

Analysis of COVID-19 County Death(Fatality) Rates for the Southern Region of the United States

The 17 Southern States are
AL,AR,DC,DE,FL,GA,KY,LA,MD,
MS,NC,OK,SC,TN,TX,VA and WV

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Preliminary and Exploratory

Abstract

Logistic regression is performed using a binary response of county COVID-19 death rates (fatality rates) over 5% ($DR > 5$ deaths/cases). The binary response is regressed on six independent demographic variables.

Disclaimer

The views, results and information presented here are solely those of the author and do not purport to reflect the views, results or information of any institution or entity associated with the author.

At the time of this presentation the model has not been verified using the holdout sample.
Normally I would create two datasets, a training and a holdout sample. The holdout sample would be used to verify the model.

Agenda

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- Why a Five Percent Cutoff for Fatality Rate
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- Chi Square and Index Analysis of Numeric Variables(optimum recursive Binning)
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Caveats

This exploratory analysis was done to demonstrate algorithms and reports useful for predictive analytics.

I am not a medical writer or skilled clinician so the results should be taken with skepticism.

The independent variables were linearized using optimal recursive binning based on KS statistics.

Roger DeAngelis(US) and Clemens van Bunshot(Netherlands)

Dummification was not used because the target sample is only the 109 of the 1,422 counties in the southern region of US with COVID-ID death rates over 5%.

Buckets were restricted to three or less.

Variable coefficients were restricted to positive values.

Data

- 2015 Hospital Cost Report
- 2018 Skilled Nursing Facility Cost Reports
- 2018 American Community Survey Census Data
- October 10, 2020 Johns Hopkins COVID-19 Data

Why not Random Forest

Random forest tends to be more of a black box method. With some clinical experience and recent literature logistic regression can provide epidemiological insight.

Why a Five Percent Cutoff for Fatality Rate

Three to five percent fatality rates are quoted in the literature for the average US Death rate. see link below
ourworldindata.org/mortality-risk-covid%the-case-fatality-rate.

Model Independent Variables

STAB	State Abbreviations
Population	County Population(Lower Population Higher Risk)
PersonsPerRoomHigh	Crowding 1.5-6 Persons per Room
pctOver85	Percent of Population Over 85
pctNumHHFoodStmp	Percent of Population on Food Stamps
pctLivingAlone	Non-Family Households

Over 300 independent variables were analyzed.

Description of Model Independent Variables

see <https://www.census.gov/prod/cen2010/doc/sf1.pdf>

- States are placed in three bins based on DR>5
Lowest Risk Less than 2% DR>5
Highest Risk Greater than 12% DR>5
- Population
Highest Risk Less than 10,000
Lowest Risk Greater than 36,000
- PersonsPerRoomHigh <https://data.chhs.ca.gov/dataset/housing-crowding>
A form of residential overcrowding often for economic reasons
Lowest Risk Less than 1.5 Persons per room
Highest Risk 1.5 to 6 Persons per Room
- Percent Over 85 Years Old
Lowest Risk Less than 2 Percent
Highest Risk Greater than 2 Percent
- pctNumHHFoodStmp
Lowest Risk Less than 20 Percent
Highest Risk Greater than 20 Percent
- PctLivingAlone (see chapter 6 page 39 non-family households)
Lowest Risk Less than 80 Percent
Highest Risk Greater than 80 Percent

Findings

Overall Major Finding

The logistic model has the potential for risk assessment and can lead to lower mortality rates for COVID-19 victims.

Final Model Independent Variable Risk Assessment

- Counties in GA, MD, MS, TX, VA and VW are almost twice as likely to have death rate over 5%.
- Counties with populations under 11,000 are over twice as likely to have death rate over 5%.
- Counties with high level of crowding, persons per room over 1.5, are twice as likely to have death rate over 5%.
- Counties where over two percent of the population is over 85 40 percent more likely to have death rate over 5%.
- Counties with food stamp households are 80 percent more likely to have death rate over 5%.
- Non-Family Households, PctLivingAlone, are almost twice as likely to have death rate over 5%.
- West Virginia has the most counties with death rate over 5%

Findings Part 1 of 2

- Micropolitan rather than metropolitan areas are twice as likely to have death rate over 5%.
- Counties with over 50% black are almost twice as likely to have death rate over 5%.
- Counties with 1 or fewer hospitals are 10 times as likely as likely to have death rate over 5% (need to check).
- Counties with more than 17% disabled are approximately twice as likely to have death rate over 5%.
- Counties where the percent poor is over 17% are about twice as likely to have death rate over 5%.

Findings Part 2 of 2

- Counties with less than about 40 hospital beds are about three times as likely to have death rate over 5%.
- Counties with Per Capita Income under \$23,000 are about twice as likely to have death rate over 5%.
- Counties with less than 25% college graduates are about four times as likely to have death rate over 5%.
- Counties with 37% or more over 65 years of age are almost three times as likely to have death rate over 5%.
- Counties with median home value less than \$100,000 are about twice as likely to have death rate over 5%.

327 Bucketed Independent Variables

Independent
Variable

_NUMBER_OF_BEDS
_DISCHARGE_TOTAL
_PAYMENT_V_OTHER
_PAYMENT_XVIII_OTHER
_PAYMENT_XIX_OTHER
_POPULATION
_PCTBORNINCURRSTATE
_PCTMOVEDIN2010ORLATER
_PCTLIVINGALONE
_PCTNONHISPAMIND
_PCTFBNORTHAMERICA
_PCTBACHELORSORMORE
_PCTNONINSTOVER65
_PCTBACHELORS
_PCTHHSWITHELDERS
_PCTASIAN2
_PCTUNITS10_19
_MEDIANAGE
_PCTAGE75_84
_PCTHUSMORT
_PCTNUMHHSOCSEC
_AVGHHSUPPSECINC
_PCTINDIAN2
_POPULATION
_PCTASIAN1
_PCTBUILT2000_2009
_PCTNOCASHRENT
_PCTCIVLABFORCEFEMALES
_PCTONERACE
_PCTNATIVEENTEREDGE2000

Independent
Variable

_NUM_PRVDR
_BED_DAYS_AVAILABLE
_AVG_LOS
_PAYMENT_V_PPS
_PAYMENT_XVIII_PPS
_PAYMENT_XIX_PPS
_PERSONSPERROOMHIGH
_PCTBORNINDIFFSTATE
_PCTBUILT2010ORLATER
_MEDIANHVALUE
_PCTNUMHHEARNINGS
_PCTCOMPUTER
_AVGHVALUE
_PCTNONINSTUNDER65
_PCTWOMEN15TO19
_PCTLABORFORCE
_AVGHHINC
_PCTINDIAN1
_PCTUNITS20UP
_PCTAGE65_74
_PCTHUSNOMORT
_PCTOVER65ALONE
_PCTUNITS1ATTACHED
_PCTFBOCEANIA
_PCTAGE25_34
_PCTHIGH SCHOOL
_PCTOVER65MALES
_PCTUNPAIDFAMWORKERS
_AVGFAMINC
_PCTNUMHHSUPPSECINC

Independent
Variable

_NUMBER_OF_BEDS
_DISCHARGE_TOTAL
_PAYMENT_V_OTHER
_PAYMENT_XVIII_OTHER
_PAYMENT_XIX_OTHER
_POPULATION
_PCTBORNINCURRSTATE
_PCTMOVEDIN2010ORLATER
_PCTLIVINGALONE
_PCTNONHISPAMIND
_PCTFBNORTHAMERICA
_PCTBACHELORSORMORE
_PCTNONINSTOVER65
_PCTBACHELORS
_PCTHHSWITHELDERS
_PCTASIAN2
_PCTUNITS10_19
_MEDIANAGE
_PCTAGE75_84
_PCTHUSMORT
_PCTNUMHHSOCSEC
_AVGHHSUPPSECINC
_PCTINDIAN2
_POPULATION
_PCTASIAN1
_PCTBUILT2000_2009
_PCTNOCASHRENT
_PCTCIVLABFORCEFEMALES
_PCTONERACE
_PCTNATIVEENTEREDGE2000

327 Bucketed Independent Variables

Independent
Variable

_PCTHHINC200
_PCTWOMENGIVINGBIRTH
_PCTDISABLEDUNDER18
_PCTMOVEDIN1990_1999
_PCTHHINC150
_PCTUNITS5_9
_PCTCOUPLESWITHKIDS
_PCTPRIVATEINSURANCEONLYUNDER65
_PCTDISABLEDELDER
_AVGGROSSRENT
_PCTBUILT1950_1959
_PCTFBMINUSSEA
_PCTNUMHHRETINC
_PCTBORNOUTSIDEUS
_PAYMENT_XIX_NOT_APPLICABLE
_PCTAGE5_9
_PCTDIFFSTATE
_PCTGRANDPRNTSCARING3OR4
_PCTGRANDPRNTSCARING5ORMORE
_PCTHISPANICPOP
_PCTINHIGHSCHOOL
_PAYMENT_XVIII_PPS
_PCTCONSOCES
_PCTSOMECOLLEGE
_PCTNONHISPWHITE
_PCTPOORFAMILIES
_PCTNUMHHFOODSTMP
_PCTMILITARY
_PCTGRANDPRNTSCARING
_PCTWHITE1

Independent
Variable

_PCTHHINC0
_PCTHHINC15
_PCTFBEUROPE
_PCTCASHRENTROVER750
_PCTGRADPROF
_PCTOTHERCOMMUTE
_PCTENROLLEDOVER3
_PCTBUILT1960_1969
_PCTFBENTEREDGE2000
_PCTHVALOVERMILLION
_PCTOVER21
_PCTNATIVEENTEREDLT2000
_PCTFOREIGNBORN
_PCTUNITS3_4
_AVGHHEARNINGS
_PCTOCCHUS
_PCTBROADBANDINTERNET
_PCTPERSONSINOWNERUNITS
_PCTFBLATINAMERICA
_PCTFBASIA
_PCTNONHISPPOP
_PCTASSOCIATES
_PCTHHFNOFUEL
_PCTPOORUNDER18
_PCTHHINC75
_PCTPERSONSPERROOMHIGH
_PCTCIVILIAN
_PCTOVER85
_PCTFAMHHINC0
_PCI

Independent
Variable

_PCTHHINC200
_PCTWOMENGIVINGBIRTH
_PCTDISABLEDUNDER18
_PCTMOVEDIN1990_1999
_PCTHHINC150
_PCTUNITS5_9
_PCTCOUPLESWITHKIDS
_PCTPRIVATEINSURANCEONLYUNDER65
_PCTDISABLEDELDER
_AVGGROSSRENT
_PCTBUILT1950_1959
_PCTFBMINUSSEA
_PCTNUMHHRETINC
_PCTBORNOUTSIDEUS
_PAYMENT_XIX_NOT_APPLICABLE
_PCTAGE5_9
_PCTDIFFSTATE
_PCTGRANDPRNTSCARING3OR4
_PCTGRANDPRNTSCARING5ORMORE
_PCTHISPANICPOP
_PCTINHIGHSCHOOL
_PAYMENT_XVIII_PPS
_PCTCONSOCES
_PCTSOMECOLLEGE
_PCTNONHISPWHITE
_PCTPOORFAMILIES
_PCTNUMHHFOODSTMP
_PCTMILITARY
_PCTGRANDPRNTSCARING
_PCTWHITE1

327 Bucketed Independent Variables

Independent Variable	Independent Variable	Independent Variable
_PCTEDUC_HEALTH_SOCSVCS	_PCTHHFUTILGAS	_PCTEDUC_HEALTH_SOCSVCS
_PCTPOORINFAMILY	_PCTPOOR	_PCTPOORINFAMILY
_PCTWHITE2	_MEDIANGROSSRENT	_PCTWHITE2
_PCTWORKATHOME	_PCTHHFLPGAS	_PCTWORKATHOME
_PCTHHINC10	_PCTNONHISPHAWNPI	_PCTHHINC10
_PCTDIALUPINTERNET	_PCTAGE60_64	_PCTDIALUPINTERNET
_PCTBORNABROAD	_PCTNATURALIZED	_PCTBORNABROAD
_PCTHUSMORTOVER30PCT	_PCTBORNINUS	_PCTHUSMORTOVER30PCT
_PCTOVER18FEMALES	_PCTDISABLED18_64	_PCTOVER18FEMALES
_PCTFBAFRICA	_PCTHHSWITHKIDS	_PCTFBAFRICA
_PCTPUBLICTRANS	_PCTNONINSTUNDER18	_PCTPUBLICTRANS
_PCTHAWNPI2	_AVG_LOS	_PCTHAWNPI2
_PCTFAMILIES	_PCTOTHER1	_PCTFAMILIES
_PCTOWNEROCC	_PCTNONFAMHHS	_PCTOWNEROCC
_PCTFAMHHINC35	_PCTRENTEROCC	_PCTFAMHHINC35
_NUMBER_OF_BEDS	_PCTSINGLEFATHERS	_NUMBER_OF_BEDS
_PCTUNMARRIEDGIVINGBIRTH	_PCTBLACK1	_PCTUNMARRIEDGIVINGBIRTH
_PCTPOOR18TO64	_PCTUNMARRIEDPARTNER	_PCTPOOR18TO64
_PCTFAMHHINC15	_PCTPOORUNRELATED	_PCTFAMHHINC15
_PCTHIGHSCHOOLORMORE	_AVGCOMMUTE	_PCTHIGHSCHOOLORMORE
_PCTHHINC35	_PCTUNITS1	_PCTHHINC35
_PCTHVALOVER2MILLION	_PCTFINANCE_INS	_PCTHVALOVER2MILLION
_PCTNONFAMHHPOP	_PCTWOMEN35TO50	_PCTNONFAMHHPOP
_PCTUNDER18	_PCTHHFWOOD	_PCTUNDER18
_PCTDIFFHOUSESAMECOUNTY	_INPATIENT_DAYS	_PCTDIFFHOUSESAMECOUNTY
_CBSATYPE	_PCTHHINC50	_CBSATYPE
_PCTDIFFHOUSE	_PCTVACANTSEASONAL	_PCTDIFFHOUSE
_PCTBUILTBEFORE1940	_PCTRECREATIONETC	_PCTBUILTBEFORE1940
_PCTOWNKIDSU6ALLPRNTSWK	_PCTFAMHHINC25	_PCTOWNKIDSU6ALLPRNTSWK
_AVGHHSIZE	_PCTFULLTIMEWORKERSFEMALE	_AVGHHSIZE

327 Bucketed Independent Variables

Independent
Variable

_PCTHHFSOLAR
_PCTNOVEHICLES
_PCTCARPOOL
_PCTVEHICLESGE3
_PCTSAMEHOUSE
_PCTPERSONSINRENTTERUNITS
_PCTVETERAN
_PCTSINGLEFEMALEFAMILIES
_PCTSEPARATED
_PCTSINGLEMALEFAMILIES
_PCTNOTINSUREDUNDER65
_PCTSINGLEMOTHERS
_PCTINNURSERY
_PCTUNEMPLOYEDCLF
_PCTTRANSPORTATION
_PCTPRIVWAGEWORKERS
_PCTFAMHHINC75
_PCTNOTINSUREDUNDER18
_PCTHHPOP

Independent
Variable

_PCTHOUSEHOLDER
_PCTDIFFCNTYSAMESTATE
_PCTPOVRATIO1TO2
_PCTMARRIED
_PCTWHOLESALETRADE
_PCTOVER15
_PCTOVER16FEMALES
_PCTMANUFACTURING
_PCTAGE15_19
_PCTRETAILTRADE
_PCTGRANDPRNTSCARING1OR2
_PCTOTHERRELATIVE
_PCTHHFKEROSENE
_PCTNOKITCHEN
_PCTNUMMHPUBASSIST
_AVGHHSOCSEC
_PCTFEMALES
_PCTVEHICLES1
_REGION

Independent
Variable

_PCTHHFSOLAR
_PCTNOVEHICLES
_PCTCARPOOL
_PCTVEHICLESGE3
_PCTSAMEHOUSE
_PCTPERSONSINRENTTERUNITS
_PCTVETERAN
_PCTSINGLEFEMALEFAMILIES
_PCTSEPARATED
_PCTSINGLEMALEFAMILIES
_PCTNOTINSUREDUNDER65
_PCTSINGLEMOTHERS
_PCTINNURSERY
_PCTUNEMPLOYEDCLF
_PCTTRANSPORTATION
_PCTPRIVWAGEWORKERS
_PCTFAMHHINC75
_PCTNOTINSUREDUNDER18
_PCTHHPOP

SAS Automatic General Linear Model Selection
 Although Slightly Better than My Model it is Rarely Appropriate
 With 327 Independent Variables Nonsensical Relationships are Common

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value
Model	7	9.88831	1.41262	22.01
Error	1414	90.75656	0.06418	
Corrected Total	1421	100.64487		

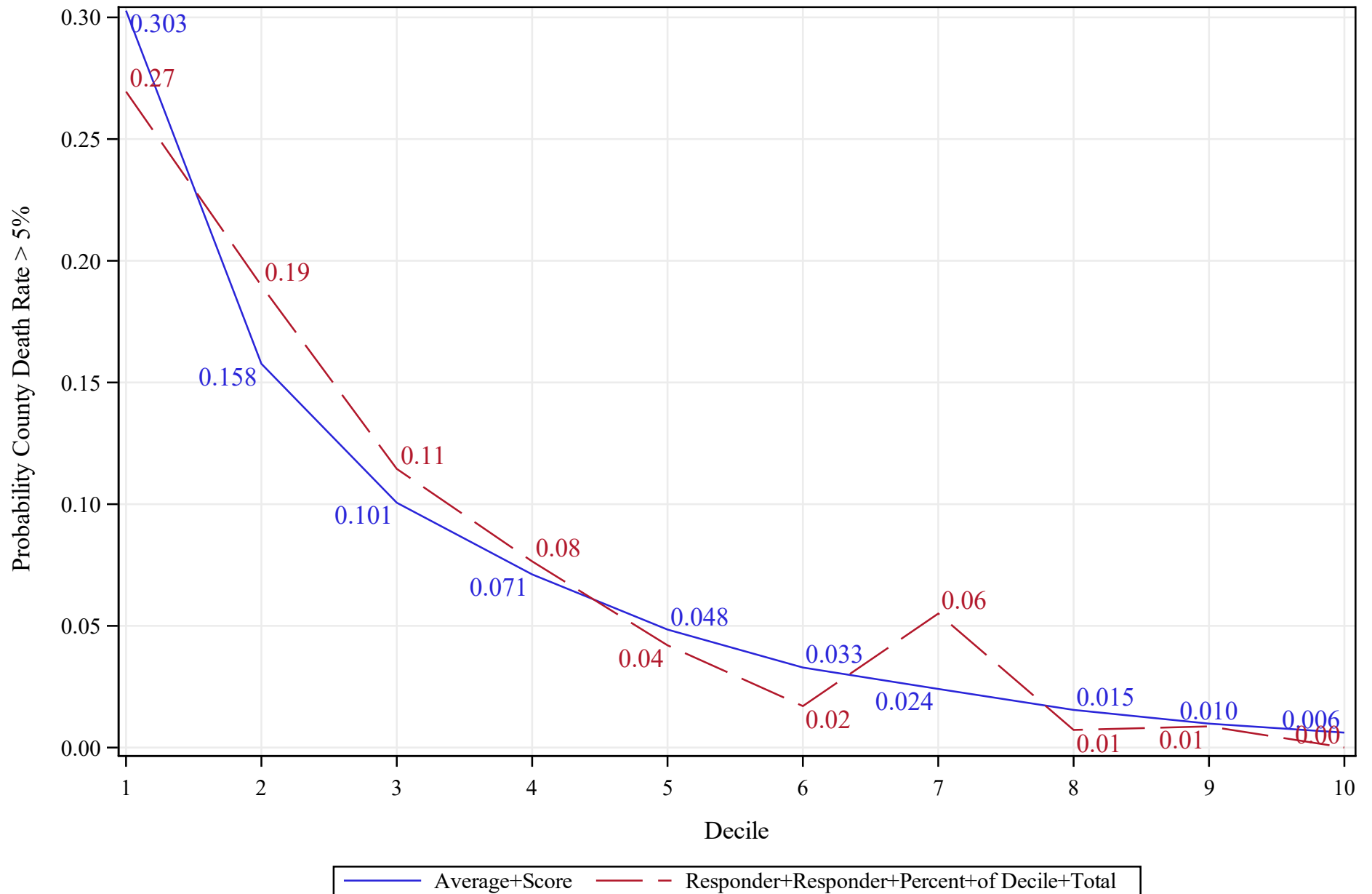
R-Square 0.0982

Parameter Estimates

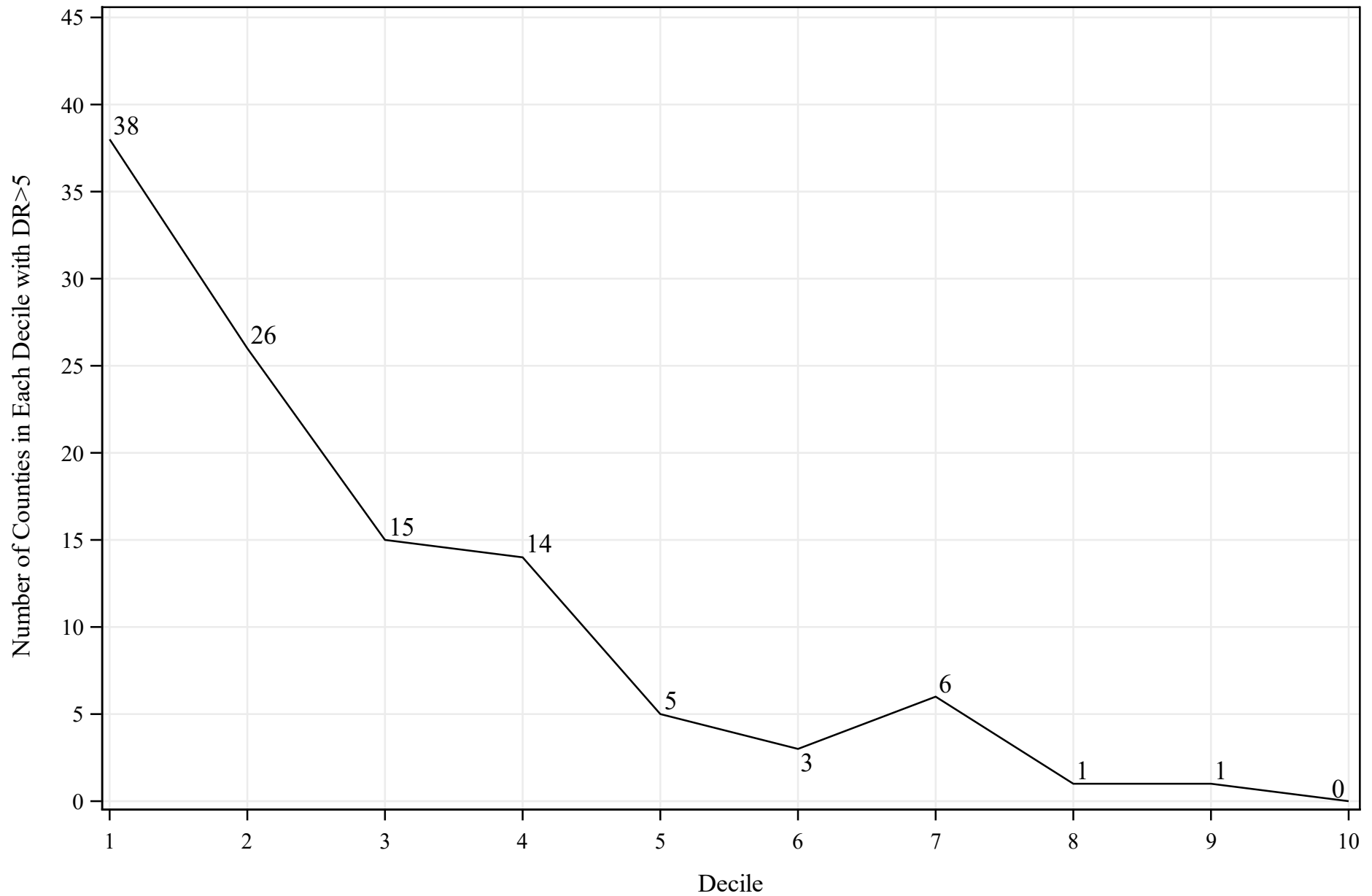
Parameter	DF	Estimate	Error	t Value
Intercept	1	-0.242	0.033	-7.19
_STAB	1	0.733	0.141	5.17
_POPULATION	1	0.446	0.139	3.20
_PCTNUMHHSOCSEC	1	0.680	0.224	3.03
_PCTOTHERINDUSTRIES	1	0.545	0.190	2.86
_PCTLIVINGALONE	1	0.447	0.162	2.75
_PCTBORNINCURRSTATE	1	0.444	0.160	2.77
_PCTHUSMORTOVER30PCT	1	0.866	0.300	2.88

Model Prediction and Observed Probabilities of Death Rate Over 5%

Predicted and Observed Probability of Death Rate Over 5%



Number of Counties in Each Decile with Death Rates Over 5% by Decile



Percent Contribution by Variable to Decile 1

Variable Contributions to Predicted Risk(DR>5)

Independent Predictor Variables

State Abbreviations

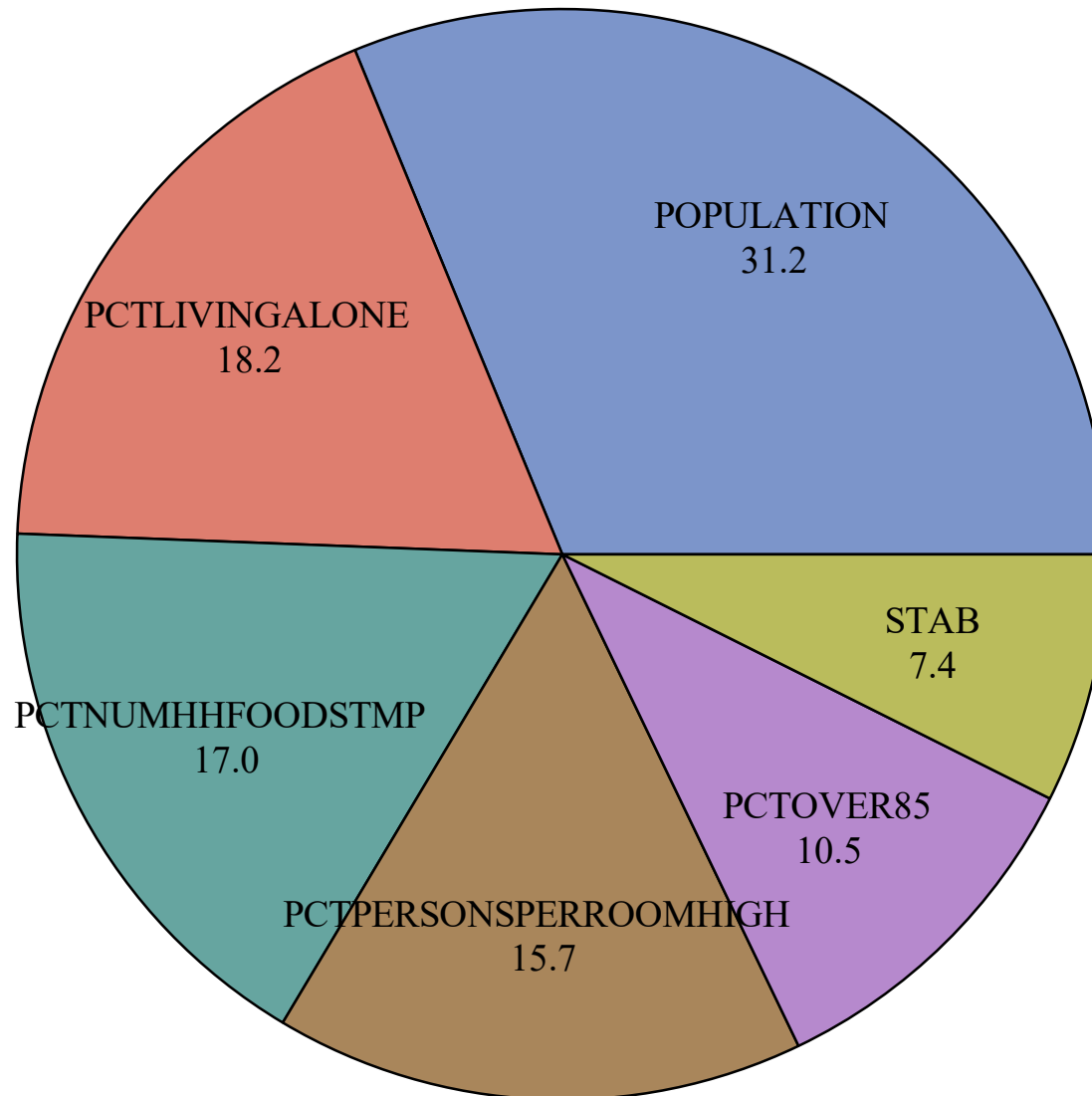
Country Population(Lower Population Higher Risk)

Crowding 1.5-6 Persons per Room

Percent of Population Over 85

Percent of Population on Food Stamps

Percent of Population Living Alone



Percent Concordant and Percent Discordant

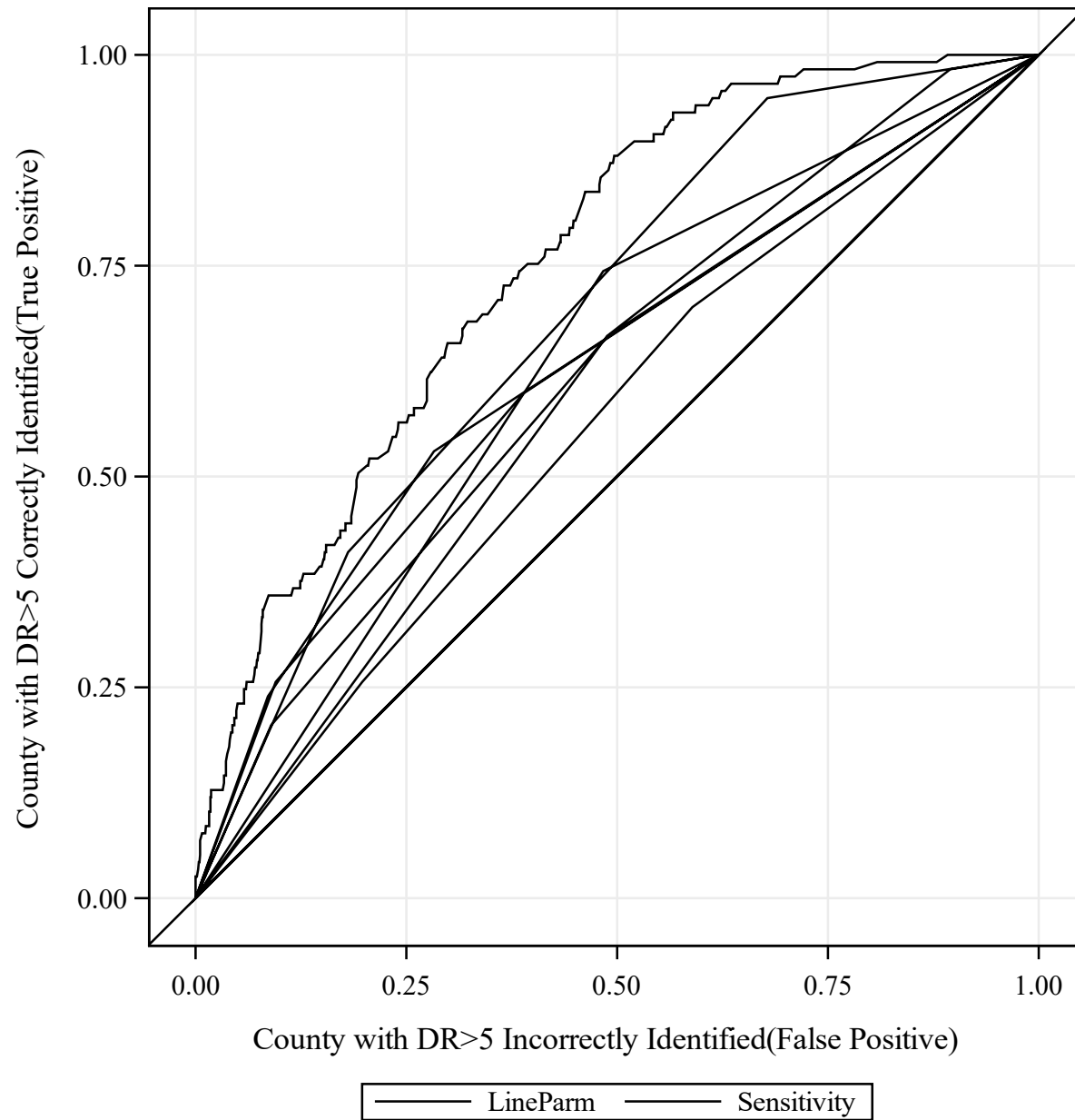
Percent Concordant	75.4 (also area under ROC Curve)
Percent Discordant	24.6

Create two datasets one with $DR > 5$ and one without.

Compares all pairs of counties in two datasets.

Percent concordant: Percentage of pairs where the County in the $DR > 5$ dataset has a higher probability than the observation in the $DR < 5$ (non-event) dataset.

ROC curves for all Independent Variables



ROC curves for all Independent Variables

Seventeen States in the Southern Region of the United States AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV 109 or 7.67% of the 109 Counties had a Death Rate Over 5%									
Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%	
Chi-Square= 50.55 P-Value= 0.00000									
1	STAB	DC(0,1,0.0%) DE(0,3,0.0%) FL(0,67,0.0%) NC(1,100,1.0%) OK(1,77,1.3%) TN(0,95,0.0%)	2	341	343	24.12%	0.58%	0.08	
2		AL(2,67,3.0%) AR(4,75,5.3%) KY(7,120,5.8%) LA(4,64,6.3%) SC (2,46,4.3%)	19	353	372	26.16%	5.11%	0.67	
3		GA(19,159,11.9%) MD(2,24,8.3%) MS(11,82,13.4%) TX(33,254,13.0%) VA (15,133,11.3%) WV(8,55,14.5%)	88	619	707	49.72%	12.45%	1.62	
9			109	1,313	1,422	100%	7.67%	1.00	

ROC curves for all Independent Variables

Seventeen States in the Southern Region of the United States AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV 109 or 7.67% of the 109 Counties had a Death Rate Over 5%								
Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 17.81 P-Value= 0.00002								
1	AREA	NotDeepSouth(40,796,5.0%)	40	756	796	55.98%	5.03%	0.66
2		DeepSouth(69,626,11.0%)	69	557	626	44.02%	11.02%	1.44
9			109	1,313	1,422	100%	7.67%	1.00

ROC curves for all Independent Variables

Seventeen States in the Southern Region of the United States AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV 109 or 7.67% of the 109 Counties had a Death Rate Over 5%								
Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 16.64 P-Value= 0.00005								
1	CBSATYPE	Metro(26,603,4.3%)	26	577	603	42.41%	4.31%	0.56
2		Micro(83,819,10.1%)	83	736	819	57.59%	10.13%	1.32
9			109	1,313	1,422	100%	7.67%	1.00

ROC curves for all Independent Variables

<div>Chi-Square Analysis for Model Numeric Independent Variable</div> <div>Seventeen States in the Southern Regions of the United States</div> <div>AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV</div> <div>&jhu_cnrsp or &jhu_avgpct% of the &jhu_cnrsp Counties had a Death Rate Over 5%</div>								
Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1,422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 &jhu_a 7.67.%
Chi-Square= 62.142809184 P-Value= 0.00000								
1	POPULATION	36263<=POPULATION<=4713325	12	557	569	40.01%	2.11%	0.28
2		11157<=POPULATION<=36004	48	521	569	40.01%	8.44%	1.10
3		169<=POPULATION<=11137	49	235	284	19.97%	17.25%	2.25
9			109	1,313	1,422	100%	7.67%	1.00

ROC curves for all Independent Variables

Chi-Square Analysis for Model Numeric Independent Variable Seventeen States in the Southern Regions of the United States AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV &jhu_cnrsp or &jhu_avgpct% of the &jhu_cnrsp Counties had a Death Rate Over 5%								
Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1,422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 &jhu_a 7.67%
Chi-Square= 42.22983262 P-Value= 0.00000								
1	PCTLIVINGALONE	60.799987793<=PCTLIVINGALONE<=89	46	945	991	69.69%	4.64%	0.61
2		89.099975586<=PCTLIVINGALONE<=100	63	368	431	30.31%	14.62%	1.91
9			109	1,313	1,422	100%	7.67%	1.00

ROC curves for all Independent Variables

Chi-Square Analysis for Model Numeric Independent Variable Seventeen States in the Southern Regions of the United States AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV &jhu_cnrsp or &jhu_avgpct% of the &jhu_cnrsp Counties had a Death Rate Over 5%								
Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1,422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 &jhu_a 7.67%
Chi-Square= 30.906470395 P-Value= 0.00000								
1	PCTPERSONSPERROOMHIGH	0.1<=PCTPERSONSPERROOMHIGH<=1.4	66	1,082	1,148	80.73%	5.75%	0.75
2		?,1.5<=PCTPERSONSPERROOMHIGH<=6	43	231	274	19.27%	15.69%	2.05
9			109	1,313	1,422	100%	7.67%	1.00

ROC curves for all Independent Variables

Chi-Square Analysis for Model Numeric Independent Variable Seventeen States in the Southern Regions of the United States AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV &jhu_cnrsp or &jhu_avgpct% of the &jhu_cnrsp Counties had a Death Rate Over 5%					
Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties
Chi-Square= 18.244563579 P-Value= 0.00002					
1	PCTNUMHHFOODSTMP	0.6999998093<=PCTNUMHHFOODSTMP<=20.199996948	70	1,067	1,137
2		20.299987793<=PCTNUMHHFOODSTMP<=47.699981689	39	246	285
9			109	1,313	1,422

Chi-Square Analysis for Model Numeric Independent Variable Seventeen States in the Southern Regions of the United States AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV &jhu_cnrsp or &jhu_avgpct% of the &jhu_cnrsp Counties had a Death Rate Over 5%		
Percent Coverage All Counties Column Divided by &jhu_cnrsp	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 &jhu_avgpct.%
Chi-Square= 18.244563579 P-Value= 0.00002		
79.96%	6.16%	0.80
20.04%	13.68%	1.79
100%	7.67%	1.00

ROC curves for all Independent Variables

<div>Chi-Square Analysis for Model Numeric Independent Variable</div> <div>Seventeen States in the Southern Regions of the United States</div> <div>AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV</div> <div>&jhu_ctrsp or &jhu_avgpct% of the &jhu_ctrsp Counties had a Death Rate Over 5%</div>								
Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1,422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 &jhu_a 7.67%
Chi-Square= 16.953170346 P-Value= 0.00004								
1	PCTOVER85	0<=PCTOVER85<=1.7999992371	34	679	713	50.14%	4.77%	0.62
2		1.8999996185<=PCTOVER85<=6	75	634	709	49.86%	10.58%	1.38
9			109	1,313	1,422	100%	7.67%	1.00

Variables by Descending Chi-Square

Variable	Chi-Square	Prob > Chi_square
DR5	1422.00	0
AVG_COUNTY_MORTALITY	979.11	0
PCTDISABLED	228.26	0
PCTGRPQUARTERS	156.53	0
AVGHHSIZE	99.79	0
POPULATION	62.14	0
TOTPOP	60.41	0
TOTPOPSF1	58.73	0
PCTFBOCEANIA	54.25	0
PERSONSPERROOMLOW	52.88	0
STAB	50.55	0
CASES	48.17	0
PERSONSPERROOMMEDIUM	47.46	0
PCTNATIVEENTEREDGE2000	44.97	0
PCTBORNINCURRSTATE	42.78	0
PCTBORNINDIFFSTATE	42.78	0
AVGHPUBASSIST	42.73	0
AVGHHSUPPSECINC	42.71	0
PCTLIVINGALONE	42.23	0
PCTHUSMORT	42.04	0
PCTHUSNOMORT	42.04	0
PCTHVALUNDER50	41.27	0
PCTFBEUROPE	41.13	0
PCTHVAL200	41.08	0
PCTFBNORTHAMERICA	40.68	0
MEDIANHVALUE	40.54	0
PCTMOVEDIN2010ORLATER	40.11	0
PCTMOVEDINBEFORE1990	39.78	0
PCTWOMEN15TO19	36.26	0
PCTHVAL300	34.23	0
PCTFBAFRICA	33.99	0

Variables by Descending Chi-Square

Variable	Chi-Square	Prob > Chi_square
PCTFBASIA	33.71	0
PCTNATIVEENTEREDLT2000	33.22	0
PCTCASHRENT	32.99	0
PCTNOCASHRENT	32.99	0
AVGHVALUE	32.40	0
AVGNONFAMINC	32.02	0
PCTASIAN2	31.01	0
PCTPERSONSPERROOMHIGH	30.91	0
PCTHVALOVERMILLION	30.77	0
PCTUNPAIDFAMWORKERS	30.55	0
PCTCOMPUTER	30.37	0
PCTNOCOMPUTER	30.37	0
PCTNONHISPASIAN	30.11	0
MEDIANGROSSRENT	29.75	0
PCTNOPLUMBING	29.61	0
PCTASIAN1	29.25	0
PCTBORNABROAD	29.14	0
PCTBORNINUS	29.14	0
PCTNATURALIZED	29.12	0
PCTNONCITIZEN	29.12	0
PCTOWNKIDSU6ALLPRNTSWK	29.06	0
DISCHARGE_TOTAL	28.65	0
PCTAGE25_34	28.60	0
PERSONSPERROOMHIGH	28.34	0

Useful Test for Colinearity
Variance Inflation over 2.5 Indicates Colinearity

Independent Variable	Variance Inflation
PctBornInDiffState	23744893.93
PctBornInCurrState	23744288.18
PctNonFamHhPop	1203806.55
PctFamHhPop	1203805.16
PctBlack1	84983.54
PctWhite1	77303.61
PctMilitary	8056.78
PctCivilian	7198.84
PctOver65Females	1999.21
PctOver65Males	1945.43
PctMales	153.312* Exact linear
PctFemales	?*M=100-F
PctBornAbroad	?
PctForeignBorn	?
PctNoComputer	11.253* Exact linear
PctComputer	?
PctFullTimeWorkersMale	5.9377* Exact linear
PctFullTimeWorkersFemale	?

All Possible Models(millions) with 6 Independent Variables
Positive Coefficients Required and Sorted by Decreasing RSQUARE
Top Three Six Variable Models out of All Possible Six Variable Models

Rsquare=0.0943 set=6 variable model	Coefficient
State	0.752
population	0.534
pctOver65	0.737
pctEducHealthSocSvcs	0.805
pctSingleMaleFamilies	0.593
pctNumHHFoodStmp	0.548

Rsquare=0.0942 set=6 variable model	
State	0.775
population	0.586
pctOver65	0.775
pctEducHealthSocSvcs	0.791
pctBornInCurrState	0.551
pctHUsMortOver30Pct	0.880

Rsquare=0.0940 set=6 variable model	
State	0.894
population	0.416
pctOver65	0.701
pctNumHHFoodStmp	0.763
pctSingleMaleFamilies	0.604
pctLivingAlone	0.487

Check Final Model for Variance Inflation. No Obvious Colinearity

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
_Stab	1	0.83308	0.13787	6.04	<.0001	1.05493
_population	1	0.41161	0.14446	2.85	0.0044	1.42198
_pctPersonsPerRoomHigh	1	0.51109	0.18501	2.76	0.0058	1.15873
_pctOver85	1	0.73913	0.23955	3.09	0.0021	1.06660
_pctNumHHFoodStmp	1	0.68847	0.23064	2.99	0.0029	1.06171
_pctLivingAlone	1	0.53488	0.15998	3.34	0.0008	1.18596

Gains table or Lift Table

Odds with Lift Table Page 1 of 2

Index and Gains Table for Counties with a Death Rates over 5%

The Overall Percentage of Counties with a Death Rates over 5% is 7.67%
The Odds Ratio is the Percent Response in the Decile divided by the Overall Percent Response.
For instance for the top 10% the odds are 26.95/7.67 = 3.52
Counties in the top Decile are over 3 times as likely to have death rates over 5%
Average probability score in the top decile times decile total yields
Number of Counties with Death Rate over 5 Percent

Decile	County Without DR>5	County with DR>5	County in Decile	County with DR>5 as Percent of Decile Total 38/141 =26.95%	Cum County with DR>5	County with DR>5 as Percent of all Counties with DR>5 39/117 =33%	Cum County with DR>5 as Percent of all Counties with DR>5	Cum County in Decile	Cum County without DR>5	Cum County with DR>5 Percent of Decile Totals	Odds Decile will exceed overall average 7.67%
1	103	38	141	26.95	38	34.86	34.86	141	103	26.95	3.52
2	111	26	137	18.98	64	23.85	58.72	278	214	23.02	2.48
3	116	15	131	11.45	79	13.76	72.48	409	330	19.32	1.49
4	169	14	183	7.65	93	12.84	85.32	592	499	15.71	1.00
5	114	5	119	4.20	98	4.59	89.91	711	613	13.78	0.55
6	173	3	176	1.70	101	2.75	92.66	887	786	11.39	0.22
7	103	6	109	5.50	107	5.50	98.17	996	889	10.74	0.72
8	137	1	138	0.72	108	0.92	99.08	1134	1026	9.52	0.09
9	114	1	115	0.87	109	0.92	100.00	1249	1140	8.73	0.11
10	173	0	173	0.00	109	0.00	100.00	1422	1313	7.67	0.00

Odds with Lift Table Page 2 of 2

Index and Gains Table for Counties with a Death Rates over 5%

Decile	County Without DR>5	County with DR>5	County in Decile	Odds Decile will exceed overall average 8,2%	Cum Odds	Max Score	Mean Score	Min Score
1	103	38	141	3.52	3.52	0.507	0.303	0.208
2	111	26	137	2.48	3.00	0.201	0.158	0.128
3	116	15	131	1.49	2.52	0.127	0.101	0.085
4	169	14	183	1.00	2.05	0.084	0.071	0.058
5	114	5	119	0.55	1.80	0.054	0.048	0.043
6	173	3	176	0.22	1.49	0.043	0.033	0.032
7	103	6	109	0.72	1.40	0.028	0.024	0.019
8	137	1	138	0.09	1.24	0.019	0.015	0.012
9	114	1	115	0.11	1.14	0.012	0.010	0.008
10	173	0	173	0.00	1.00	0.008	0.006	0.004

Optimum Recursive Binning oAll 327 Variables

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 1422 P-Value= 0.00000								
1	DR5	0<=DR5<=0	0	1,313	1,313	92.33%	0.00%	0.00
2		1<=DR5<=1	109	0	109	7.67%	100.00%	13.05
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 62.142809184 P-Value= 0.00000								
1	POPULATION	36263<=POPULATION<=4713325	12	557	569	40.01%	2.11%	0.28
2		11157<=POPULATION<=36004	48	521	569	40.01%	8.44%	1.10
3		169<=POPULATION<=11137	49	235	284	19.97%	17.25%	2.25
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 60.405859374 P-Value= 0.00000								
1	TOTPOP	35765<=TOTPOP<=4602523	13	556	569	40.01%	2.28%	0.30
2		11355<=TOTPOP<=35741	47	522	569	40.01%	8.26%	1.08
3		102<=TOTPOP<=11295	49	235	284	19.97%	17.25%	2.25
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 58.725519155 P-Value= 0.00000								
1	TOTPOPSF1	50251<=TOTPOPSF1<=4092459	7	419	426	29.96%	1.64%	0.21
2		11572<=TOTPOPSF1<=49948	53	659	712	50.07%	7.44%	0.97
3		82<=TOTPOPSF1<=11561	49	235	284	19.97%	17.25%	2.25
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 54.246622382 P-Value= 0.00000								
1	PCTFBOCEANIA	0.0999999642<=PCTFBOCEANIA<=55.899993896	12	533	545	38.33%	2.20%	0.29
2		0<=PCTFBOCEANIA<=0	94	778	872	61.32%	10.78%	1.41
3		?<=PCTFBOCEANIA<=?	3	2	5	0.35%	60.00%	7.83
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 52.878471371 P-Value= 0.00000								
1	PERSONSPERROOMLOW	18826<=PERSONSPERROOMLOW<=1494625	7	419	426	29.96%	1.64%	0.21
2		5721<=PERSONSPERROOMLOW<=18642	39	531	570	40.08%	6.84%	0.89
3		26<=PERSONSPERROOMLOW<=5694	63	363	426	29.96%	14.79%	1.93
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 48.168207532 P-Value= 0.00000								
1	CASES	943<=CASES<=172205	14	555	569	40.01%	2.46%	0.32
2		472<=CASES<=941	19	265	284	19.97%	6.69%	0.87
3		0<=CASES<=470	76	493	569	40.01%	13.36%	1.74
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 47.458167532 P-Value= 0.00000								
1	PERSONSPERROOMMEDIUM	254<=PERSONSPERROOMMEDIUM<=65437	13	548	561	39.45%	2.32%	0.30
2		58<=PERSONSPERROOMMEDIUM<=253	51	512	563	39.59%	9.06%	1.18
3		?,1<=PERSONSPERROOMMEDIUM<=57	45	253	298	20.96%	15.10%	1.97
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 44.967921557 P-Value= 0.00000								
1	PCTNATIVEENTEREDGE2000	29.699996948<=PCTNATIVEENTEREDGE2000<=291.59985352	45	928	973	68.42%	4.62%	0.60
2		291.69995117<=PCTNATIVEENTEREDGE2000<=999.89990234	14	124	138	9.70%	10.14%	1.32
3		? ,0<=PCTNATIVEENTEREDGE2000<=29.399993896	50	261	311	21.87%	16.08%	2.10
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 42.780937411 P-Value= 0.00000								
1	PCTBORNINCURRSTATE	22.799987793<=PCTBORNINCURRSTATE<=77.299987793	36	817	853	59.99%	4.22%	0.55
2		77.399963379<=PCTBORNINCURRSTATE<=82.899963379	28	256	284	19.97%	9.86%	1.29
3		83<=PCTBORNINCURRSTATE<=98	45	240	285	20.04%	15.79%	2.06
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTBORNINDIFFSTATE	22.699996948<=PCTBORNINDIFFSTATE<=77.199951172	36	817	853	59.99%	4.22%	0.55
2		17.099990845<=PCTBORNINDIFFSTATE<=22.599990845	28	256	284	19.97%	9.86%	1.29
3		2<=PCTBORNINDIFFSTATE<=17	45	240	285	20.04%	15.79%	2.06
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 42.705346861 P-Value= 0.00000								
1	AVGHHSUPPSECINC	8942<=AVGHHSUPPSECINC<=17102	52	934	986	69.34%	5.27%	0.69
2		8076<=AVGHHSUPPSECINC<=8941	26	256	282	19.83%	9.22%	1.20
3		? ,5075<=AVGHHSUPPSECINC<=8071	31	123	154	10.83%	20.13%	2.63
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 42.22983262 P-Value= 0.00000								
1	PCTLIVINGALONE	60.799987793<=PCTLIVINGALONE<=89	46	945	991	69.69%	4.64%	0.61
2		89.099975586<=PCTLIVINGALONE<=100	63	368	431	30.31%	14.62%	1.91
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 42.04419701 P-Value= 0.00000								
1	PCTHUSMORT	60<=PCTHUSMORT<=88.699951172	6	276	282	19.83%	2.13%	0.28
2		41.399993896<=PCTHUSMORT<=59.899993896	42	672	714	50.21%	5.88%	0.77
3		0<=PCTHUSMORT<=41.299987793	61	365	426	29.96%	14.32%	1.87
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTHUSNOMORT	11.299995422<=PCTHUSNOMORT<=40	6	276	282	19.83%	2.13%	0.28
2		40.099975586<=PCTHUSNOMORT<=58.599975586	42	672	714	50.21%	5.88%	0.77
3		58.699981689<=PCTHUSNOMORT<=100	61	365	426	29.96%	14.32%	1.87
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 41.26955871 P-Value= 0.00000								
1	PCTHVALUNDER50	0.3999998569<=PCTHVALUNDER50<=17	31	682	713	50.14%	4.35%	0.57
2		17.099990845<=PCTHVALUNDER50<=33.199981689	50	517	567	39.87%	8.82%	1.15
3		33.399993896<=PCTHVALUNDER50<=82.399963379	28	114	142	9.99%	19.72%	2.57
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 41.131753758 P-Value= 0.00000								
1	PCTFBEUROPE	0.6999998093<=PCTFBEUROPE<=100	81	1,191	1,272	89.45%	6.37%	0.83
2		0<=PCTFBEUROPE<=0.5999999046	25	120	145	10.20%	17.24%	2.25
3		?<=PCTFBEUROPE<=?	3	2	5	0.35%	60.00%	7.83
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 41.07903513 P-Value= 0.00000								
1	PCTHVAL200	12.699996948<=PCTHVAL200<=42.5	27	680	707	49.72%	3.82%	0.50
2		6.1999969482<=PCTHVAL200<=12.599998474	56	517	573	40.30%	9.77%	1.27
3		0<=PCTHVAL200<=6.0999984741	26	116	142	9.99%	18.31%	2.39
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 40.681055191 P-Value= 0.00000								
1	PCTFBNORTHAMERICA	0.0999999642<=PCTFBNORTHAMERICA<=100	51	918	969	68.14%	5.26%	0.69
2		0<=PCTFBNORTHAMERICA<=0	55	393	448	31.50%	12.28%	1.60
3		?<=PCTFBNORTHAMERICA<=?	3	2	5	0.35%	60.00%	7.83
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 40.535962319 P-Value= 0.00000								
1	MEDIANHVALUE	111400<=MEDIANHVALUE<=757300	29	682	711	50.00%	4.08%	0.53
2		72400<=MEDIANHVALUE<=111300	53	515	568	39.94%	9.33%	1.22
3		?,31400<=MEDIANHVALUE<=72300	27	116	143	10.06%	18.88%	2.46
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 40.112204727 P-Value= 0.00000								
1	PCTMOVEDIN2010ORLATER	46.199981689<=PCTMOVEDIN2010ORLATER<=72.699951172	6	278	284	19.97%	2.11%	0.28
2		33.699981689<=PCTMOVEDIN2010ORLATER<=46.099975586	58	796	854	60.06%	6.79%	0.89
3		17.099990845<=PCTMOVEDIN2010ORLATER<=33.599975586	45	239	284	19.97%	15.85%	2.07
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 39.775016691 P-Value= 0.00000								
1	PCTMOVEDINBEFORE1990	3.5<=PCTMOVEDINBEFORE1990<=10.099998474	0	141	141	9.92%	0.00%	0.00
2		10.199996948<=PCTMOVEDINBEFORE1990<=17.5	24	546	570	40.08%	4.21%	0.55
3		17.599990845<=PCTMOVEDINBEFORE1990<=39.5	85	626	711	50.00%	11.95%	1.56
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 36.821959327 P-Value= 0.00000								
1	AVGHHHPUBASSIST	284<=AVGHHHPUBASSIST<=11045	89	1,254	1,343	94.44%	6.63%	0.86
2		?<=AVGHHHPUBASSIST<=?	20	59	79	5.56%	25.32%	3.30
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 36.26159787 P-Value= 0.00000								
1	PCTWOMEN15TO19	0.1999999285<=PCTWOMEN15TO19<=9.5	24	671	695	48.87%	3.45%	0.45
2		9.5999984741<=PCTWOMEN15TO19<=100	28	256	284	19.97%	9.86%	1.29
3		?,0<=PCTWOMEN15TO19<=0	57	386	443	31.15%	12.87%	1.68
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 34.226941825 P-Value= 0.00000								
1	PCTHVAL300	12.099998474<=PCTHVAL300<=49.299987793	8	276	284	19.97%	2.82%	0.37
2		4.0999984741<=PCTHVAL300<=12	43	673	716	50.35%	6.01%	0.78
3		0<=PCTHVAL300<=4	58	364	422	29.68%	13.74%	1.79
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 33.990911786 P-Value= 0.00000								
1	PCTFBAFRICA	0.1999999285<=PCTFBAFRICA<=100	45	807	852	59.92%	5.28%	0.69
2		0<=PCTFBAFRICA<=0.0999999642	61	504	565	39.73%	10.80%	1.41
3		?<=PCTFBAFRICA<=?	3	2	5	0.35%	60.00%	7.83
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 33.708073452 P-Value= 0.00000								
1	PCTFBASIA	1.1999998093<=PCTFBASIA<=100	84	1,191	1,275	89.66%	6.59%	0.86
2		0<=PCTFBASIA<=1.0999994278	22	120	142	9.99%	15.49%	2.02
3		?<=PCTFBASIA<=?	3	2	5	0.35%	60.00%	7.83
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 33.220867343 P-Value= 0.00000								
1	PCTNATIVEENTEREDLT2000	48.799987793<=PCTNATIVEENTEREDLT2000<=96.399963379	48	925	973	68.42%	4.93%	0.64
2		?,0<=PCTNATIVEENTEREDLT2000<=48.599975586	21	151	172	12.10%	12.21%	1.59
3		96.599975586<=PCTNATIVEENTEREDLT2000<=100	40	237	277	19.48%	14.44%	1.88
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 32.993565946 P-Value= 0.00000								
1	PCTCASHRENT	85.699951172<=PCTCASHRENT<=100	30	680	710	49.93%	4.23%	0.55
2		76.799987793<=PCTCASHRENT<=85.599975586	37	392	429	30.17%	8.62%	1.13
3		34.799987793<=PCTCASHRENT<=76.699951172	42	241	283	19.90%	14.84%	1.94
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTNOCASHRENTER	0<=PCTNOCASHRENTER<=14.299995422	30	680	710	49.93%	4.23%	0.55
2		14.399993896<=PCTNOCASHRENTER<=23.199996948	37	392	429	30.17%	8.62%	1.13
3		23.299987793<=PCTNOCASHRENTER<=65.199951172	42	241	283	19.90%	14.84%	1.94
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 32.399439478 P-Value= 0.00000								
1	AVGHVALUE	123462<=AVGHVALUE<=771379	50	944	994	69.90%	5.03%	0.66
2		? ,52511<=AVGHVALUE<=123145	59	369	428	30.10%	13.79%	1.80
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 32.016187793 P-Value= 0.00000								
1	AVGNONFAMINC	41260<=AVGNONFAMINC<=113287	16	410	426	29.96%	3.76%	0.49
2		29434<=AVGNONFAMINC<=41256	50	662	712	50.07%	7.02%	0.92
3		15713<=AVGNONFAMINC<=29418	43	241	284	19.97%	15.14%	1.98
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 31.014545717 P-Value= 0.00000								
1	PCTASIAN2	1.8999996185<=PCTASIAN2<=21.699996948	7	283	290	20.39%	2.41%	0.31
2		0.5<=PCTASIAN2<=1.7999992371	49	689	738	51.90%	6.64%	0.87
3		0<=PCTASIAN2<=0.3999998569	53	341	394	27.71%	13.45%	1.75
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 30.906470395 P-Value= 0.00000								
1	PCTPERSONSPERROOMHIGH	0.1<=PCTPERSONSPERROOMHIGH<=1.4	66	1,082	1,148	80.73%	5.75%	0.75
2		?,1.5<=PCTPERSONSPERROOMHIGH<=6	43	231	274	19.27%	15.69%	2.05
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 30.7726629 P-Value= 0.00000								
1	PCTHVALOVERMILLION	0.0999999642<=PCTHVALOVERMILLION<=19.399993896	58	1,012	1,070	75.25%	5.42%	0.71
2		0<=PCTHVALOVERMILLION<=0	51	301	352	24.75%	14.49%	1.89
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 30.551221605 P-Value= 0.00000								
1	PCTUNPAIDFAMWORKERS	0.0999999642<=PCTUNPAIDFAMWORKERS<=0.1999999285	26	629	655	46.06%	3.97%	0.52
2		0.2999999523<=PCTUNPAIDFAMWORKERS<=3.7999992371	34	371	405	28.48%	8.40%	1.10
3		0<=PCTUNPAIDFAMWORKERS<=0	49	313	362	25.46%	13.54%	1.77
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 30.372964349 P-Value= 0.00000								
1	PCTCOMPUTER	87.699951172<=PCTCOMPUTER<=97.799987793	4	281	285	20.04%	1.40%	0.18
2		81.399963379<=PCTCOMPUTER<=87.599975586	25	399	424	29.82%	5.90%	0.77
3		38.299987793<=PCTCOMPUTER<=81.299987793	80	633	713	50.14%	11.22%	1.46
9			109	1,313	1,422	100%	7.67%	1.00

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1	PCTNOCOMPUTER	2.1999988556<=PCTNOCOMPUTER<=12.299995422	4	281	285	20.04%	1.40%	0.18
2		12.399993896<=PCTNOCOMPUTER<=18.599990845	25	399	424	29.82%	5.90%	0.77
3		18.699996948<=PCTNOCOMPUTER<=61.699981689	80	633	713	50.14%	11.22%	1.46
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 30.105233162 P-Value= 0.00000								
1	PCTNONHISPASIAN	0.2999999523<=PCTNONHISPASIAN<=19.699996948	56	991	1,047	73.63%	5.35%	0.70
2		0<=PCTNONHISPASIAN<=0.1999999285	53	322	375	26.37%	14.13%	1.84
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 29.745082114 P-Value= 0.00000								
1	MEDIANGROSSRENT	869<=MEDIANGROSSRENT<=1936	9	275	284	19.97%	3.17%	0.41
2		550<=MEDIANGROSSRENT<=868	74	919	993	69.83%	7.45%	0.97
3		? ,318<=MEDIANGROSSRENT<=549	26	119	145	10.20%	17.93%	2.34
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 29.607841718 P-Value= 0.00000								
1	PCTNOPLUMBING	0.0999999642<=PCTNOPLUMBING<=0.7999997139	56	989	1,045	73.49%	5.36%	0.70
2		0<=PCTNOPLUMBING<=0	17	105	122	8.58%	13.93%	1.82
3		0.8999996185<=PCTNOPLUMBING<=5.2999992371	36	219	255	17.93%	14.12%	1.84
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 29.248596128 P-Value= 0.00000								
1	PCTASIAN1	0.3999998569<=PCTASIAN1<=19.899993896	47	900	947	66.60%	4.96%	0.65
2		0<=PCTASIAN1<=0.2999999523	62	413	475	33.40%	13.05%	1.70
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 29.142649014 P-Value= 0.00000								
1	PCTBORNABROAD	1<=PCTBORNABROAD<=24.099990845	19	425	444	31.22%	4.28%	0.56
2		0.2999999523<=PCTBORNABROAD<=0.8999996185	53	690	743	52.25%	7.13%	0.93
3		0<=PCTBORNABROAD<=0.1999999285	37	198	235	16.53%	15.74%	2.05
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTBORNINUS	75.899963379<=PCTBORNINUS<=99	19	425	444	31.22%	4.28%	0.56
2		99.099975586<=PCTBORNINUS<=99.699951172	53	690	743	52.25%	7.13%	0.93
3		99.799987793<=PCTBORNINUS<=100	37	198	235	16.53%	15.74%	2.05
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 29.121063999 P-Value= 0.00000								
1	PCTNATURALIZED	18.699996948<=PCTNATURALIZED<=100	86	1,189	1,275	89.66%	6.75%	0.88
2		0<=PCTNATURALIZED<=18.599990845	20	122	142	9.99%	14.08%	1.84
3		?<=PCTNATURALIZED<=?	3	2	5	0.35%	60.00%	7.83
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties
Chi-Square= 29.059520247 P-Value= 0.00000				
1	PCTOWNKIDSU6ALLPRNTSWK	55.799987793<=PCTOWNKIDSU6ALLPRNTSWK<=71.399963379	39	813
2		71.5<=PCTOWNKIDSU6ALLPRNTSWK<=100	33	253
3		0<=PCTOWNKIDSU6ALLPRNTSWK<=55.699981689	37	247
9			109	1,313

Seventeen States in the Southern Regions of the United States
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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 29.059520247 P-Value= 0.00000			
852	59.92%	4.58%	0.60
286	20.11%	11.54%	1.51
284	19.97%	13.03%	1.70
1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 28.649279476 P-Value= 0.00000								
1	DISCHARGE_TOTAL	1170<=DISCHARGE_TOTAL<=36739	1	237	238	16.74%	0.42%	0.05
2		365<=DISCHARGE_TOTAL<=1158	21	335	356	25.04%	5.90%	0.77
3		?,1<=DISCHARGE_TOTAL<=364	87	741	828	58.23%	10.51%	1.37
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 28.599960896 P-Value= 0.00000								
1	PCTAGE25_34	11.5<=PCTAGE25_34<=25.399993896	41	796	837	58.86%	4.90%	0.64
2		9.7999954224<=PCTAGE25_34<=11.399993896	44	396	440	30.94%	10.00%	1.30
3		5.1999969482<=PCTAGE25_34<=9.6999969482	24	121	145	10.20%	16.55%	2.16
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 28.338478966 P-Value= 0.00000								
1	PERSONSPERROOMHIGH	68<=PERSONSPERROOMHIGH<=23424	23	624	647	45.50%	3.55%	0.46
2		?,1<=PERSONSPERROOMHIGH<=67	86	689	775	54.50%	11.10%	1.45
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 28.29449992 P-Value= 0.00000								
1	PCTOCCHUS	88.299987793<=PCTOCCHUS<=96.599975586	7	279	286	20.11%	2.45%	0.32
2		78.199951172<=PCTOCCHUS<=88.199951172	47	661	708	49.79%	6.64%	0.87
3		38.599975586<=PCTOCCHUS<=78.099975586	55	373	428	30.10%	12.85%	1.68
9			109	1,313	1,422	100%	7.67%	1.00

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 AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTVACHUS	3.3999996185<=PCTVACHUS<=11.699996948	7	279	286	20.11%	2.45%	0.32
2		11.799995422<=PCTVACHUS<=21.799987793	47	661	708	49.79%	6.64%	0.87
3		21.899993896<=PCTVACHUS<=61.399993896	55	373	428	30.10%	12.85%	1.68
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 28.262225868 P-Value= 0.00000								
1	PCTFBLATINAMERICA	0<=PCTFBLATINAMERICA<=83.299987793	73	1,062	1,135	79.82%	6.43%	0.84
2		83.5<=PCTFBLATINAMERICA<=100	33	249	282	19.83%	11.70%	1.53
3		?<=PCTFBLATINAMERICA<=?	3	2	5	0.35%	60.00%	7.83
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 28.141685926 P-Value= 0.00000								
1	FIPS	37099<=FIPS<=48031	6	279	285	20.04%	2.11%	0.27
2		1001<=FIPS<=37097	49	662	711	50.00%	6.89%	0.90
3		48033<=FIPS<=54109	54	372	426	29.96%	12.68%	1.65
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 28.094422134 P-Value= 0.00000								
1	PCTVACANTFORSALE	8.8999938965<=PCTVACANTFORSALE<=31.899993896	15	407	422	29.68%	3.55%	0.46
2		3.3999996185<=PCTVACANTFORSALE<=8.7999954224	53	661	714	50.21%	7.42%	0.97
3		0<=PCTVACANTFORSALE<=3.2999992371	41	245	286	20.11%	14.34%	1.87
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 27.580677491 P-Value= 0.00000								
1	PCTAGE10_14	5.6999969482<=PCTAGE10_14<=6.8999977112	28	666	694	48.80%	4.03%	0.53
2		7<=PCTAGE10_14<=14.799995422	43	392	435	30.59%	9.89%	1.29
3		0<=PCTAGE10_14<=5.5999984741	38	255	293	20.60%	12.97%	1.69
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 27.317170009 P-Value= 0.00000								
1	PCTNONRELATIVE	4.1999969482<=PCTNONRELATIVE<=27.299987793	45	813	858	60.34%	5.24%	0.68
2		2.8999996185<=PCTNONRELATIVE<=4.0999984741	40	386	426	29.96%	9.39%	1.22
3		0.7999997139<=PCTNONRELATIVE<=2.7999992371	24	114	138	9.70%	17.39%	2.27
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 27.281974374 P-Value= 0.00000								
1	PCTOVER65ALONE	14.299995422<=PCTOVER65ALONE<=35.099975586	13	415	428	30.10%	3.04%	0.40
2		35.199981689<=PCTOVER65ALONE<=44.5	58	658	716	50.35%	8.10%	1.06
3		44.599975586<=PCTOVER65ALONE<=77.099975586	38	240	278	19.55%	13.67%	1.78
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 27.162010227 P-Value= 0.00000								
1	PCTHVALOVER2MILLION	0.0999999642<=PCTHVALOVER2MILLION<=0.0999999642	3	251	254	17.86%	1.18%	0.15
2		0.1999999285<=PCTHVALOVER2MILLION<=7.3999977112	44	589	633	44.51%	6.95%	0.91
3		0<=PCTHVALOVER2MILLION<=0	62	473	535	37.62%	11.59%	1.51
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%
Chi-Square= 26.933437277 P-Value= 0.00000			
1	PCTGRANDPRNTSCARING5ORMORE	33.799987793<=PCTGRANDPRNTSCARING5ORMORE<=52.799987793	28
2		? ,0<=PCTGRANDPRNTSCARING5ORMORE<=33.699981689	33
3		52.899993896<=PCTGRANDPRNTSCARING5ORMORE<=100	48
9			109

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 26.933437277 P-Value= 0.00000				
677	705	49.58%	3.97%	0.52
260	293	20.60%	11.26%	1.47
376	424	29.82%	11.32%	1.48
1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 26.530879583 P-Value= 0.00000								
1	PCTOTHERINDUSTRIES	0<=PCTOTHERINDUSTRIES<=6.3999977112	82	1,193	1,275	89.66%	6.43%	0.84
2		6.5<=PCTOTHERINDUSTRIES<=12.699996948	27	120	147	10.34%	18.37%	2.40
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 25.1811958 P-Value= 0.00000								
1	PCTFBENTEREDGE2000	25.5<=PCTFBENTEREDGE2000<=69.299987793	67	1,068	1,135	79.82%	5.90%	0.77
2		69.399963379<=PCTFBENTEREDGE2000<=100	19	122	141	9.92%	13.48%	1.76
3		? ,0<=PCTFBENTEREDGE2000<=25.399993896	23	123	146	10.27%	15.75%	2.06
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 25.079961459 P-Value= 0.00000								
1	PCTNONHISPAMIND	0.2999999523<=PCTNONHISPAMIND<=42.5	28	624	652	45.85%	4.29%	0.56
2		0.0999999642<=PCTNONHISPAMIND<=0.1999999285	48	486	534	37.55%	8.99%	1.17
3		0<=PCTNONHISPAMIND<=0	33	203	236	16.60%	13.98%	1.82
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 24.734711173 P-Value= 0.00000								
1	PCTFBENTEREDLT2000	30.699996948<=PCTFBENTEREDLT2000<=74.5	67	1,068	1,135	79.82%	5.90%	0.77
2		74.599975586<=PCTFBENTEREDLT2000<=100	20	121	141	9.92%	14.18%	1.85
3		?,0<=PCTFBENTEREDLT2000<=30.599990845	22	124	146	10.27%	15.07%	1.97
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 24.363791716 P-Value= 0.00000								
1	PCTWOMENGIVINGBIRTH	3.3999996185<=PCTWOMENGIVINGBIRTH<=7.7999992371	66	1,058	1,124	79.04%	5.87%	0.77
2		7.8999977112<=PCTWOMENGIVINGBIRTH<=100	21	126	147	10.34%	14.29%	1.86
3		0<=PCTWOMENGIVINGBIRTH<=3.2999992371	22	129	151	10.62%	14.57%	1.90
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 24.240783516 P-Value= 0.00000								
1	PCTWIDOWED	2.3999996185<=PCTWIDOWED<=5.8999977112	7	276	283	19.90%	2.47%	0.32
2		6<=PCTWIDOWED<=7.8999977112	38	551	589	41.42%	6.45%	0.84
3		8<=PCTWIDOWED<=17.599990845	64	486	550	38.68%	11.64%	1.52
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 24.228939613 P-Value= 0.00000								
1	PCTPROFESSIONAL	11.199996948<=PCTPROFESSIONAL<=29.299987793	3	138	141	9.92%	2.13%	0.28
2		3.8999996185<=PCTPROFESSIONAL<=11.099998474	82	1,059	1,141	80.24%	7.19%	0.94
3		0<=PCTPROFESSIONAL<=3.7999992371	24	116	140	9.85%	17.14%	2.24
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 24.224625677 P-Value= 0.00000								
1	PCTHAWNPI2	0.0999999642<=PCTHAWNPI2<=0.2999999523	28	656	684	48.10%	4.09%	0.53
2		0.3999998569<=PCTHAWNPI2<=2.5999984741	11	106	117	8.23%	9.40%	1.23
3		0<=PCTHAWNPI2<=0	70	551	621	43.67%	11.27%	1.47
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 24.22181228 P-Value= 0.00000								
1	PCTGRANDPRNTSCARINGLT1	1.5<=PCTGRANDPRNTSCARINGLT1<=34.599975586	68	1,063	1,131	79.54%	6.01%	0.78
2		34.699981689<=PCTGRANDPRNTSCARINGLT1<=100	16	125	141	9.92%	11.35%	1.48
3		?,0<=PCTGRANDPRNTSCARINGLT1<=1.2999992371	25	125	150	10.55%	16.67%	2.17
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 24.213949675 P-Value= 0.00000								
1	PCTBUILT2010ORLATER	2.7999992371<=PCTBUILT2010ORLATER<=24.399993896	53	935	988	69.48%	5.36%	0.70
2		0<=PCTBUILT2010ORLATER<=2.6999988556	56	378	434	30.52%	12.90%	1.68
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 24.005717118 P-Value= 0.00000								
1	PCTVACANTFORRENT	9.7999954224<=PCTVACANTFORRENT<=54.299987793	30	682	712	50.07%	4.21%	0.55
2		0<=PCTVACANTFORRENT<=9.6999969482	79	631	710	49.93%	11.13%	1.45
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 23.787091849 P-Value= 0.00000								
1	PCTSINGLEMALEFAMILIES	4.0999984741<=PCTSINGLEMALEFAMILIES<=6.2999992371	42	812	854	60.06%	4.92%	0.64
2		0<=PCTSINGLEMALEFAMILIES<=4	47	375	422	29.68%	11.14%	1.45
3		6.3999977112<=PCTSINGLEMALEFAMILIES<=22.899993896	20	126	146	10.27%	13.70%	1.79
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 23.635580633 P-Value= 0.00000								
1	PCTGRANDPRNTSCARING	38.5<=PCTGRANDPRNTSCARING<=62.599975586	42	809	851	59.85%	4.94%	0.64
2		?,0<=PCTGRANDPRNTSCARING<=38.399993896	30	257	287	20.18%	10.45%	1.36
3		62.699981689<=PCTGRANDPRNTSCARING<=100	37	247	284	19.97%	13.03%	1.70
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 23.43836997 P-Value= 0.00000								
1	PCTBACHELORS	14<=PCTBACHELORS<=37.199981689	14	410	424	29.82%	3.30%	0.43
2		8.0999984741<=PCTBACHELORS<=13.899993896	58	658	716	50.35%	8.10%	1.06
3		0<=PCTBACHELORS<=8	37	245	282	19.83%	13.12%	1.71
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 23.146512954 P-Value= 0.00000								
1	PCTBACHELORSORMORE	24.799987793<=PCTBACHELORSORMORE<=78.5	6	278	284	19.97%	2.11%	0.28
2		12.699996948<=PCTBACHELORSORMORE<=24.699996948	66	783	849	59.70%	7.77%	1.01
3		0<=PCTBACHELORSORMORE<=12.599998474	37	252	289	20.32%	12.80%	1.67
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 23.124883852 P-Value= 0.00000								
1	PCTMULTIRACE	1.6999998093<=PCTMULTIRACE<=19	42	814	856	60.20%	4.91%	0.64
2		0<=PCTMULTIRACE<=1.5999994278	67	499	566	39.80%	11.84%	1.54
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTONERACE	81<=PCTONERACE<=98.299987793	42	814	856	60.20%	4.91%	0.64
2		98.399963379<=PCTONERACE<=100	67	499	566	39.80%	11.84%	1.54
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 23.00724804 P-Value= 0.00000								
1	PCTPRIVWAGEWORKERS	77.5<=PCTPRIVWAGEWORKERS<=87.399963379	23	545	568	39.94%	4.05%	0.53
2		67.899963379<=PCTPRIVWAGEWORKERS<=77.399963379	65	648	713	50.14%	9.12%	1.19
3		52.599975586<=PCTPRIVWAGEWORKERS<=67.799987793	21	120	141	9.92%	14.89%	1.94
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 22.83491308 P-Value= 0.00000								
1	PCTHVAL500	1.8999996185<=PCTHVAL500<=63.199981689	37	679	716	50.35%	5.17%	0.67
2		0.5<=PCTHVAL500<=1.7999992371	49	519	568	39.94%	8.63%	1.13
3		0<=PCTHVAL500<=0.3999998569	23	115	138	9.70%	16.67%	2.17
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 22.791708143 P-Value= 0.00000								
1	BED_DAYS_AVAILABLE	182865<=BED_DAYS_AVAILABLE<=4582805	4	238	242	17.02%	1.65%	0.22
2		36865<=BED_DAYS_AVAILABLE<=181770	52	673	725	50.98%	7.17%	0.94
3		?,2555<=BED_DAYS_AVAILABLE<=36500	53	402	455	32.00%	11.65%	1.52
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 22.475210217 P-Value= 0.00000								
1	PCTAGRICULTURE	0<=PCTAGRICULTURE<=4.5999984741	42	810	852	59.92%	4.93%	0.64
2		4.6999969482<=PCTAGRICULTURE<=46.799987793	67	503	570	40.08%	11.75%	1.53
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 22.368022947 P-Value= 0.00000								
1	PCTRECREATIONETC	7.7999992371<=PCTRECREATIONETC<=33.399993896	35	680	715	50.28%	4.90%	0.64
2		4.5999984741<=PCTRECREATIONETC<=7.6999969482	52	515	567	39.87%	9.17%	1.20
3		0<=PCTRECREATIONETC<=4.5	22	118	140	9.85%	15.71%	2.05
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 22.267381854 P-Value= 0.00000								
1	PCTMOVEDIN1990_1999	4<=PCTMOVEDIN1990_1999<=17.199996948	68	1,067	1,135	79.82%	5.99%	0.78
2		17.299987793<=PCTMOVEDIN1990_1999<=51.5	41	246	287	20.18%	14.29%	1.86
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 22.19825034 P-Value= 0.00000								
1	PCTHVAL150	13.899993896<=PCTHVAL150<=42.899993896	34	675	709	49.86%	4.80%	0.63
2		9.8999938965<=PCTHVAL150<=13.799995422	37	394	431	30.31%	8.58%	1.12
3		0<=PCTHVAL150<=9.7999954224	38	244	282	19.83%	13.48%	1.76
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 22.123892881 P-Value= 0.00000								
1	PCTCASHRENTEROVER750	58.699981689<=PCTCASHRENTEROVER750<=92.099975586	7	277	284	19.97%	2.46%	0.32
2		24.5<=PCTCASHRENTEROVER750<=58.599975586	51	660	711	50.00%	7.17%	0.94
3		0<=PCTCASHRENTEROVER750<=24.399993896	51	376	427	30.03%	11.94%	1.56
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 21.948461748 P-Value= 0.00000								
1	MEDIANEARNINGSFEMALE	32249<=MEDIANEARNINGSFEMALE<=79120	31	680	711	50.00%	4.36%	0.57
2		19914<=MEDIANEARNINGSFEMALE<=32248	78	633	711	50.00%	10.97%	1.43
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 21.828736846 P-Value= 0.00000								
1	PCTMANPROFOCCS	30.599990845<=PCTMANPROFOCCS<=69.099975586	24	545	569	40.01%	4.22%	0.55
2		11.799995422<=PCTMANPROFOCCS<=26.799987793	33	393	426	29.96%	7.75%	1.01
3		26.899993896<=PCTMANPROFOCCS<=30.5	52	375	427	30.03%	12.18%	1.59
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 21.521395926 P-Value= 0.00000								
1	PCTHHSWITHELDERS	13<=PCTHHSWITHELDERS<=32.799987793	31	677	708	49.79%	4.38%	0.57
2		32.899993896<=PCTHHSWITHELDERS<=75.399963379	78	636	714	50.21%	10.92%	1.43
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%
Chi-Square= 21.355390214 P-Value= 0.00000			
1	PCTFULLTIMEWORKERSFEMALE	38<=PCTFULLTIMEWORKERSFEMALE<=47.199981689	69
2		17.099990845<=PCTFULLTIMEWORKERSFEMALE<=37.899993896	17
3		47.299987793<=PCTFULLTIMEWORKERSFEMALE<=59.899993896	23
9			109

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 21.355390214 P-Value= 0.00000				
1,065	1,134	79.75%	6.08%	0.79
126	143	10.06%	11.89%	1.55
122	145	10.20%	15.86%	2.07
1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties
1	PCTFULLTIMEWORKERSMALE	52.799987793<=PCTFULLTIMEWORKERSMALE<=62	69	1,065
2		62.099975586<=PCTFULLTIMEWORKERSMALE<=82.899963379	17	126
3		40.099975586<=PCTFULLTIMEWORKERSMALE<=52.699981689	23	122
9			109	1,313

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1,134	79.75%	6.08%	0.79
143	10.06%	11.89%	1.55
145	10.20%	15.86%	2.07
1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 21.129366479 P-Value= 0.00000								
1	PCTINDIAN2	0.5999999046<=PCTINDIAN2<=53.599975586	66	1,044	1,110	78.06%	5.95%	0.78
2		0<=PCTINDIAN2<=0.5	43	269	312	21.94%	13.78%	1.80
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 21.011968497 P-Value= 0.00000								
1	PCTUNITS1ATTACHED	3.2999992371<=PCTUNITS1ATTACHED<=78.799987793	8	276	284	19.97%	2.82%	0.37
2		0.3999998569<=PCTUNITS1ATTACHED<=3.1999988556	78	906	984	69.20%	7.93%	1.03
3		0<=PCTUNITS1ATTACHED<=0.2999999523	23	131	154	10.83%	14.94%	1.95
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTUNITS1DETACHED	21.199996948<=PCTUNITS1DETACHED<=96.699951172	8	276	284	19.97%	2.82%	0.37
2		96.799987793<=PCTUNITS1DETACHED<=99.599975586	78	906	984	69.20%	7.93%	1.03
3		99.699951172<=PCTUNITS1DETACHED<=100	23	131	154	10.83%	14.94%	1.95
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 20.81240949 P-Value= 0.00001								
1	AVGHHEARNINGS	68279<=AVGHHEARNINGS<=173292	19	407	426	29.96%	4.46%	0.58
2		51296<=AVGHHEARNINGS<=68253	67	787	854	60.06%	7.85%	1.02
3		37788<=AVGHHEARNINGS<=51259	23	119	142	9.99%	16.20%	2.11
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 20.71846688 P-Value= 0.00001								
1	NUM_PRVDR	5<=NUM_PRVDR<=103	4	243	247	17.37%	1.62%	0.21
2		3<=NUM_PRVDR<=4	12	215	227	15.96%	5.29%	0.69
3		?,1<=NUM_PRVDR<=2	93	855	948	66.67%	9.81%	1.28
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%
Chi-Square= 20.480080119 P-Value= 0.00001			
1	PCTPRIVATEINSURANCEONLYUNDER65	63.699981689<=PCTPRIVATEINSURANCEONLYUNDER65<=95.5	26
2		53.299987793<=PCTPRIVATEINSURANCEONLYUNDER65<=63.599975586	45
3		27.599990845<=PCTPRIVATEINSURANCEONLYUNDER65<=53.199981689	38
9			109

Seventeen States in the Southern Regions of the United States
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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 20.480080119 P-Value= 0.00001				
545	571	40.15%	4.55%	0.59
519	564	39.66%	7.98%	1.04
249	287	20.18%	13.24%	1.73
1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 20.44707419 P-Value= 0.00001								
1	PCTLABORFORCE	61.699981689<=PCTLABORFORCE<=80.199951172	6	273	279	19.62%	2.15%	0.28
2		55.399993896<=PCTLABORFORCE<=61.599975586	29	407	436	30.66%	6.65%	0.87
3		23.599990845<=PCTLABORFORCE<=55.299987793	74	633	707	49.72%	10.47%	1.37
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
 AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTNOTINLF	19.799987793<=PCTNOTINLF<=38.299987793	6	273	279	19.62%	2.15%	0.28
2		38.399993896<=PCTNOTINLF<=44.599975586	29	407	436	30.66%	6.65%	0.87
3		44.699981689<=PCTNOTINLF<=76.399963379	74	633	707	49.72%	10.47%	1.37
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 20.433713809 P-Value= 0.00001								
1	PCTPOOR18TO64	0<=PCTPOOR18TO64<=22.099990845	69	1,068	1,137	79.96%	6.07%	0.79
2		22.199996948<=PCTPOOR18TO64<=46.899993896	40	245	285	20.04%	14.04%	1.83
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 20.339337035 P-Value= 0.00001								
1	PCTPOVRATIOV5TOV99	0<=PCTPOVRATIOV5TOV99<=10.099998474	37	674	711	50.00%	5.20%	0.68
2		10.199996948<=PCTPOVRATIOV5TOV99<=15.5	50	523	573	40.30%	8.73%	1.14
3		15.599998474<=PCTPOVRATIOV5TOV99<=33.899993896	22	116	138	9.70%	15.94%	2.08
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 20.328516763 P-Value= 0.00001								
1	PCTPOORINFAMILY	0<=PCTPOORINFAMILY<=16	46	802	848	59.63%	5.42%	0.71
2		16.099990845<=PCTPOORINFAMILY<=23.399993896	41	391	432	30.38%	9.49%	1.24
3		23.5<=PCTPOORINFAMILY<=50.899993896	22	120	142	9.99%	15.49%	2.02
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 20.218175788 P-Value= 0.00001								
1	PCTNONINST18_64	59<=PCTNONINST18_64<=73.599975586	16	414	430	30.24%	3.72%	0.49
2		55.599975586<=PCTNONINST18_64<=58.899993896	57	655	712	50.07%	8.01%	1.04
3		31.699996948<=PCTNONINST18_64<=55.5	36	244	280	19.69%	12.86%	1.68
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 20.128966387 P-Value= 0.00001								
1	PCTHHINC50	16.5<=PCTHHINC50<=31.199996948	56	943	999	70.25%	5.61%	0.73
2		7.2999992371<=PCTHHINC50<=16.399993896	53	370	423	29.75%	12.53%	1.63
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTNUMHHSOCSEC	13.699996948<=PCTNUMHHSOCSEC<=42.099975586	56	943	999	70.25%	5.61%	0.73
2		42.199981689<=PCTNUMHHSOCSEC<=77.199951172	53	370	423	29.75%	12.53%	1.63
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 20.055509189 P-Value= 0.00001								
1	NUMBER_OF_BEDS	526<=NUMBER_OF_BEDS<=28545	4	239	243	17.09%	1.65%	0.21
2		220<=NUMBER_OF_BEDS<=520	23	342	365	25.67%	6.30%	0.82
3		? ,7<=NUMBER_OF_BEDS<=219	82	732	814	57.24%	10.07%	1.31
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 19.971046904 P-Value= 0.00001								
1	PCTBUILT1940_1949	0.1999999285<=PCTBUILT1940_1949<=1.5999994278	1	142	143	10.06%	0.70%	0.09
2		1.6999998093<=PCTBUILT1940_1949<=8.1999969482	87	1,050	1,137	79.96%	7.65%	1.00
3		8.2999954224<=PCTBUILT1940_1949<=25.099990845	21	121	142	9.99%	14.79%	1.93
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 19.975131686 P-Value= 0.00001								
1	PCTOVER65FEMALES	6.7999992371<=PCTOVER65FEMALES<=18.399993896	22	552	574	40.37%	3.83%	0.50
2		18.5<=PCTOVER65FEMALES<=57.699981689	87	761	848	59.63%	10.26%	1.34
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 19.718449149 P-Value= 0.00001								
1	PCTUNITS20UP	5.2999992371<=PCTUNITS20UP<=46.099975586	1	142	143	10.06%	0.70%	0.09
2		0.3999998569<=PCTUNITS20UP<=5.1999969482	70	902	972	68.35%	7.20%	0.94
3		0<=PCTUNITS20UP<=0.2999999523	38	269	307	21.59%	12.38%	1.61
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

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Chi-Square= 19.601817782 P-Value= 0.00001								
1	AVGHHINC	54357<=AVGHHINC<=181724	56	940	996	70.04%	5.62%	0.73
2		33639<=AVGHHINC<=54338	53	373	426	29.96%	12.44%	1.62
9			109	1,313	1,422	100%	7.67%	1.00

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1	MEDIANHHINC	39866<=MEDIANHHINC<=136268	56	940	996	70.04%	5.62%	0.73
2		20188<=MEDIANHHINC<=39851	53	373	426	29.96%	12.44%	1.62
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 19.572558789 P-Value= 0.00001								
1	PCTPOOROVER65	0<=PCTPOOROVER65<=10.599998474	33	687	720	50.63%	4.58%	0.60
2		10.699996948<=PCTPOOROVER65<=76	76	626	702	49.37%	10.83%	1.41
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 19.52320862 P-Value= 0.00001								
1	PCTHHFNOFUEL	0.0999999642<=PCTHHFNOFUEL<=8.5	76	1,125	1,201	84.46%	6.33%	0.83
2		0<=PCTHHFNOFUEL<=0	33	188	221	15.54%	14.93%	1.95
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 19.44159754 P-Value= 0.00001								
1	PCTOVER65	3.7999992371<=PCTOVER65<=17.399993896	32	674	706	49.65%	4.53%	0.59
2		17.5<=PCTOVER65<=55.599975586	77	639	716	50.35%	10.75%	1.40
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 19.417256061 P-Value= 0.00001								
1	PCTNONCITIZEN	0<=PCTNONCITIZEN<=100	106	1,311	1,417	99.65%	7.48%	0.98
2		?<=PCTNONCITIZEN<=?	3	2	5	0.35%	60.00%	7.83
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 19.211893396 P-Value= 0.00001								
1	PCTGRANDPRNTSCARING3OR4	11.899993896<=PCTGRANDPRNTSCARING3OR4<=22.5	22	546	568	39.94%	3.87%	0.51
2		? ,0<=PCTGRANDPRNTSCARING3OR4<=11.799995422	58	515	573	40.30%	10.12%	1.32
3		22.599990845<=PCTGRANDPRNTSCARING3OR4<=100	29	252	281	19.76%	10.32%	1.35
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 19.079265283 P-Value= 0.00001								
1	PCTPOORUNDER18	0<=PCTPOORUNDER18<=25	37	673	710	49.93%	5.21%	0.68
2		25.099990845<=PCTPOORUNDER18<=39.5	50	519	569	40.01%	8.79%	1.15
3		39.599975586<=PCTPOORUNDER18<=72.599975586	22	121	143	10.06%	15.38%	2.01
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 19.051514883 P-Value= 0.00001								
1	PCTDIALUPINTERNET	0.1999999285<=PCTDIALUPINTERNET<=1.0999994278	59	964	1,023	71.94%	5.77%	0.75
2		1.1999998093<=PCTDIALUPINTERNET<=6.3999977112	34	251	285	20.04%	11.93%	1.56
3		0<=PCTDIALUPINTERNET<=0.0999999642	16	98	114	8.02%	14.04%	1.83
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 19.033296012 P-Value= 0.00001								
1	PCTHHINC0	0<=PCTHHINC0<=8.1999969482	33	683	716	50.35%	4.61%	0.60
2		8.2999954224<=PCTHHINC0<=28.899993896	76	630	706	49.65%	10.76%	1.40
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTNONINSTOVER65	6.7999992371<=PCTNONINSTOVER65<=17.399993896	33	683	716	50.35%	4.61%	0.60
2		17.5<=PCTNONINSTOVER65<=59.699981689	76	630	706	49.65%	10.76%	1.40
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTNONINSTUNDER65	82.599975586<=PCTNONINSTUNDER65<=93.199951172	33	683	716	50.35%	4.61%	0.60
2		40.299987793<=PCTNONINSTUNDER65<=82.5	76	630	706	49.65%	10.76%	1.40
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 18.634605145 P-Value= 0.00002								
1	PCTOVER62	5.3999977112<=PCTOVER62<=21.299987793	33	680	713	50.14%	4.63%	0.60
2		21.399993896<=PCTOVER62<=62	76	633	709	49.86%	10.72%	1.40
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 18.422892648 P-Value= 0.00002								
1	PCTBUILT2000_2009	20.399993896<=PCTBUILT2000_2009<=47.5	9	276	285	20.04%	3.16%	0.41
2		9.7999954224<=PCTBUILT2000_2009<=20.299987793	64	790	854	60.06%	7.49%	0.98
3		0.8999996185<=PCTBUILT2000_2009<=9.6999969482	36	247	283	19.90%	12.72%	1.66
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 18.37152819 P-Value= 0.00002								
1	PCTCIVLABFORCE	55.099975586<=PCTCIVLABFORCE<=77.199951172	33	678	711	50.00%	4.64%	0.61
2		23.599990845<=PCTCIVLABFORCE<=55	76	635	711	50.00%	10.69%	1.39
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 18.257088985 P-Value= 0.00002								
1	PCTUNITS5_9	4.0999984741<=PCTUNITS5_9<=14.399993896	7	273	280	19.69%	2.50%	0.33
2		1.5999994278<=PCTUNITS5_9<=4	41	532	573	40.30%	7.16%	0.93
3		0<=PCTUNITS5_9<=1.5	61	508	569	40.01%	10.72%	1.40
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 18.244563579 P-Value= 0.00002								
1	PCTNUMHHFOODSTMP	0.6999998093<=PCTNUMHHFOODSTMP<=20.199996948	70	1,067	1,137	79.96%	6.16%	0.80
2		20.299987793<=PCTNUMHHFOODSTMP<=47.699981689	39	246	285	20.04%	13.68%	1.79
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 18.240800077 P-Value= 0.00002								
1	MEDIANNONFAMINC	24500<=MEDIANNONFAMINC<=94604	33	677	710	49.93%	4.65%	0.61
2		?,9237<=MEDIANNONFAMINC<=24498	76	636	712	50.07%	10.67%	1.39
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 18.218675432 P-Value= 0.00002								
1	AVGGROSSRENT	833<=AVGGROSSRENT<=2025	16	410	426	29.96%	3.76%	0.49
2		566<=AVGGROSSRENT<=831	73	780	853	59.99%	8.56%	1.12
3		?,399<=AVGGROSSRENT<=565	20	123	143	10.06%	13.99%	1.82
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 18.17617855 P-Value= 0.00002								
1	PCTCONSOCCS	8.3999938965<=PCTCONSOCCS<=12.599998474	36	689	725	50.98%	4.97%	0.65
2		0<=PCTCONSOCCS<=8.2999954224	23	253	276	19.41%	8.33%	1.09
3		12.699996948<=PCTCONSOCCS<=28.599990845	50	371	421	29.61%	11.88%	1.55
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 18.041877784 P-Value= 0.00002								
1	PCTAGE5_9	4.7999992371<=PCTAGE5_9<=7.3999977112	69	1,056	1,125	79.11%	6.13%	0.80
2		7.5<=PCTAGE5_9<=12.799995422	20	136	156	10.97%	12.82%	1.67
3		1.5999994278<=PCTAGE5_9<=4.6999969482	20	121	141	9.92%	14.18%	1.85
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 17.927183237 P-Value= 0.00002								
1	PCTCOUPLESWITHKIDS	17.899993896<=PCTCOUPLESWITHKIDS<=39.799987793	27	540	567	39.87%	4.76%	0.62
2		11.5<=PCTCOUPLESWITHKIDS<=17.799987793	61	653	714	50.21%	8.54%	1.11
3		2.0999984741<=PCTCOUPLESWITHKIDS<=11.399993896	21	120	141	9.92%	14.89%	1.94
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 17.828145069 P-Value= 0.00002								
1	PCTWHOLESALETRADE	1<=PCTWHOLESALETRADE<=30.599990845	86	1,199	1,285	90.37%	6.69%	0.87
2		0<=PCTWHOLESALETRADE<=0.8999996185	23	114	137	9.63%	16.79%	2.19
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 17.807314415 P-Value= 0.00002								
1	DEEPSOUTH	0<=DEEPSOUTH<=0	40	756	796	55.98%	5.03%	0.66
2		1<=DEEPSOUTH<=1	69	557	626	44.02%	11.02%	1.44
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 17.7846442 P-Value= 0.00002								
1	PCTSPANISHENGLISHLTD	17.399993896<=PCTSPANISHENGLISHLTD<=100	90	1,189	1,279	89.94%	7.04%	0.92
2		0<=PCTSPANISHENGLISHLTD<=17.299987793	18	124	142	9.99%	12.68%	1.65
3		?<=PCTSPANISHENGLISHLTD<=?	1	0	1	0.07%	100.00%	13.05
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 17.722321696 P-Value= 0.00003								
1	AVGFAMINC	64183<=AVGFAMINC<=218876	57	939	996	70.04%	5.72%	0.75
2		39052<=AVGFAMINC<=64166	52	374	426	29.96%	12.21%	1.59
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 17.63130185 P-Value= 0.00003								
1	PCI	26540<=PCI<=69775	18	408	426	29.96%	4.23%	0.55
2		18701<=PCI<=26539	70	784	854	60.06%	8.20%	1.07
3		12292<=PCI<=18694	21	121	142	9.99%	14.79%	1.93
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 17.619319918 P-Value= 0.00003								
1	PCTUNITS10_19	1.2999992371<=PCTUNITS10_19<=20.599990845	22	533	555	39.03%	3.96%	0.52
2		0<=PCTUNITS10_19<=1.1999998093	87	780	867	60.97%	10.03%	1.31
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 17.585874875 P-Value= 0.00003								
1	PCTSINGLEFATHERS	1.5<=PCTSINGLEFATHERS<=2.7999992371	46	809	855	60.13%	5.38%	0.70
2		2.8999996185<=PCTSINGLEFATHERS<=18	28	262	290	20.39%	9.66%	1.26
3		0<=PCTSINGLEFATHERS<=1.3999996185	35	242	277	19.48%	12.64%	1.65
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 17.310377892 P-Value= 0.00003								
1	PCTWOMEN20TO34	62.5<=PCTWOMEN20TO34<=85.399963379	45	806	851	59.85%	5.29%	0.69
2		85.5<=PCTWOMEN20TO34<=100	46	380	426	29.96%	10.80%	1.41
3		?,0<=PCTWOMEN20TO34<=62.399993896	18	127	145	10.20%	12.41%	1.62
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 17.307800294 P-Value= 0.00003								
1	PCTCIVILIAN	47.399993896<=PCTCIVILIAN<=99.899963379	30	633	663	46.62%	4.52%	0.59
2		100<=PCTCIVILIAN<=100	79	680	759	53.38%	10.41%	1.36
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 17.169932323 P-Value= 0.00003								
1	PCTINHIGHSCHOOL	? ,4.5999984741<=PCTINHIGHSCHOOL<=28	86	1,197	1,283	90.23%	6.70%	0.87
2		28.0999990845<=PCTINHIGHSCHOOL<=57.5	23	116	139	9.77%	16.55%	2.16
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 17.084500205 P-Value= 0.00004								
1	PCTFAMHHINC0	0<=PCTFAMHHINC0<=5	38	680	718	50.49%	5.29%	0.69
2		5.0999984741<=PCTFAMHHINC0<=9.3999938965	50	512	562	39.52%	8.90%	1.16
3		9.5<=PCTFAMHHINC0<=22.5	21	121	142	9.99%	14.79%	1.93
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 16.953170346 P-Value= 0.00004								
1	PCTOVER85	0<=PCTOVER85<=1.7999992371	34	679	713	50.14%	4.77%	0.62
2		1.8999996185<=PCTOVER85<=6	75	634	709	49.86%	10.58%	1.38
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 16.874930865 P-Value= 0.00004								
1	NUM_REPORTS	5<=NUM_REPORTS<=111	4	256	260	18.28%	1.54%	0.20
2		?,1<=NUM_REPORTS<=4	105	1,057	1,162	81.72%	9.04%	1.18
9			109	1,313	1,422	100%	7.67%	1.00

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1	PAYMENT_XVIII_PPS	5<=PAYMENT_XVIII_PPS<=111	4	256	260	18.28%	1.54%	0.20
2		?,1<=PAYMENT_XVIII_PPS<=4	105	1,057	1,162	81.72%	9.04%	1.18
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 16.693220002 P-Value= 0.00004								
1	PCTMILITARY	0.0999999642<=PCTMILITARY<=52	30	628	658	46.27%	4.56%	0.59
2		0<=PCTMILITARY<=0	79	685	764	53.73%	10.34%	1.35
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 16.621596298 P-Value= 0.00005								
1	PCTHHINC150	4.1999969482<=PCTHHINC150<=16.899993896	17	402	419	29.47%	4.06%	0.53
2		1.7999992371<=PCTHHINC150<=4.0999984741	58	672	730	51.34%	7.95%	1.04
3		0<=PCTHHINC150<=1.6999998093	34	239	273	19.20%	12.45%	1.62
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 16.577654044 P-Value= 0.00005								
1	PCTNUMHHEARNINGS	70.799987793<=PCTNUMHHEARNINGS<=96.699951172	34	676	710	49.93%	4.79%	0.62
2		34.099975586<=PCTNUMHHEARNINGS<=70.699951172	75	637	712	50.07%	10.53%	1.37
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 16.534384332 P-Value= 0.00005								
1	PCTAGE55_59	1.6999998093<=PCTAGE55_59<=8.0999984741	86	1,195	1,281	90.08%	6.71%	0.88
2		8.1999969482<=PCTAGE55_59<=20.199996948	23	118	141	9.92%	16.31%	2.13
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 16.421649754 P-Value= 0.00005								
1	PCTINFORMATION	1.3999996185<=PCTINFORMATION<=7.5999984741	30	546	576	40.51%	5.21%	0.68
2		0.3999998569<=PCTINFORMATION<=1.2999992371	59	658	717	50.42%	8.23%	1.07
3		0<=PCTINFORMATION<=0.2999999523	20	109	129	9.07%	15.50%	2.02
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

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Chi-Square= 16.371922972 P-Value= 0.00005								
1	INPATIENT_DAYS	73873<=INPATIENT_DAYS<=9983053	18	468	486	34.18%	3.70%	0.48
2		?,92<=INPATIENT_DAYS<=73468	91	845	936	65.82%	9.72%	1.27
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 16.353742884 P-Value= 0.00005								
1	PCTNOPHONE	1.6999998093<=PCTNOPHONE<=3.2999992371	49	844	893	62.80%	5.49%	0.72
2		?,0<=PCTNOPHONE<=1.5999994278	28	233	261	18.35%	10.73%	1.40
3		3.3999996185<=PCTNOPHONE<=20.599990845	32	236	268	18.85%	11.94%	1.56
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 16.179416361 P-Value= 0.00006								
1	PCTPOORFAMILIES	0<=PCTPOORFAMILIES<=18	71	1,066	1,137	79.96%	6.24%	0.81
2		18.099990845<=PCTPOORFAMILIES<=42.699981689	38	247	285	20.04%	13.33%	1.74
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 15.954290281 P-Value= 0.00006								
1	PCTBUILTBEFORE1940	0<=PCTBUILTBEFORE1940<=7.2999992371	46	810	856	60.20%	5.37%	0.70
2		7.3999977112<=PCTBUILTBEFORE1940<=46.399993896	63	503	566	39.80%	11.13%	1.45
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 15.943395869 P-Value= 0.00007								
1	PCTHHINC15	0<=PCTHHINC15<=13.299995422	47	821	868	61.04%	5.41%	0.71
2		13.399993896<=PCTHHINC15<=26.099990845	62	492	554	38.96%	11.19%	1.46
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 15.875801497 P-Value= 0.00007								
1	PAYMENT_V_NOT_APPLICABLE	5<=PAYMENT_V_NOT_APPLICABLE<=110	4	247	251	17.65%	1.59%	0.21
2		?,0<=PAYMENT_V_NOT_APPLICABLE<=4	105	1,066	1,171	82.35%	8.97%	1.17
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 15.850275596 P-Value= 0.00007								
1	PCTOVER18	73.899963379<=PCTOVER18<=76.699951172	16	410	426	29.96%	3.76%	0.49
2		76.799987793<=PCTOVER18<=92.699951172	75	780	855	60.13%	8.77%	1.14
3		63.399993896<=PCTOVER18<=73.799987793	18	123	141	9.92%	12.77%	1.67
9			109	1,313	1,422	100%	7.67%	1.00

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1	PCTUNDER18	23.299987793<=PCTUNDER18<=26.099990845	16	410	426	29.96%	3.76%	0.49
2		7.2999992371<=PCTUNDER18<=23.199996948	75	780	855	60.13%	8.77%	1.14
3		26.199996948<=PCTUNDER18<=36.599975586	18	123	141	9.92%	12.77%	1.67
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 15.554751183 P-Value= 0.00008								
1	MEDIANFAMINC	53164<=MEDIANFAMINC<=178542	46	807	853	59.99%	5.39%	0.70
2		21816<=MEDIANFAMINC<=53160	63	506	569	40.01%	11.07%	1.44
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 15.531929842 P-Value= 0.00008								
1	PCTFAMHHINC10	1.5999994278<=PCTFAMHHINC10<=6	72	1,065	1,137	79.96%	6.33%	0.83
2		0<=PCTFAMHHINC10<=1.5	16	127	143	10.06%	11.19%	1.46
3		6.0999984741<=PCTFAMHHINC10<=13.399993896	21	121	142	9.99%	14.79%	1.93
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 15.440883385 P-Value= 0.00009								
1	PCTAGE75_84	1.1999998093<=PCTAGE75_84<=6	59	945	1,004	70.60%	5.88%	0.77
2		6.0999984741<=PCTAGE75_84<=17.399993896	50	368	418	29.40%	11.96%	1.56
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 15.324542926 P-Value= 0.00009								
1	PCTDISABLEDUNDER18	2.7999992371<=PCTDISABLEDUNDER18<=8.2999954224	72	1,067	1,139	80.10%	6.32%	0.82
2		8.3999938965<=PCTDISABLEDUNDER18<=15.399993896	16	121	137	9.63%	11.68%	1.52
3		0<=PCTDISABLEDUNDER18<=2.6999988556	21	125	146	10.27%	14.38%	1.88
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 15.313120672 P-Value= 0.00009								
1	PCTHHFELECTRIC	83.699951172<=PCTHHFELECTRIC<=98.099975586	5	137	142	9.99%	3.52%	0.46
2		12.099998474<=PCTHHFELECTRIC<=65.099975586	54	798	852	59.92%	6.34%	0.83
3		65.199951172<=PCTHHFELECTRIC<=83.599975586	50	378	428	30.10%	11.68%	1.52
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 15.272703088 P-Value= 0.00009								
1	AVG_LOS	96<=AVG_LOS<=167	20	456	476	33.47%	4.20%	0.55
2		?,14<=AVG_LOS<=95	26	325	351	24.68%	7.41%	0.97
3		168<=AVG_LOS<=45505	63	532	595	41.84%	10.59%	1.38
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 15.240355012 P-Value= 0.00009								
1	PCTGRADPROF	9.1999969482<=PCTGRADPROF<=43.199981689	6	276	282	19.83%	2.13%	0.28
2		0<=PCTGRADPROF<=9.0999984741	103	1,037	1,140	80.17%	9.04%	1.18
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 15.209821262 P-Value= 0.00010								
1	PCTGOVWORKERS	6.2999992371<=PCTGOVWORKERS<=11.899993896	3	140	143	10.06%	2.10%	0.27
2		12<=PCTGOVWORKERS<=17.799987793	45	662	707	49.72%	6.36%	0.83
3		17.899993896<=PCTGOVWORKERS<=41.299987793	61	511	572	40.23%	10.66%	1.39
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 15.16597017 P-Value= 0.00010								
1	PCTPOORUNRELATED	0<=PCTPOORUNRELATED<=24.599990845	9	275	284	19.97%	3.17%	0.41
2		24.699996948<=PCTPOORUNRELATED<=35.599975586	53	661	714	50.21%	7.42%	0.97
3		35.699981689<=PCTPOORUNRELATED<=76	47	377	424	29.82%	11.08%	1.45
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 15.035921572 P-Value= 0.00011								
1	PCTHHINC10	0<=PCTHHINC10<=4.3999977112	12	270	282	19.83%	4.26%	0.56
2		4.5<=PCTHHINC10<=9.8999938965	76	923	999	70.25%	7.61%	0.99
3		10<=PCTHHINC10<=18.299987793	21	120	141	9.92%	14.89%	1.94
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 15.038679135 P-Value= 0.00011								
1	PCTHHINC25	3.0999984741<=PCTHHINC25<=14.199996948	86	1,190	1,276	89.73%	6.74%	0.88
2		14.299995422<=PCTHHINC25<=22.199996948	23	123	146	10.27%	15.75%	2.06
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 14.945136691 P-Value= 0.00011								
1	PCTOVER18MALES	72.799987793<=PCTOVER18MALES<=74.899963379	10	275	285	20.04%	3.51%	0.46
2		75<=PCTOVER18MALES<=96.399963379	79	914	993	69.83%	7.96%	1.04
3		59.799987793<=PCTOVER18MALES<=72.699951172	20	124	144	10.13%	13.89%	1.81
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 14.925547836 P-Value= 0.00011								
1	PCTOVER21	69.599975586<=PCTOVER21<=75.299987793	46	801	847	59.56%	5.43%	0.71
2		75.399963379<=PCTOVER21<=91.099975586	46	384	430	30.24%	10.70%	1.40
3		57.599975586<=PCTOVER21<=69.5	17	128	145	10.20%	11.72%	1.53
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 14.91464344 P-Value= 0.00011								
1	PAYMENT_XIX_NOT_APPLICABLE	4<=PAYMENT_XIX_NOT_APPLICABLE<=88	6	273	279	19.62%	2.15%	0.28
2		?,0<=PAYMENT_XIX_NOT_APPLICABLE<=3	103	1,040	1,143	80.38%	9.01%	1.18
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 14.835854721 P-Value= 0.00012								
1	PCTHHINC75	9.8999938965<=PCTHHINC75<=19.399993896	59	941	1,000	70.32%	5.90%	0.77
2		2.8999996185<=PCTHHINC75<=9.7999954224	50	372	422	29.68%	11.85%	1.55
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 14.790751554 P-Value= 0.00012								
1	PCTPOOR	2.5999984741<=PCTPOOR<=23.5	72	1,068	1,140	80.17%	6.32%	0.82
2		23.599990845<=PCTPOOR<=49.699981689	37	245	282	19.83%	13.12%	1.71
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 14.750801568 P-Value= 0.00012								
1	PCTFBMINUSSEA	3.8999996185<=PCTFBMINUSSEA<=6.8999977112	8	287	295	20.75%	2.71%	0.35
2		7<=PCTFBMINUSSEA<=53.299987793	20	262	282	19.83%	7.09%	0.93
3		0<=PCTFBMINUSSEA<=3.7999992371	81	764	845	59.42%	9.59%	1.25
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTFOREIGNBORN	3.8999996185<=PCTFOREIGNBORN<=6.8999977112	8	287	295	20.75%	2.71%	0.35
2		7<=PCTFOREIGNBORN<=53.299987793	20	262	282	19.83%	7.09%	0.93
3		0<=PCTFOREIGNBORN<=3.7999992371	81	764	845	59.42%	9.59%	1.25
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
 AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
 109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTUSNATIVE	93.099975586<=PCTUSNATIVE<=96.099975586	8	287	295	20.75%	2.71%	0.35
2		46.699981689<=PCTUSNATIVE<=93	20	262	282	19.83%	7.09%	0.93
3		96.199951172<=PCTUSNATIVE<=100	81	764	845	59.42%	9.59%	1.25
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 14.687209683 P-Value= 0.00013								
1	PCTHHINC200	1.6999998093<=PCTHHINC200<=31.199996948	59	940	999	70.25%	5.91%	0.77
2		0<=PCTHHINC200<=1.5999994278	50	373	423	29.75%	11.82%	1.54
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 14.641496472 P-Value= 0.00013								
1	PCTOVER65MALES	2.2999992371<=PCTOVER65MALES<=15.599998474	35	672	707	49.72%	4.95%	0.65
2		15.699996948<=PCTOVER65MALES<=53.5	74	641	715	50.28%	10.35%	1.35
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 14.289282569 P-Value= 0.00016								
1	PCTINDIAN1	0.1999999285<=PCTINDIAN1<=44	63	978	1,041	73.21%	6.05%	0.79
2		0<=PCTINDIAN1<=0.0999999642	46	335	381	26.79%	12.07%	1.58
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 14.264603634 P-Value= 0.00016								
1	PCTNOINTERNET	3.3999996185<=PCTNOINTERNET<=11.699996948	19	405	424	29.82%	4.48%	0.58
2		11.799995422<=PCTNOINTERNET<=19.399993896	55	655	710	49.93%	7.75%	1.01
3		19.5<=PCTNOINTERNET<=40	35	253	288	20.25%	12.15%	1.59
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 14.251046129 P-Value= 0.00016								
1	PCTCONSTRUCTION	4.7999992371<=PCTCONSTRUCTION<=7.2999992371	30	560	590	41.49%	5.08%	0.66
2		7.3999977112<=PCTCONSTRUCTION<=25.5	60	637	697	49.02%	8.61%	1.12
3		0<=PCTCONSTRUCTION<=4.6999969482	19	116	135	9.49%	14.07%	1.84
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 14.242392856 P-Value= 0.00016								
1	PCTPOVRATIOOVER2	56.5<=PCTPOVRATIOOVER2<=93.799987793	47	808	855	60.13%	5.50%	0.72
2		26.699996948<=PCTPOVRATIOOVER2<=56.399993896	62	505	567	39.87%	10.93%	1.43
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 14.220457125 P-Value= 0.00016								
1	PCTCIVLABFORCEFEMALES	27.699996948<=PCTCIVLABFORCEFEMALES<=38.199981689	15	406	421	29.61%	3.56%	0.46
2		12.199996948<=PCTCIVLABFORCEFEMALES<=27.599990845	94	907	1,001	70.39%	9.39%	1.23
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTLABORFORCEFEMALES	27.799987793<=PCTLABORFORCEFEMALES<=38.599975586	15	406	421	29.61%	3.56%	0.46
2		12.199996948<=PCTLABORFORCEFEMALES<=27.699996948	94	907	1,001	70.39%	9.39%	1.23
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 14.192166407 P-Value= 0.00017								
1	PCTDRIVEALONE	80.699951172<=PCTDRIVEALONE<=87.5	50	806	856	60.20%	5.84%	0.76
2		34.299987793<=PCTDRIVEALONE<=80.599975586	39	388	427	30.03%	9.13%	1.19
3		87.599975586<=PCTDRIVEALONE<=96.299987793	20	119	139	9.77%	14.39%	1.88
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 14.116497551 P-Value= 0.00017								
1	PCTFARMFISHOCCS	0<=PCTFARMFISHOCCS<=1.1999998093	47	807	854	60.06%	5.50%	0.72
2		1.2999992371<=PCTFARMFISHOCCS<=22.699996948	62	506	568	39.94%	10.92%	1.42
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 14.049596846 P-Value= 0.00018								
1	PCTOVER15	78.299987793<=PCTOVER15<=83.699951172	59	935	994	69.90%	5.94%	0.77
2		83.799987793<=PCTOVER15<=94	32	249	281	19.76%	11.39%	1.49
3		69.5<=PCTOVER15<=78.199951172	18	129	147	10.34%	12.24%	1.60
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 13.675243652 P-Value= 0.00022								
1	PCTHHINC100	8.5999984741<=PCTHHINC100<=48.5	59	933	992	69.76%	5.95%	0.78
2		2<=PCTHHINC100<=8.5	50	380	430	30.24%	11.63%	1.52
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties
Chi-Square= 13.602283446 P-Value= 0.00023				
1	PCTEDUC_HEALTH_SOCSVCS	5.6999969482<=PCTEDUC_HEALTH_SOCSVCS<=22.399993896	36	675
2		22.5<=PCTEDUC_HEALTH_SOCSVCS<=49.5	73	638
9			109	1,313

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All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 13.602283446 P-Value= 0.00023			
711	50.00%	5.06%	0.66
711	50.00%	10.27%	1.34
1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 13.385515675 P-Value= 0.00025								
1	PCTNONHISPWHITE	39.799987793<=PCTNONHISPWHITE<=99.699951172	87	1,192	1,279	89.94%	6.80%	0.89
2		0.6999998093<=PCTNONHISPWHITE<=39.599975586	22	121	143	10.06%	15.38%	2.01
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 13.278059158 P-Value= 0.00027								
1	PCTPUBLICADMIN	0<=PCTPUBLICADMIN<=5.2999992371	35	660	695	48.87%	5.04%	0.66
2		5.3999977112<=PCTPUBLICADMIN<=29.199996948	74	653	727	51.13%	10.18%	1.33
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 13.228753241 P-Value= 0.00028								
1	PCTFAMHHINC200	2.5999984741<=PCTFAMHHINC200<=41.699981689	48	811	859	60.41%	5.59%	0.73
2		0<=PCTFAMHHINC200<=2.5	61	502	563	39.59%	10.83%	1.41
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 13.175953696 P-Value= 0.00028								
1	PCTEMPLOYEDFEMALES	89.899963379<=PCTEMPLOYEDFEMALES<=96.599975586	73	1,067	1,140	80.17%	6.40%	0.84
2		72.299987793<=PCTEMPLOYEDFEMALES<=89.799987793	17	125	142	9.99%	11.97%	1.56
3		96.699951172<=PCTEMPLOYEDFEMALES<=100	19	121	140	9.85%	13.57%	1.77
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 13.155560273 P-Value= 0.00029								
1	MEDIANAGE	21.699996948<=MEDIANAGE<=40.5	36	671	707	49.72%	5.09%	0.66
2		40.599975586<=MEDIANAGE<=67	73	642	715	50.28%	10.21%	1.33
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 13.120639888 P-Value= 0.00029								
1	PCTUNMARRIEDGIVINGBIRTH	25.399993896<=PCTUNMARRIEDGIVINGBIRTH<=49	37	670	707	49.72%	5.23%	0.68
2		?,0<=PCTUNMARRIEDGIVINGBIRTH<=25.299987793	25	264	289	20.32%	8.65%	1.13
3		49.099975586<=PCTUNMARRIEDGIVINGBIRTH<=100	47	379	426	29.96%	11.03%	1.44
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 12.885723223 P-Value= 0.00033								
1	PCTBOATRV	0.0999999642<=PCTBOATRV<=0.3999998569	33	628	661	46.48%	4.99%	0.65
2		0<=PCTBOATRV<=0	61	568	629	44.23%	9.70%	1.27
3		0.5<=PCTBOATRV<=2.3999996185	15	117	132	9.28%	11.36%	1.48
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 12.872476245 P-Value= 0.00033								
1	PCTOTHERCOMMUTE	0.3999998569<=PCTOTHERCOMMUTE<=12.5	89	1,206	1,295	91.07%	6.87%	0.90
2		0<=PCTOTHERCOMMUTE<=0.2999999523	20	107	127	8.93%	15.75%	2.05
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 12.74716161 P-Value= 0.00036								
1	PCTASSOCIATES	8.0999984741<=PCTASSOCIATES<=18.699996948	27	555	582	40.93%	4.64%	0.61
2		1.0999994278<=PCTASSOCIATES<=8	82	758	840	59.07%	9.76%	1.27
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 12.709443462 P-Value= 0.00036								
1	PCTBLACK2	1.2999992371<=PCTBLACK2<=32.5	60	936	996	70.04%	6.02%	0.79
2		32.599975586<=PCTBLACK2<=87.5	32	252	284	19.97%	11.27%	1.47
3		0<=PCTBLACK2<=1.1999998093	17	125	142	9.99%	11.97%	1.56
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 12.647899723 P-Value= 0.00038								
1	PCTHHFKEROSENE	0.0999999642<=PCTHHFKEROSENE<=0.7999997139	30	581	611	42.97%	4.91%	0.64
2		0.8999996185<=PCTHHFKEROSENE<=32.599975586	38	394	432	30.38%	8.80%	1.15
3		0<=PCTHHFKEROSENE<=0	41	338	379	26.65%	10.82%	1.41
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 12.652057831 P-Value= 0.00038								
1	AVGHHSOCSEC	17349<=AVGHHSOCSEC<=25334	60	936	996	70.04%	6.02%	0.79
2		11087<=AVGHHSOCSEC<=17348	49	377	426	29.96%	11.50%	1.50
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 12.637105715 P-Value= 0.00038								
1	PCTHVAL50	0.2999999523<=PCTHVAL50<=24.099990845	26	541	567	39.87%	4.59%	0.60
2		24.199996948<=PCTHVAL50<=51.299987793	83	772	855	60.13%	9.71%	1.27
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 12.53387562 P-Value= 0.00040								
1	PCTHIGHSCHOOLORMORE	85.099975586<=PCTHIGHSCHOOLORMORE<=98.799987793	26	540	566	39.80%	4.59%	0.60
2		33.699981689<=PCTHIGHSCHOOLORMORE<=85	83	773	856	60.20%	9.70%	1.26
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 12.312187578 P-Value= 0.00045								
1	PCTINNURSERY	4.3999977112<=PCTINNURSERY<=8.1999969482	60	926	986	69.34%	6.09%	0.79
2		?,0<=PCTINNURSERY<=4.2999992371	30	260	290	20.39%	10.34%	1.35
3		8.2999954224<=PCTINNURSERY<=18.599990845	19	127	146	10.27%	13.01%	1.70
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 12.316221891 P-Value= 0.00045								
1	PCTUNITS3_4	0.5999999046<=PCTUNITS3_4<=13	89	1,204	1,293	90.93%	6.88%	0.90
2		0<=PCTUNITS3_4<=0.5	20	109	129	9.07%	15.50%	2.02
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 12.274328751 P-Value= 0.00046								
1	PCTINKINDERGARTEN	3.3999996185<=PCTINKINDERGARTEN<=7.5999984741	73	1,063	1,136	79.89%	6.43%	0.84
2		7.6999969482<=PCTINKINDERGARTEN<=24.5	18	128	146	10.27%	12.33%	1.61
3		? ,0<=PCTINKINDERGARTEN<=3.2999992371	18	122	140	9.85%	12.86%	1.68
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 12.276688149 P-Value= 0.00046								
1	PCTSOMEHIGHSCHOOL	1<=PCTSOMEHIGHSCHOOL<=11.199996948	48	803	851	59.85%	5.64%	0.74
2		11.299995422<=PCTSOMEHIGHSCHOOL<=33.199981689	61	510	571	40.15%	10.68%	1.39
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 12.275768923 P-Value= 0.00046								
1	PCTNUMHHPUBASSIST	1.1999998093<=PCTNUMHHPUBASSIST<=12.699996948	75	1,082	1,157	81.36%	6.48%	0.85
2		0<=PCTNUMHHPUBASSIST<=1.0999994278	34	231	265	18.64%	12.83%	1.67
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 12.129394643 P-Value= 0.00050								
1	PCTFAMHHINC15	0<=PCTFAMHHINC15<=8.2999954224	27	549	576	40.51%	4.69%	0.61
2		8.3999938965<=PCTFAMHHINC15<=33.099975586	82	764	846	59.49%	9.69%	1.26
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties
Chi-Square= 12.11721052 P-Value= 0.00050				
1	PCTCASHRENTEROVER30PCT	34.299987793<=PCTCASHRENTEROVER30PCT<=61.399993896	60	932
2		0<=PCTCASHRENTEROVER30PCT<=34.199981689	49	381
9			109	1,313

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 12.11721052 P-Value= 0.00050			
992	69.76%	6.05%	0.79
430	30.24%	11.40%	1.49
1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 12.090089262 P-Value= 0.00051								
1	PCTENROLLEDOVER3	20.699996948<=PCTENROLLEDOVER3<=61.199981689	73	1,062	1,135	79.82%	6.43%	0.84
2		0<=PCTENROLLEDOVER3<=20.599990845	36	251	287	20.18%	12.54%	1.64
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 11.992860839 P-Value= 0.00053								
1	PCTSOMECOLLEGE	20.299987793<=PCTSOMECOLLEGE<=23.599990845	27	544	571	40.15%	4.73%	0.62
2		4.0999984741<=PCTSOMECOLLEGE<=20.199996948	52	511	563	39.59%	9.24%	1.20
3		23.699996948<=PCTSOMECOLLEGE<=38.699981689	30	258	288	20.25%	10.42%	1.36
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 11.979641033 P-Value= 0.00054								
1	PCTWOMEN35TO50	14.099998474<=PCTWOMEN35TO50<=23	17	412	429	30.17%	3.96%	0.52
2		23.099990845<=PCTWOMEN35TO50<=100	25	257	282	19.83%	8.87%	1.16
3		?,0<=PCTWOMEN35TO50<=14	67	644	711	50.00%	9.42%	1.23
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 11.986893526 P-Value= 0.00054								
1	PCTBROADBANDINTERNET	89.199951172<=PCTBROADBANDINTERNET<=96.299987793	8	278	286	20.11%	2.80%	0.36
2		59.699981689<=PCTBROADBANDINTERNET<=89.099975586	101	1,035	1,136	79.89%	8.89%	1.16
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

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Chi-Square= 11.787633997 P-Value= 0.00060								
1	PCTBORNOUTSIDEUS	2.8999996185<=PCTBORNOUTSIDEUS<=56.199981689	49	810	859	60.41%	5.70%	0.74
2		0<=PCTBORNOUTSIDEUS<=2.7999992371	60	503	563	39.59%	10.66%	1.39
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 11.722703388 P-Value= 0.00062								
1	PCTNONINSTUNDER18	24.5<=PCTNONINSTUNDER18<=28.199996948	28	546	574	40.37%	4.88%	0.64
2		8.5999984741<=PCTNONINSTUNDER18<=24.399993896	64	639	703	49.44%	9.10%	1.19
3		28.299987793<=PCTNONINSTUNDER18<=39.799987793	17	128	145	10.20%	11.72%	1.53
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 11.717251997 P-Value= 0.00062								
1	PCTDIFFCOUNTY	39.199981689<=PCTDIFFCOUNTY<=49.5	17	409	426	29.96%	3.99%	0.52
2		?,12.399993896<=PCTDIFFCOUNTY<=39.099975586	25	260	285	20.04%	8.77%	1.14
3		49.599975586<=PCTDIFFCOUNTY<=100	67	644	711	50.00%	9.42%	1.23
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties
Chi-Square= 11.701074057 P-Value= 0.00062				
1	PCTDIFFHOUSESAMECOUNTY	50.5<=PCTDIFFHOUSESAMECOUNTY<=60.799987793	17	409
2		60.899993896<=PCTDIFFHOUSESAMECOUNTY<=87.599975586	25	259
3		? ,0<=PCTDIFFHOUSESAMECOUNTY<=50.399993896	67	645
9			109	1,313

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 11.701074057 P-Value= 0.00062			
426	29.96%	3.99%	0.52
284	19.97%	8.80%	1.15
712	50.07%	9.41%	1.23
1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 11.524923928 P-Value= 0.00069								
1	DEATHS	0<=DEATHS<=5	16	394	410	28.83%	3.90%	0.51
2		6<=DEATHS<=3334	93	919	1,012	71.17%	9.19%	1.20
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 11.4276924 P-Value= 0.00072								
1	PCTSINGLEFEMALEFAMILIES	11.799995422<=PCTSINGLEFEMALEFAMILIES<=14.599998474	19	406	425	29.89%	4.47%	0.58
2		0<=PCTSINGLEFEMALEFAMILIES<=11.699996948	45	529	574	40.37%	7.84%	1.02
3		14.699996948<=PCTSINGLEFEMALEFAMILIES<=36.199981689	45	378	423	29.75%	10.64%	1.39
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 11.329296373 P-Value= 0.00076								
1	PCTINCOLLEGE	20<=PCTINCOLLEGE<=88.299987793	27	541	568	39.94%	4.75%	0.62
2		? ,0<=PCTINCOLLEGE<=19.899993896	82	772	854	60.06%	9.60%	1.25
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 11.310177146 P-Value= 0.00077								
1	PCTAGE35_44	10.199996948<=PCTAGE35_44<=18.899993896	88	1,192	1,280	90.01%	6.88%	0.90
2		4.5<=PCTAGE35_44<=10.099998474	21	121	142	9.99%	14.79%	1.93
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTDIFFCNTYSAMESTATE	?,0<=PCTDIFFCNTYSAMESTATE<=56.799987793	88	1,192	1,280	90.01%	6.88%	0.90
2		56.899993896<=PCTDIFFCNTYSAMESTATE<=100	21	121	142	9.99%	14.79%	1.93
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTDIFFSTATE	5.1999969482<=PCTDIFFSTATE<=77.599975586	88	1,192	1,280	90.01%	6.88%	0.90
2		?,0<=PCTDIFFSTATE<=5.0999984741	21	121	142	9.99%	14.79%	1.93
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties
Chi-Square= 11.22740415 P-Value= 0.00081				
1	PCTPERSONSINOWNERUNITS	75.799987793<=PCTPERSONSINOWNERUNITS<=88.199951172	18	267
2		15.199996948<=PCTPERSONSINOWNERUNITS<=73.799987793	70	924
3		73.899963379<=PCTPERSONSINOWNERUNITS<=75.699951172	21	122
9			109	1,313

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 11.22740415 P-Value= 0.00081			
285	20.04%	6.32%	0.82
994	69.90%	7.04%	0.92
143	10.06%	14.69%	1.92
1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 11.045238723 P-Value= 0.00089								
1	PCTHISPANICPOP	3.5<=PCTHISPANICPOP<=14.199996948	27	537	564	39.66%	4.79%	0.62
2		14.399993896<=PCTHISPANICPOP<=99.099975586	26	259	285	20.04%	9.12%	1.19
3		0<=PCTHISPANICPOP<=3.3999996185	56	517	573	40.30%	9.77%	1.27
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
 AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
 109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTNONHISPPOP	85.799987793<=PCTNONHISPPOP<=96.5	27	537	564	39.66%	4.79%	0.62
2		0.8999996185<=PCTNONHISPPOP<=85.599975586	26	259	285	20.04%	9.12%	1.19
3		96.599975586<=PCTNONHISPPOP<=100	56	517	573	40.30%	9.77%	1.27
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 10.834515653 P-Value= 0.00100								
1	PCTPOVRATIOUNDERHALF	0<=PCTPOVRATIOUNDERHALF<=12.299995422	88	1,190	1,278	89.87%	6.89%	0.90
2		12.399993896<=PCTPOVRATIOUNDERHALF<=26.5	21	123	144	10.13%	14.58%	1.90
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 10.808441634 P-Value= 0.00101								
1	PCTNONHISPHAWNPI	0.0999999642<=PCTNONHISPHAWNPI<=2.1999988556	13	343	356	25.04%	3.65%	0.48
2		0<=PCTNONHISPHAWNPI<=0	96	970	1,066	74.96%	9.01%	1.17
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 10.648414127 P-Value= 0.00110								
1	PCTSINGLEMOTHERS	4.7999992371<=PCTSINGLEMOTHERS<=9.8999938965	63	939	1,002	70.46%	6.29%	0.82
2		0<=PCTSINGLEMOTHERS<=4.6999969482	27	249	276	19.41%	9.78%	1.28
3		10<=PCTSINGLEMOTHERS<=18.699996948	19	125	144	10.13%	13.19%	1.72
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 10.653378805 P-Value= 0.00110								
1	PCTNOTINSUREDUNDER65	2.6999988556<=PCTNOTINSUREDUNDER65<=17.099990845	61	931	992	69.76%	6.15%	0.80
2		17.199996948<=PCTNOTINSUREDUNDER65<=42.399993896	48	382	430	30.24%	11.16%	1.46
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTRETAILTRADE	10.699996948<=PCTRETAILTRADE<=22.299987793	61	931	992	69.76%	6.15%	0.80
2		0.7999997139<=PCTRETAILTRADE<=10.599998474	48	382	430	30.24%	11.16%	1.46
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 10.635894168 P-Value= 0.00111								
1	PCTOVER18FEMALES	74.399963379<=PCTOVER18FEMALES<=77.5	18	399	417	29.32%	4.32%	0.56
2		77.599975586<=PCTOVER18FEMALES<=92.899963379	75	790	865	60.83%	8.67%	1.13
3		64.199951172<=PCTOVER18FEMALES<=74.299987793	16	124	140	9.85%	11.43%	1.49
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 10.620175861 P-Value= 0.00112								
1	PCTVACANTSEASONAL	0<=PCTVACANTSEASONAL<=20.199996948	38	671	709	49.86%	5.36%	0.70
2		20.299987793<=PCTVACANTSEASONAL<=90.799987793	71	642	713	50.14%	9.96%	1.30
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 10.554098413 P-Value= 0.00116								
1	PCTMARRIEDCOUPLES	46.599975586<=PCTMARRIEDCOUPLES<=48.599975586	4	143	147	10.34%	2.72%	0.35
2		48.699981689<=PCTMARRIEDCOUPLES<=74.099975586	60	789	849	59.70%	7.07%	0.92
3		21.099990845<=PCTMARRIEDCOUPLES<=46.5	45	381	426	29.96%	10.56%	1.38
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 10.420221917 P-Value= 0.00125								
1	PCTOVER25	63.699981689<=PCTOVER25<=68.699951172	28	544	572	40.23%	4.90%	0.64
2		68.799987793<=PCTOVER25<=89.5	67	643	710	49.93%	9.44%	1.23
3		38.799987793<=PCTOVER25<=63.599975586	14	126	140	9.85%	10.00%	1.30
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 10.295367918 P-Value= 0.00133								
1	PCTSEPARATED	1.5<=PCTSEPARATED<=3.1999988556	62	938	1,000	70.32%	6.20%	0.81
2		3.2999992371<=PCTSEPARATED<=9	30	246	276	19.41%	10.87%	1.42
3		0<=PCTSEPARATED<=1.3999996185	17	129	146	10.27%	11.64%	1.52
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 10.296804741 P-Value= 0.00133								
1	PCTFAMHHINC50	15.799995422<=PCTFAMHHINC50<=38.799987793	89	1,196	1,285	90.37%	6.93%	0.90
2		6<=PCTFAMHHINC50<=15.699996948	20	117	137	9.63%	14.60%	1.90
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 10.216332841 P-Value= 0.00139								
1	PCTFAMHHINC100	12.399993896<=PCTFAMHHINC100<=61.899993896	50	807	857	60.27%	5.83%	0.76
2		0<=PCTFAMHHINC100<=12.299995422	59	506	565	39.73%	10.44%	1.36
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 10.134321949 P-Value= 0.00146								
1	PCTNONHISPBLACK	3.5<=PCTNONHISPBLACK<=14.599998474	18	407	425	29.89%	4.24%	0.55
2		0<=PCTNONHISPBLACK<=3.3999996185	38	390	428	30.10%	8.88%	1.16
3		14.699996948<=PCTNONHISPBLACK<=87.399963379	53	516	569	40.01%	9.31%	1.22
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 10.089796443 P-Value= 0.00149								
1	PCTHUSMORTOVER30PCT	27.899993896<=PCTHUSMORTOVER30PCT<=29.599990845	2	144	146	10.27%	1.37%	0.18
2		? ,0<=PCTHUSMORTOVER30PCT<=27.799987793	67	785	852	59.92%	7.86%	1.03
3		29.699996948<=PCTHUSMORTOVER30PCT<=66.799987793	40	384	424	29.82%	9.43%	1.23
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 9.9817122286 P-Value= 0.00158								
1	PCTSAMEHOUSE	51.799987793<=PCTSAMEHOUSE<=89.199951172	62	936	998	70.18%	6.21%	0.81
2		89.299987793<=PCTSAMEHOUSE<=100	47	377	424	29.82%	11.08%	1.45
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 9.9369438244 P-Value= 0.00162								
1	AVGOWNERHHSIZE	2.52<=AVGOWNERHHSIZE<=3.98	49	793	842	59.21%	5.82%	0.76
2		1.82<=AVGOWNERHHSIZE<=2.51	60	520	580	40.79%	10.34%	1.35
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 9.933866138 P-Value= 0.00162								
1	PCTOVER16FEMALES	28.899993896<=PCTOVER16FEMALES<=53	88	1,186	1,274	89.59%	6.91%	0.90
2		53.099975586<=PCTOVER16FEMALES<=58.299987793	21	127	148	10.41%	14.19%	1.85
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 9.8311131449 P-Value= 0.00172								
1	PCTAGE65_74	2.5<=PCTAGE65_74<=9.6999969482	29	551	580	40.79%	5.00%	0.65
2		9.7999954224<=PCTAGE65_74<=34	80	762	842	59.21%	9.50%	1.24
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 9.7439766877 P-Value= 0.00180								
1	PCTUNMARRIEDPARTNER	1.8999996185<=PCTUNMARRIEDPARTNER<=2.7999992371	38	658	696	48.95%	5.46%	0.71
2		0<=PCTUNMARRIEDPARTNER<=1.7999992371	57	543	600	42.19%	9.50%	1.24
3		2.8999996185<=PCTUNMARRIEDPARTNER<=6.3999977112	14	112	126	8.86%	11.11%	1.45
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 9.6946242136 P-Value= 0.00185								
1	MEDIANOWNER COSTSMORT	1032<=MEDIANOWNER COSTSMORT<=3269	50	802	852	59.92%	5.87%	0.77
2		? ,657<=MEDIANOWNER COSTSMORT<=1031	59	511	570	40.08%	10.35%	1.35
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTFAMSWITHKIDS	24.899993896<=PCTFAMSWITHKIDS<=50.199981689	50	802	852	59.92%	5.87%	0.77
2		5.2999992371<=PCTFAMSWITHKIDS<=24.799987793	59	511	570	40.08%	10.35%	1.35
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 9.643118222 P-Value= 0.00190								
1	PCTAGE60_64	1.5<=PCTAGE60_64<=6.5	39	673	712	50.07%	5.48%	0.71
2		6.5999984741<=PCTAGE60_64<=13.699996948	70	640	710	49.93%	9.86%	1.29
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 9.5075643849 P-Value= 0.00205								
1	PCTGRANDPRNTSCARING1OR2	3.1999988556<=PCTGRANDPRNTSCARING1OR2<=100	88	1,184	1,272	89.45%	6.92%	0.90
2		?,0<=PCTGRANDPRNTSCARING1OR2<=3.0999984741	21	129	150	10.55%	14.00%	1.83
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 9.4411292318 P-Value= 0.00212								
1	PCTFINANCE_INS	3.0999984741<=PCTFINANCE_INS<=16.699996948	75	1,064	1,139	80.10%	6.58%	0.86
2		0<=PCTFINANCE_INS<=3	34	249	283	19.90%	12.01%	1.57
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 9.299226454 P-Value= 0.00229								
1	PCTMOBILEHOMES	0<=PCTMOBILEHOMES<=26.299987793	75	1,063	1,138	80.03%	6.59%	0.86
2		26.399993896<=PCTMOBILEHOMES<=59.299987793	34	250	284	19.97%	11.97%	1.56
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 9.0736298151 P-Value= 0.00259								
1	PCTPERSONSPERROOMLOW	97.5<=PCTPERSONSPERROOMLOW<=99	42	676	718	50.49%	5.85%	0.76
2		78.8<=PCTPERSONSPERROOMLOW<=97.4	48	503	551	38.75%	8.71%	1.14
3		99.1<=PCTPERSONSPERROOMLOW<=100	19	134	153	10.76%	12.42%	1.62
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 8.9068345497 P-Value= 0.00284								
1	PCTBLACK1	3.5999984741<=PCTBLACK1<=14.799995422	19	406	425	29.89%	4.47%	0.58
2		0<=PCTBLACK1<=3.5	37	392	429	30.17%	8.62%	1.13
3		14.899993896<=PCTBLACK1<=87.399963379	53	515	568	39.94%	9.33%	1.22
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 8.8621145059 P-Value= 0.00291								
1	AVGHHRETINC	26273<=AVGHHRETINC<=30077	2	140	142	9.99%	1.41%	0.18
2		?,10890<=AVGHHRETINC<=26268	94	1,044	1,138	80.03%	8.26%	1.08
3		30124<=AVGHHRETINC<=55061	13	129	142	9.99%	9.15%	1.19
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 8.6180600464 P-Value= 0.00333								
1	PCTDIFFHOUSE	10.599998474<=PCTDIFFHOUSE<=45.899993896	62	924	986	69.34%	6.29%	0.82
2		0<=PCTDIFFHOUSE<=10.5	47	389	436	30.66%	10.78%	1.41
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 8.4055613548 P-Value= 0.00374								
1	PCTCARPOOL	9.6999969482<=PCTCARPOOL<=11	10	267	277	19.48%	3.61%	0.47
2		0<=PCTCARPOOL<=9.5999984741	59	656	715	50.28%	8.25%	1.08
3		11.099998474<=PCTCARPOOL<=34.199981689	40	390	430	30.24%	9.30%	1.21
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 8.3561142282 P-Value= 0.00384								
1	PCTHHFUTILGAS	20.599990845<=PCTHHFUTILGAS<=79.299987793	40	671	711	50.00%	5.63%	0.73
2		0<=PCTHHFUTILGAS<=20.5	69	642	711	50.00%	9.70%	1.27
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 8.2194713694 P-Value= 0.00414								
1	PCTBUILT1970_1979	3.5999984741<=PCTBUILT1970_1979<=18.599990845	63	931	994	69.90%	6.34%	0.83
2		18.699996948<=PCTBUILT1970_1979<=38.599975586	46	382	428	30.10%	10.75%	1.40
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 8.1069673594 P-Value= 0.00441								
1	PCTNOTINSUREDUNDER18	3.8999996185<=PCTNOTINSUREDUNDER18<=4.5	3	129	132	9.28%	2.27%	0.30
2		4.5999984741<=PCTNOTINSUREDUNDER18<=31.899993896	64	795	859	60.41%	7.45%	0.97
3		0<=PCTNOTINSUREDUNDER18<=3.7999992371	42	389	431	30.31%	9.74%	1.27
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 8.0892434494 P-Value= 0.00445								
1	PCTUNITS1	34.799987793<=PCTUNITS1<=59.199981689	6	139	145	10.20%	4.14%	0.54
2		64.299987793<=PCTUNITS1<=96.599975586	85	1,053	1,138	80.03%	7.47%	0.97
3		59.399993896<=PCTUNITS1<=64.199951172	18	121	139	9.77%	12.95%	1.69
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 7.9487662983 P-Value= 0.00481								
1	PCTEMPLOYEDCLF	92.399963379<=PCTEMPLOYEDCLF<=96.099975586	53	806	859	60.41%	6.17%	0.80
2		74.199951172<=PCTEMPLOYEDCLF<=92.299987793	39	382	421	29.61%	9.26%	1.21
3		96.199951172<=PCTEMPLOYEDCLF<=100	17	125	142	9.99%	11.97%	1.56
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTUNEMPLOYEDCLF	3.8999996185<=PCTUNEMPLOYEDCLF<=7.5999984741	53	806	859	60.41%	6.17%	0.80
2		7.6999969482<=PCTUNEMPLOYEDCLF<=25.799987793	39	382	421	29.61%	9.26%	1.21
3		0<=PCTUNEMPLOYEDCLF<=3.7999992371	17	125	142	9.99%	11.97%	1.56
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 7.8488476797 P-Value= 0.00509								
1	PCTPUBLICTRANS	0.0999999642<=PCTPUBLICTRANS<=34.799987793	67	970	1,037	72.93%	6.46%	0.84
2		0<=PCTPUBLICTRANS<=0	42	343	385	27.07%	10.91%	1.42
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 7.8460089729 P-Value= 0.00509								
1	PCTWALKTOWORK	0<=PCTWALKTOWORK<=3.5999984741	90	1,193	1,283	90.23%	7.01%	0.92
2		3.6999988556<=PCTWALKTOWORK<=36	19	120	139	9.77%	13.67%	1.78
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties
Chi-Square= 7.5811183265 P-Value= 0.00590				
1	PCTHUSNOMORTOVER30PCT	0<=PCTHUSNOMORTOVER30PCT<=11.099998474	40	662
2		11.199996948<=PCTHUSNOMORTOVER30PCT<=30.099990845	69	651
9			109	1,313

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 7.5811183265 P-Value= 0.00590			
702	49.37%	5.70%	0.74
720	50.63%	9.58%	1.25
1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 7.5681115997 P-Value= 0.00594								
1	AVGCOMMUTE	22.7<=AVGCOMMUTE<=25.1	11	275	286	20.11%	3.85%	0.50
2		? ,8.3999999999<=AVGCOMMUTE<=22.6	35	393	428	30.10%	8.18%	1.07
3		25.2<=AVGCOMMUTE<=44.4	63	645	708	49.79%	8.90%	1.16
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 7.5139882316 P-Value= 0.00612								
1	PCTOTHERRELATIVE	5.1999969482<=PCTOTHERRELATIVE<=7.5	31	549	580	40.79%	5.34%	0.70
2		7.5999984741<=PCTOTHERRELATIVE<=22.399993896	64	635	699	49.16%	9.16%	1.19
3		0<=PCTOTHERRELATIVE<=5.0999984741	14	129	143	10.06%	9.79%	1.28
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 7.5007065167 P-Value= 0.00617								
1	PCTHIGHSCHOOL	5.5<=PCTHIGHSCHOOL<=31.599990845	20	405	425	29.89%	4.71%	0.61
2		31.699996948<=PCTHIGHSCHOOL<=53.5	89	908	997	70.11%	8.93%	1.16
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 7.4647870069 P-Value= 0.00629								
1	PCTBUILT1950_1959	1.0999994278<=PCTBUILT1950_1959<=13.899993896	90	1,191	1,281	90.08%	7.03%	0.92
2		14<=PCTBUILT1950_1959<=34	19	122	141	9.92%	13.48%	1.76
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTOWNKIDSO6ALLPRNTSWK	?,31.599990845<=PCTOWNKIDSO6ALLPRNTSWK<=77.5	90	1,191	1,281	90.08%	7.03%	0.92
2		77.599975586<=PCTOWNKIDSO6ALLPRNTSWK<=100	19	122	141	9.92%	13.48%	1.76
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTWHITE2	51.899993896<=PCTWHITE2<=100	90	1,191	1,281	90.08%	7.03%	0.92
2		11.799995422<=PCTWHITE2<=51.699981689	19	122	141	9.92%	13.48%	1.76
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 7.4298202409 P-Value= 0.00642								
1	PCTPOVRATIO1TO2	0<=PCTPOVRATIO1TO2<=21.399993896	30	536	566	39.80%	5.30%	0.69
2		21.5<=PCTPOVRATIO1TO2<=42.699981689	79	777	856	60.20%	9.23%	1.20
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 7.4171403438 P-Value= 0.00646								
1	PCTHHFOTHER	0.0999999642<=PCTHHFOTHER<=0.1999999285	23	442	465	32.70%	4.95%	0.65
2		0<=PCTHHFOTHER<=0	35	375	410	28.83%	8.54%	1.11
3		0.2999999523<=PCTHHFOTHER<=9	51	496	547	38.47%	9.32%	1.22
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 7.4179230892 P-Value= 0.00646								
1	PCTFAMHHINC75	12.399993896<=PCTFAMHHINC75<=29.199996948	64	934	998	70.18%	6.41%	0.84
2		4.0999984741<=PCTFAMHHINC75<=12.299995422	45	379	424	29.82%	10.61%	1.38
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 7.2798373465 P-Value= 0.00697								
1	PCTSALESOFFOCCS	17.299987793<=PCTSALESOFFOCCS<=36.299987793	90	1,190	1,280	90.01%	7.03%	0.92
2		6.3999977112<=PCTSALESOFFOCCS<=17.199996948	19	123	142	9.99%	13.38%	1.75
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTWHITE1	50.5<=PCTWHITE1<=99.899963379	90	1,190	1,280	90.01%	7.03%	0.92
2		11.699996948<=PCTWHITE1<=50.299987793	19	123	142	9.99%	13.38%	1.75
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 7.2545226223 P-Value= 0.00707								
1	PCTAGE20_24	4.7999992371<=PCTAGE20_24<=28.699996948	89	1,181	1,270	89.31%	7.01%	0.91
2		0.8999996185<=PCTAGE20_24<=4.6999969482	20	132	152	10.69%	13.16%	1.72
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 7.2198963889 P-Value= 0.00721								
1	PCTSELFEMPWORKERS	0<=PCTSELFEMPWORKERS<=8.3999938965	76	1,057	1,133	79.68%	6.71%	0.88
2		8.5<=PCTSELFEMPWORKERS<=30.599990845	33	256	289	20.32%	11.42%	1.49
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 7.1784930515 P-Value= 0.00738								
1	PCTBUILT1990_1999	19.899993896<=PCTBUILT1990_1999<=33.699981689	20	401	421	29.61%	4.75%	0.62
2		1.0999994278<=PCTBUILT1990_1999<=19.799987793	89	912	1,001	70.39%	8.89%	1.16
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 7.1245502175 P-Value= 0.00760								
1	PAYMENT_XIX_OTHER	2<=PAYMENT_XIX_OTHER<=13	1	103	104	7.31%	0.96%	0.13
2		?,0<=PAYMENT_XIX_OTHER<=1	108	1,210	1,318	92.69%	8.19%	1.07
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 7.0985597123 P-Value= 0.00771								
1	PCTUNMARRIEDWOMEN15TO50	0<=PCTUNMARRIEDWOMEN15TO50<=63.799987793	90	1,189	1,279	89.94%	7.04%	0.92
2		64<=PCTUNMARRIEDWOMEN15TO50<=85.399963379	19	124	143	10.06%	13.29%	1.73
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 6.9765348152 P-Value= 0.00826								
1	PCTAGE0_4	5<=PCTAGE0_4<=18.599990845	77	1,065	1,142	80.31%	6.74%	0.88
2		0.8999996185<=PCTAGE0_4<=4.8999977112	32	248	280	19.69%	11.43%	1.49
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 6.9722327487 P-Value= 0.00828								
1	PCTNUMHHSUPPSECINC	0<=PCTNUMHHSUPPSECINC<=5.2999992371	21	412	433	30.45%	4.85%	0.63
2		5.3999977112<=PCTNUMHHSUPPSECINC<=29.799987793	88	901	989	69.55%	8.90%	1.16
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 6.9407653656 P-Value= 0.00843								
1	PCTLESSTHAN9TH	0<=PCTLESSTHAN9TH<=4.2999992371	20	398	418	29.40%	4.78%	0.62
2		4.3999977112<=PCTLESSTHAN9TH<=39.599975586	89	915	1,004	70.60%	8.86%	1.16
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 6.9315476537 P-Value= 0.00847								
1	PCTDISABLEELDER	32<=PCTDISABLEELDER<=34.899993896	3	139	142	9.99%	2.11%	0.28
2		20.599990845<=PCTDISABLEELDER<=31.899993896	11	131	142	9.99%	7.75%	1.01
3		35<=PCTDISABLEELDER<=72.799987793	95	1,043	1,138	80.03%	8.35%	1.09
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 6.7516562995 P-Value= 0.00937								
1	PAYMENT_XIX_PPS	2<=PAYMENT_XIX_PPS<=15	1	99	100	7.03%	1.00%	0.13
2		? ,0<=PAYMENT_XIX_PPS<=1	108	1,214	1,322	92.97%	8.17%	1.07
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 6.6758049587 P-Value= 0.00977								
1	PCTOTHER2	1.3999996185<=PCTOTHER2<=57.799987793	42	675	717	50.42%	5.86%	0.76
2		0<=PCTOTHER2<=1.2999992371	67	638	705	49.58%	9.50%	1.24
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 6.5838452012 P-Value= 0.01029								
1	PCTPUBLICINSURANCEUNDER65	0<=PCTPUBLICINSURANCEUNDER65<=22.899993896	21	407	428	30.10%	4.91%	0.64
2		23<=PCTPUBLICINSURANCEUNDER65<=66.299987793	88	906	994	69.90%	8.85%	1.15
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 6.5367282799 P-Value= 0.01057								
1	PCTNOVEHICLES	0<=PCTNOVEHICLES<=5.3999977112	32	550	582	40.93%	5.50%	0.72
2		5.5<=PCTNOVEHICLES<=35.399993896	77	763	840	59.07%	9.17%	1.20
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 6.3861575415 P-Value= 0.01150								
1	PCTHHFWOOD	0.1999999285<=PCTHHFWOOD<=1.2999992371	23	423	446	31.36%	5.16%	0.67
2		1.3999996185<=PCTHHFWOOD<=40.199981689	73	780	853	59.99%	8.56%	1.12
3		0<=PCTHHFWOOD<=0.0999999642	13	110	123	8.65%	10.57%	1.38
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 6.2889823376 P-Value= 0.01215								
1	PCTUNITS2	1.2999992371<=PCTUNITS2<=2.1999988556	21	402	423	29.75%	4.96%	0.65
2		2.2999992371<=PCTUNITS2<=17.599990845	48	511	559	39.31%	8.59%	1.12
3		0<=PCTUNITS2<=1.1999998093	40	400	440	30.94%	9.09%	1.19
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Chi-Square= 6.2800045923 P-Value= 0.01221								
1	PCTFAMHHINC150	5.5<=PCTFAMHHINC150<=18.599990845	21	403	424	29.82%	4.95%	0.65
2		0<=PCTFAMHHINC150<=5.3999977112	88	910	998	70.18%	8.82%	1.15
9			109	1,313	1,422	100%	7.67%	1.00

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AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 6.2479348746 P-Value= 0.01243								
1	PCTHAWNPI1	0.09999999642<=PCTHAWNPI1<=2.1999988556	20	389	409	28.76%	4.89%	0.64
2		0<=PCTHAWNPI1<=0	89	924	1,013	71.24%	8.79%	1.15
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 6.0055597611 P-Value= 0.01426								
1	PCTOWNEROC	26<=PCTOWNEROC<=75.299987793	65	930	995	69.97%	6.53%	0.85
2		75.399963379<=PCTOWNEROC<=89.799987793	44	383	427	30.03%	10.30%	1.34
9			109	1,313	1,422	100%	7.67%	1.00

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1	PCTRENTROCC	24.699996948<=PCTRENTROCC<=74	65	930	995	69.97%	6.53%	0.85
2		10.199996948<=PCTRENTROCC<=24.599990845	44	383	427	30.03%	10.30%	1.34
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 5.9142177833 P-Value= 0.01502								
1	PCTMANUFACTURING	4.5<=PCTMANUFACTURING<=40.199981689	91	1,191	1,282	90.15%	7.10%	0.93
2		0<=PCTMANUFACTURING<=4.3999977112	18	122	140	9.85%	12.86%	1.68
9			109	1,313	1,422	100%	7.67%	1.00

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109 or 7.67% of the 109 Counties had a Death Rate Over 5%

Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTMARRIED	40.199981689<=PCTMARRIED<=70.899963379	91	1,191	1,282	90.15%	7.10%	0.93
2		18.5<=PCTMARRIED<=40.099975586	18	122	140	9.85%	12.86%	1.68
9			109	1,313	1,422	100%	7.67%	1.00

Seventeen States in the Southern Regions of the United States
AL ,AR ,DC ,DE ,FL ,GA ,KY ,LA ,MD ,MS ,NC ,OK ,SC ,TN ,TX ,VA and WV
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Chi-Square= 5.4600896588 P-Value= 0.01946								
1	PCTAGE15_19	6.5<=PCTAGE15_19<=6.5999984741	3	119	122	8.58%	2.46%	0.32
2		6.6999969482<=PCTAGE15_19<=26.399993896	43	519	562	39.52%	7.65%	1.00
3		0<=PCTAGE15_19<=6.3999977112	63	675	738	51.90%	8.54%	1.11
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 5.4423086576 P-Value= 0.01965								
1	MEDIANEARNINGS	23789<=MEDIANEARNINGS<=69937	91	1,188	1,279	89.94%	7.11%	0.93
2		?,5330<=MEDIANEARNINGS<=23778	18	125	143	10.06%	12.59%	1.64
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
1	PCTHHINC35	4.8999977112<=PCTHHINC35<=17.099990845	91	1,188	1,279	89.94%	7.11%	0.93
2		17.199996948<=PCTHHINC35<=34	18	125	143	10.06%	12.59%	1.64
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 5.3652148866 P-Value= 0.02054								
1	MEDIANEARNINGSMALE	41467<=MEDIANEARNINGSMALE<=110360	54	799	853	59.99%	6.33%	0.83
2		25149<=MEDIANEARNINGSMALE<=41462	55	514	569	40.01%	9.67%	1.26
9			109	1,313	1,422	100%	7.67%	1.00

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Response Decile from Low to High	Variable	Optimum Bins from Low to High Odds	Counties with Death Rate Over 5%	Healthy Counties	All Counties	Percent Coverage All Counties Column Divided by 1422	Percent of Counties with DR>5	Odds Percent with DR>5 divided by Overall Percent with DR>5 7.67%
Chi-Square= 5.3593294291 P-Value= 0.02061								
1	PCTLIVEDABROAD	0.0999999642<=PCTLIVEDABROAD<=13.299995422	76	1,040	1,116	78.48%	6.81%	0.89
2		0<=PCTLIVEDABROAD<=0	33	273	306	21.52%	10.78%	1.41
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 5.0975022344 P-Value= 0.02396								
1	PCTHHFLPGAS	0<=PCTHHFLPGAS<=4.1999969482	22	400	422	29.68%	5.21%	0.68
2		4.2999992371<=PCTHHFLPGAS<=58.899993896	87	913	1,000	70.32%	8.70%	1.13
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 4.9995970002 P-Value= 0.02535								
1	PCTCOMMUTERS	67.399963379<=PCTCOMMUTERS<=98.399963379	91	1,185	1,276	89.73%	7.13%	0.93
2		98.5<=PCTCOMMUTERS<=100	18	128	146	10.27%	12.33%	1.61
9			109	1,313	1,422	100%	7.67%	1.00

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1	PCTWORKATHOME	1.5999994278<=PCTWORKATHOME<=32.599975586	91	1,185	1,276	89.73%	7.13%	0.93
2		0<=PCTWORKATHOME<=1.5	18	128	146	10.27%	12.33%	1.61
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 4.9966932911 P-Value= 0.02540								
1	MEDIANOWNER COSTS NOMORT	320<=MEDIANOWNER COSTS NOMORT<=1171	78	1,057	1,135	79.82%	6.87%	0.90
2		145<=MEDIANOWNER COSTS NOMORT<=319	31	256	287	20.18%	10.80%	1.41
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 4.9891274218 P-Value= 0.02551								
1	PCTBUILT1960_1969	0.8999996185<=PCTBUILT1960_1969<=5.7999992371	4	135	139	9.77%	2.88%	0.38
2		5.8999977112<=PCTBUILT1960_1969<=31.399993896	105	1,178	1,283	90.23%	8.18%	1.07
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 4.9094332403 P-Value= 0.02671								
1	PCTOTHER1	0.1999999285<=PCTOTHER1<=57	88	1,156	1,244	87.48%	7.07%	0.92
2		0<=PCTOTHER1<=0.0999999642	21	157	178	12.52%	11.80%	1.54
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 4.7428314783 P-Value= 0.02942								
1	PCTVEHICLESGE3	22.899993896<=PCTVEHICLESGE3<=47.299987793	55	802	857	60.27%	6.42%	0.84
2		0<=PCTVEHICLESGE3<=22.799987793	54	511	565	39.73%	9.56%	1.25
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 4.7390138648 P-Value= 0.02949								
1	PCTFAMHHS	70.299987793<=PCTFAMHHS<=84.699951172	23	408	431	30.31%	5.34%	0.70
2		43.299987793<=PCTFAMHHS<=70.199951172	86	905	991	69.69%	8.68%	1.13
9			109	1,313	1,422	100%	7.67%	1.00

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1	PCTFAMILIES	70.299987793<=PCTFAMILIES<=84.699951172	23	408	431	30.31%	5.34%	0.70
2		43.299987793<=PCTFAMILIES<=70.199951172	86	905	991	69.69%	8.68%	1.13
9			109	1,313	1,422	100%	7.67%	1.00

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1	PCTNONFAMHHS	15.299995422<=PCTNONFAMHHS<=29.699996948	23	408	431	30.31%	5.34%	0.70
2		29.799987793<=PCTNONFAMHHS<=56.699981689	86	905	991	69.69%	8.68%	1.13
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 4.6762321978 P-Value= 0.03058								
1	PCTFAMHHINC35	0<=PCTFAMHHINC35<=18.199996948	92	1,192	1,284	90.30%	7.17%	0.93
2		18.299987793<=PCTFAMHHINC35<=46.099975586	17	121	138	9.70%	12.32%	1.61
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 4.602276354 P-Value= 0.03193								
1	PCTOTHLANGENGLISHLTD	32.599975586<=PCTOTHLANGENGLISHLTD<=100	55	800	855	60.13%	6.43%	0.84
2		0<=PCTOTHLANGENGLISHLTD<=32.5	54	513	567	39.87%	9.52%	1.24
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 4.5525651148 P-Value= 0.03287								
1	PCTHHFSOLAR	0.0999999642<=PCTHHFSOLAR<=1.3999996185	10	224	234	16.46%	4.27%	0.56
2		0<=PCTHHFSOLAR<=0	99	1,089	1,188	83.54%	8.33%	1.09
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 4.209873617 P-Value= 0.04019								
1	PCTHHSWITHKIDS	28.099990845<=PCTHHSWITHKIDS<=52.299987793	67	930	997	70.11%	6.72%	0.88
2		6.6999969482<=PCTHHSWITHKIDS<=28	42	383	425	29.89%	9.88%	1.29
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 4.1919930259 P-Value= 0.04062								
1	PCTDISABLED	5.2999992371<=PCTDISABLED<=17.099990845	44	664	708	49.79%	6.21%	0.81
2		17.199996948<=PCTDISABLED<=33.699981689	65	649	714	50.21%	9.10%	1.19
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 4.1223470735 P-Value= 0.04232								
1	PCTVETERAN	6.5999984741<=PCTVETERAN<=24.299987793	79	1,058	1,137	79.96%	6.95%	0.91
2		0<=PCTVETERAN<=6.5	30	255	285	20.04%	10.53%	1.37
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 4.0657299323 P-Value= 0.04376								
1	PCTHVAL100	18.099990845<=PCTHVAL100<=36.199981689	34	539	573	40.30%	5.93%	0.77
2		0<=PCTHVAL100<=18	75	774	849	59.70%	8.83%	1.15
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 4.0346106609 P-Value= 0.04458								
1	PCTMOVEDIN2000_2009	24.699996948<=PCTMOVEDIN2000_2009<=50.399993896	79	1,057	1,136	79.89%	6.95%	0.91
2		0<=PCTMOVEDIN2000_2009<=24.599990845	30	256	286	20.11%	10.49%	1.37
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 4.0057580693 P-Value= 0.04535								
1	PCTBORNOUTSIDEUSNATIVE	5.5999984741<=PCTBORNOUTSIDEUSNATIVE<=100	92	1,187	1,279	89.94%	7.19%	0.94
2		0<=PCTBORNOUTSIDEUSNATIVE<=5.3999977112	17	126	143	10.06%	11.89%	1.55
9			109	1,313	1,422	100%	7.67%	1.00

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Chi-Square= 3.9466937212 P-Value= 0.04696								
1	PCTFAMHHINC25	0<=PCTFAMHHINC25<=8.0999984741	14	273	287	20.18%	4.88%	0.64
2		8.1999969482<=PCTFAMHHINC25<=24.299987793	95	1,040	1,135	79.82%	8.37%	1.09
9			109	1,313	1,422	100%	7.67%	1.00