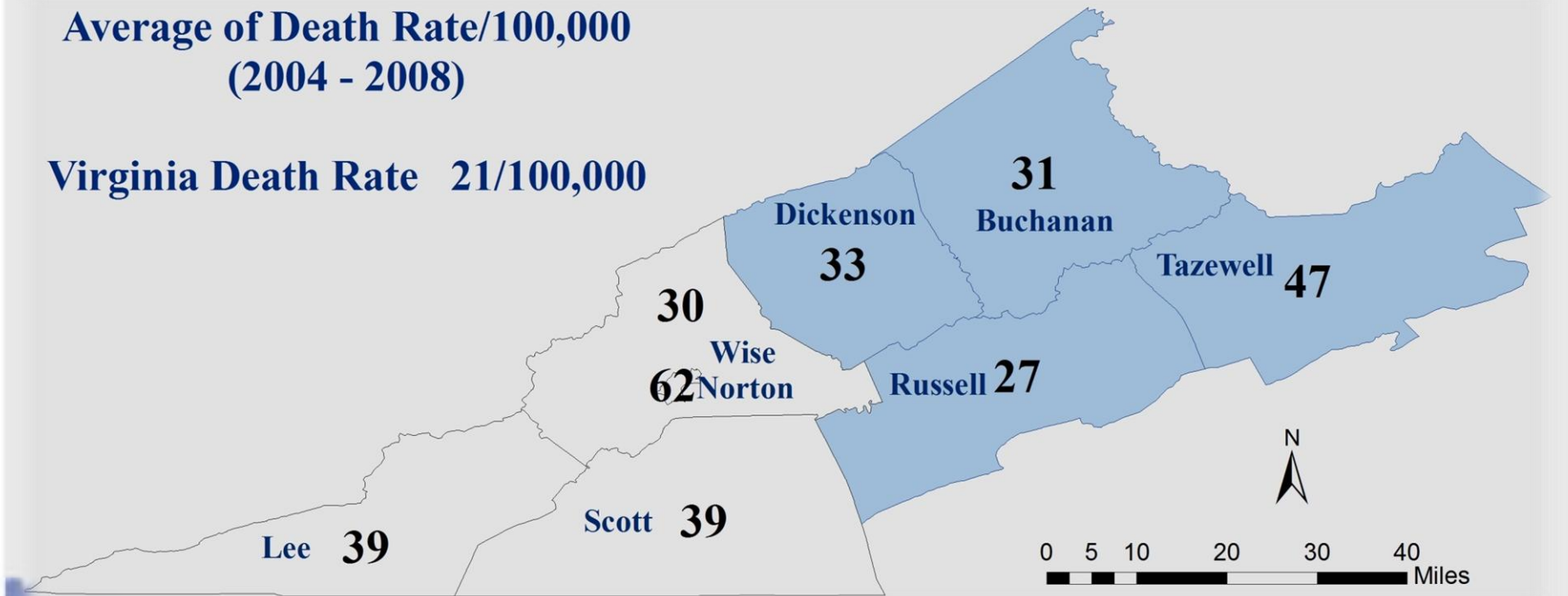
- ☞ Diabetes is the 6th leading cause of death in PD 1 and 2 and the 7th leading cause of death in VA.
- ☞ Diabetes was cited as the cause of 7,843 deaths in five years, of which 403 occurred in counties in PD 1 and PD 2.
- ☞ Age-adjusted death rates in SWVA counties range from 1.5 to 3 times the VA state rate.

Diabetes

Age-Adjusted Mortality Rate

Average of Death Rate/100,000
(2004 - 2008)

Virginia Death Rate 21/100,000



Average	Lee	Norton	Scott	Wise	Buchanan	Dickenson	Russell	Tazewell	Virginia
Age-Adjusted Death Rate/100,000	39	62	39	30	31	33	27	27	21
Number of Deaths per year	10	2	10	13	8	6	8	22	1,569