**Communities ready for takeoff: integrating social assets for biofuel site-selection modeling**

**Online Appendix**

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| **Table A1. Social Capital Dataset (Rupasingha et al., 2006)** |
|  |  | *Mean national* | *Mean NARA* | *Mean WMC* |
| *Variable* | *Label*  | *N = 3108* | *N = 175* | *N = 37* |
|  |  |  |  |  |
| pop97 | Population in county 1997 (Rupasingha et al.) | 85497 | 62342 | 35390 |
| pop05 | Population in county 2005 (Rupasingha et al.) | 94570 | 70042 | 39152 |
| pop09 | Population in county 2009 (Rupasingha et al.) | 98099 | 74252 | 41400 |
| Population | Population in county 2013 (County Health Ranks) | 98771 | 75914 | 42029 |
| assn97n10pop1 | Aggregate of all organizations and associations in 1997, (divided by population per 10,000) divided by 10 | 1.44 | 1.23 | 1.35 |
| pvote96 | Voter turnout in 1996 | .55 | .64 | .65 |
| respn00 | Census response rate in 2000 | .63 | .60 | .61 |
| nccs97perpop | Number of non-profit organizations without including those with an international approach in 1997 divided by the population per 10.000 | 52.15 | 71.13 | 79.16 |
| sk97 | Social capital index 1997 | NA | NA | NA |
| assn05 | Aggregate of all organizations and associations in 2005, (divided by population per 10,000) divided by 10 | 1.45 | 1.29 | 1.42 |
| pvote04 | Voter turnout in 2004 | .58 | .64 | .63 |
| respn05 | Census response rate in 2005 | .64 | .61 | .63 |
| nccs05perpop | Number of non-profit organizations without including those with an international approach in 2005 divided by the population per 10.000 | 60.20 | 84.89 | 95.39 |
| sk05 | Social capital index 2005 | NA | NA | NA |
| assn09 | Aggregate of all organizations and associations in 2009, (divided by population per 10,000) divided by 10 | 1.44 | 1.24 | 1.37 |
| pvote08 | Voter turnout in 2008 | .59 | .64 | .63 |
| respn10 | Census response rate in 2010 | .71 | .68 | .63 |
| nccs09perpop | Number of non-profit organizations without including those with an international approach in 2009 divided by the population per 10.000 | 65.69 | 92.13 | 105.99 |
| sk09 | Social capital index 2009 | NA | NA | NA |
|  |  |  |  |  |
| Note: Rupasingha et al. (2006) combine four dimensions of social capital into one measure. They run per year the assn, pvote, respn and nccesperpop variables in a factor analysis and take the factor loadings for each variable on the first factor combined as the index of social capital. The social capital index thus resembles factor scores and higher scores indicate how well the four dimensions in the respective county fit the underlying factor of social capital.  |

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| **Table A2. ASSN Indicators: Social Capital Dataset (Rupasingha et al., 2006)** |
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| *Assn indicators* |
| Religious organizations |
| Civic and social associations |
| Business associations |
| Political organizations |
| Professional organizations |
| Labor organizations |
| Bowling centers |
| Physical fitness facilities |
| Public golf courses |
| Sport clubs, managers, and promoters |
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| Note: All the scores for these variables are added in order to construct the variable ASSN |

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| **Table A3. Cultural Capital Dataset: WESTAF Creative Vitality Index** |
|  | *Mean national* | *Mean NARA* | *Mean WMC* |
| *Variable*  | *N = 3108* | *N = 175* | *N = 37* |
|  |  |  |  |
| CVI Value 2006 (index score, no raw data available) | .484 | .525 | .604 |
| CVI Value 2007 (index score, no raw data available) | .492 | .527 | .613 |
| CVI Value 2008 (index score, no raw data available) | .493 | .543 | .619 |
| CVI Value 2009 (index score, no raw data available) | .499 | .560 | .602 |
| CVI Value 2010 (index score, no raw data available) | .491 | .542 | .612 |
|  |  |  |  |
| Note: All scores are compared to a nationwide score of 1. Thus a score of 1.30 means that a county outperforms in comparison to the nation as a whole with 30% and a score of .700 means that a county underperforms in comparison to the nation as a whole with 30%. Thus we cannot take a national average since scores are comparisons to the nation as a whole set at 1.  |

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| **Table A4. Human Capital: Health Variables: Dataset County Health Rankings (CHR) 2013** |
|  |  |  | *Year collected* | *Mean national* | *Mean**NARA* | *Mean WMC* |
| *Variable*  | *Label* | *Data Origin* |  | *N = 3108* | *N = 175* | *N = 37* |
|  |  |  |  |  |  |  |
| Obese (Obesity) | Adult obesity (percent of adults that report a BMI >= 30) | National Center for Chronic Disease Prevention and Health Promotion, Division of Diabetes Translation | 2009 | 30.3 % | 27.3 % | 25.2 % |
| LBW (Low birth weight) | Low birth weight (percent of live births with weight < 2500 grams) | National Center for Health Statistics | 2004-2010 | 8.3 % | 6.7 % | 7.5 % |
| Deaths (Premature death) | Premature death (years of potential life lost before age 75 per 100,000 pop) | National Center for Health Statistics | 2008-2010 | 1075 years | 825 years | 505 years |
| YPPL-rate | Age-adjusted years of potential life lost (YPLL) rate per 100,000 | National Center for Health Statistics | 2008-2010 | 8052 years | 7180 years | 7554 years |
| FairPoor | Percent of adults that report fair or poor health (age-adjusted) | Behavioral Risk Factor Surveillance System | 2005-2011 | 16.6 % | 14.7 % | 14.1 % |
| PhysicallyUnhealthyDays | Average number of reported physically unhealthy days per month | Behavioral Risk Factor Surveillance System | 2005-2011 | 3.7 days | 3.6 days | 3.6 days |
| MentallyUnhealthyDays | Average number of reported mentally unhealthy days per month | Behavioral Risk Factor Surveillance System | 2005-2011 | 3.4 days | 3.1 days | 3.2 days |
|  |  |  |  |  |  |  |
| Note: Behavioral Risk Factor Surveillance System is the world's largest, on-going telephone health survey system, so these are self-reports. The American Community Survey (ACS) is a mandatory, ongoing statistical survey that samples a small percentage of the population every year, so this is also a self-report |

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| **Table A5. Human Capital: Poverty, Education and Language Variables: Dataset County Health Rankings (CHR) 2013** |
|  |  |  | *Year collected* | *Mean national* | *Mean**NARA* | *Mean WMC* |
| *Variable* | *Label* | *Data Origin* |  | *N = 3108* | *N = 175* | *N = 37* |
|  |  |  |  |  |  |  |
| Uninsured | Uninsured (percent of population < age 65 without health insurance) | Small Area Health Insurance Estimates | 2010 | 18.5 % | 22.1 % | 22.7 % |
| Medicareenrollees | Percent of Medicare enrollees | Dartmouth Atlas of Health Care | 2010 | .13 % | .12 % | .13 % |
| AFGR | High school graduation (percent of ninth grade cohort that graduates in 4 years) | State sources and the National Center for Education Statistics | 2007-2011 | 82.8 % | 79.4 % | 84.4 % |
| SomeCollege | Some college (Percent of adults aged 25-44 years with some post-secondary education) | American Community Survey, 5-year estimates | 2007-2011 | 54.1 % | 57.7 % | 57.2 % |
| Unemployed | Unemployment rate (percent of population age 16+ unemployed) | Bureau of Labor Statistics | 2011 | 8.6 % | 8.8 % | 8.7 % |
| ChildreninPoverty | Children in poverty (percent of children under age 18 in poverty) | Small Area Income and Poverty Estimates | 2011 | 24.8 % | 23.8 % | 23.9 % |
| Costs | Health care costs | HRSA Area Resource File | 2011-2012 | $ 9301 | $ 7648 | $ 7894 |
| CouldntAccess | Percent that could not see doctor due to cost | Behavioral Risk Factor Surveillance System | 2005-2011 | 13.8 % | 14.1 % | 14.0 % |
| NotproficientinEnglish | % not proficient in English | American Community Survey, 5-year estimates | 2007-2011 | 1.8 % | 2.2 % | .3 % |
|  |  |  |  |  |  |  |
| Note: Behavioral Risk Factor Surveillance System is the world's largest, on-going telephone health survey system, so these are self-reports. The American Community Survey (ACS) is a mandatory, ongoing statistical survey that samples a small percentage of the population every year, so this is also a self-report |

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| **Table A6. Reliability Analysis for SOCIAL CAPITAL Measurement for 1997, 2005 and 2009:** |
|  |  |  |  |  |  |
| Cronbach’s α | .658 | Cronbach’s α | .632 | Cronbach’s α | .488 |
| Factor solution | 1 | Factor solution | 1 | Factor solution | 2 |
| Eigenvalue | 1.62 | Eigenvalue | 1.41 | Eigenvalue | 1.41 |
| % explained variance | 40.41 | % explained variance | 35.23 | % explained variance | 35.12 |
|  | Factor loadings:  |  | Factor loadings:  |  | Factor loadings\*:  |
| assn97n10pop1 | .633 | assn05 | .683 | assn09 | .623 |
| pvote96 | .599 | pvote04 | .548 | pvote08 | .441 |
| respn00 | .209 | respn05 | .233 | respn10 | -.058 |
| nccs97perpop | .902 | nccs05perpop | .767 | nccs09perpop | .904 |
|  |  |  |  |  |  |
| Cronbach’s α | .746 | Cronbach’s α | .699 | Cronbach’s α | .670 |
| Factor solution | 1 | Factor solution | 1 | Factor solution | 1 |
| Eigenvalue | 1.60 | Eigenvalue | 1.40 | Eigenvalue | 1.33 |
| % explained variance | 53.44 | % explained variance | 46.57 | % explained variance | 44.24 |
|  | Factor loadings:  |  | Factor loadings:  |  | Factor loadings:  |
| assn97n10pop1 | .607 | assn05 | .644 | assn09 | .657 |
| pvote96 | .588 | pvote04 | .507 | pvote08 | .442 |
| nccs97perpop | .943 | nccs05perpop | .851 | nccs09perpop | .837 |
|  |  |  |  |  |  |
| Note: For 1997, 8 counties in Georgia are missing due to missing values for nccs (already so in the Rupasingha dataset) All scales and exploratory factor analyses were executed with standardized scores. Factor loadings for the first factor are shown. |
| \* For this analysis there was a 2 factor solution. Factor loadings from the Structure matrix for the first factor are reported. Promax rotation with kappa = 4. |
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| **Table A7. Reliability analysis for HEALTH measurement for 2013:** |
|  |  |  |  |  |  |
| Cronbach’s α | .865 | Cronbach’s α | .804 | Cronbach’s α | .861 |
| Factor solution | 3 | Factor solution | 2 | Factor solution | 1 |
| Eigenvalue | 5.596 | Eigenvalue | 3.32 | Eigenvalue | 3.17 |
| % explained variance | 43.04 | % explained variance | 47.39 | % explained variance | 52.77 |
|  | Factor loadings\*:  |  | Factor loadings\*:  |  | Factor loadings:  |
| Obese | .483 | Obese | .460 | Obese | .561 |
| Low birth weight  | .632 | Low birth W | .500 | Low birth W | .584 |
| Premature death | -.004 | Potential years life lost | .687 | Pot. years life lost | .772 |
| Potential years life lost | .797 | Poor/fair health | .879 | Poor/fair health | .916 |
| Poor/fair health | .790 | PPD / month | .913 | PPD / month | .801 |
| PPD / month | .617 | PMD / month | .732 | PMD / month | .658 |
| PMD / month | .519 | Medicare enrollees | -.028 |  |  |
| Uninsured | .632 |  |  |  |  |
| Unemployed | .600 |  |  |  |  |
| Children in poverty | .943 |  |  |  |  |
| Couldn’t access | .791 |  |  |  |  |
| Medicare enrollees | .011 |  |  |  |  |
| Costs | ..468 |  |  |  |  |
|  |  |  |  |  |  |
| Note: All scales and exploratory factor analyses were executed with standardized scores. Factor loadings for the first factor are shown. \* For this analyses there was a multi factor solution. Factor loadings from the Structure matrix for the first factor are reported. Promax rotation with kappa = 4. |

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| **Table A8. Reliability analysis for POVERTY measurement for 2013:** |
|  |  |  |  |  |  |
| Cronbach’s α | .688 | Cronbach’s α | .787 | Cronbach’s α | .811 |
| Factor solution | 2 | Factor solution | 1 | Factor solution | 1 |
| Eigenvalue | 2.45 | Eigenvalue | 2.703 | Eigenvalue | 2.142 |
| % explained variance | 40.80 | % explained variance | 46.13 | % explained variance | 53.54 |
|  | Factor loadings\*:  |  | Factor loadings:  |  | Factor loadings:  |
| Uninsured | .644 | Uninsured | .588 | Uninsured | .597 |
| Unemployed | .621 | Unemployed | .621 | Unemployed | .628 |
| Children in poverty | .882 | Children in poverty | .852 | Children in poverty | .868 |
| Couldn’t access | .827 | Couldn’t access | .827 | Couldn’t access | .799 |
| Medicare enrollees | .414 | Costs  | .405 |  |  |
| Costs | -.105 |  |  |  |  |
|  |  |  |  |  |  |
| Note: All scales and exploratory factor analyses were executed with standardized scores. Factor loadings for the first factor are shown. \* For this analysis there was a 2 factor solution. Factor loadings from the Structure matrix for the first factor are reported. Promax rotation with kappa = 4. |

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| **Table A9. SOCIAL CAPITAL – Scores for Regions - 1** |
|  | *Mean national*  | *Mean Northeast* | *Mean Midwest* | *Mean South* | *Mean West* | *Mean NARA*  | *Mean WMC*  |
| *Variable* | *N = 3108* | *N = 217* | *N =1055* | *N = 1423* | *N = 413* | *N = 175* | *N = 37* |
|  |  |  |  |  |  |  |  |
| Social capital 1997 | -.0008 | -.2117 | 1.1905 | -.9656 | .3730 | .9540 | 1.3972 |
| Minimum  | -5.18  | -3.38 | -3.06 | -5.18 | -3.20 | -1.87 | -.63 |
| Maximum  | 12.19 | 4.70 | 10.77 | 12.19 | 7.44 | 7.05 | 4.05 |
| Missing counties | 43 | 0 | 0 | 9 | 34 | 0 | 0 |
|  |  |  |  |  |  |  |  |
| Social capital 2005 | -.0026 | -.1737 | 1.0096 | -.7606 | .1099 | .6800 | .9852 |
| Minimum  | -4.17 | -3.27  | -2.50 | -4.17 | -3.25 | -2.35 | -.90 |
| Maximum  | 21.56 | 4.11 | 10.70 | 21.56 | 10.20 | 5.69 | 4.10 |
| Missing counties | 37 | 0 | 0 | 3 | 34 | 0 | 0 |
|  |  |  |  |  |  |  |  |
| Social capital 2009 | -.0043 | -.1965 | .9061 | -.6640 | .0413 | .5660 | .9318 |
| Minimum  | -4.29 | -2.93  | -2.32 | -4.29 | -3.06 | -2.51 | -1.17 |
| Maximum  | 23.08 | 4.10 | 8.72 | 23.08 | 7.88 | 5.14 | 3.59 |
| Missing counties | 40 | 0 | 1 | 4 | 35 | 0 | 0 |
|  |  |  |  |  |  |  |  |
| Note: missing values are mostly all counties in Alaska and Hawaii, plus seven counties in Georgia |

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| **Table A10. SOCIAL CAPITAL – Scores for Regions - 2** |
|  | *New England* | *Middle Atlantic* | *East North Central* | *West North Central* | *South Atlantic* | *East South Central* | *West South Central* | *Mountain* | *Pacific* |
| *Variable* | *N = 67* | *N = 150* | *N = 437* | *N = 618* | *N = 589* | *N = 364* | *N = 470* | *N = 280* | *N = 133* |
|  |  |  |  |  |  |  |  |  |  |
| Social capital 1997 | .4635 | -.5133 | .2012 | 1.8900 | -1.1344 | -1.3123 | -.4887 | .5847 | -.0712 |
| Minimum  | -1.25 | -3.38 | -2.00 | -3.06 | -5.18 | -3.01 | -4.33 | -3.14 | -3.20 |
| Maximum  | 4.70 | 4.09 | 3.42 | 10.77 | 12.19 | 2.14 | 6.30 | 7.44 | 4.86 |
| Missing counties | 0 | 0 | 0 | 0 | 8 | 1 | 0 | 2 | 32 |
|  |  |  |  |  |  |  |  |  |  |
| Social capital 2005 | .3703 | -.4167 | .1715 | 1.6023 | -.7982 | -.9624 | -5568 | .2848 | -.2569 |
| Minimum  | -1.17 | -3.27 | -2.08 | -2.50 | -4.17 | -2.62 | -3.94 | -3.25 | -3.19 |
| Maximum  | 4.11 | 3.47 | 2.78 | 10.70 | 21.56 | 1.77 | 7.43 | 10.20 | 3.87 |
| Missing counties | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 2 | 32 |
|  |  |  |  |  |  |  |  |  |  |
| Social capital 2009 | .2812 | -.4099 | .1104 | 1.4697 | -.5767 | -.8893 | -.5982 | .2295 | -.3522 |
| Minimum  | -1.16 | -2.93 | -1.83 | -2.32 | -4.29 | -2.68 | -3.77 | -3.06 | -2.97 |
| Maximum  | 4.10 | 3.76 | 2.41 | 8.72 | 23.08 | 1.66 | 5.72 | 7.88 | 3.52 |
| Missing counties | 0 | 0 | 0 | 1 | 3 | 0 | 1 | 3 | 32 |
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| Note: missing values are mostly all counties in Alaska and Hawaii, plus seven counties in Georgia |

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| **Table A11. CULTURAL CAPITAL – Scores per Region – 1**  |
|  | *Mean national*  | *Mean Northeast* | *Mean Midwest* | *Mean South* | *Mean West* | *Mean NARA*  | *Mean WMC*  |
| *Variable* | *N = 3108* | *N = 217* | *N =1055* | *N = 1423* | *N = 413* | *N = 175* | *N = 37* |
|  |  |  |  |  |  |  |  |
| CVI Value 2006 | .484 | .880 | .433 | .406 | .673 | .525 | .604 |
| CVI Value 2007 | .492 | .883 | .446 | .408 | .689 | .527 | .613 |
| CVI Value 2008 | .493 | .915 | .448 | .401 | .699 | .543 | .619 |
| CVI Value 2009 | .499 | .924 | .455 | .407 | .705 | .560 | .602 |
| CVI Value 2010 | .491 | .949 | .452 | .395 | .686 | .542 | .612 |
|  |  |  |  |  |  |
| Note: Data derived from WESTAF. All are compared to the score 1 which reflects the nation as a whole (which is not to be confused as a national average). A score of .7 indicates that a county underperforms the nation as a whole by 30% while a score of 1.3 indicates that a county outperforms the nation as a whole by 30%.  |

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| **Table A12. CULTURAL CAPITAL – Scores per Region – 2** |
|  | *New England* | *Middle Atlantic* | *East North Central* | *West North Central* | *South Atlantic* | *East South Central* | *West South Central* | *Mountain* | *Pacific* |
| *Variable* | *N = 67* | *N = 150* | *N = 437* | *N = 618* | *N = 589* | *N = 364* | *N = 470* | *N = 280* | *N = 133* |
|  |  |  |  |  |  |  |  |  |  |
| CVI Value 2006 | 1.15 | .759 | .433 | .432 | .536 | .307 | .318 | .700 | .680 |
| CVI Value 2007 | 1.17 | .756 | .421 | .464 | .533 | .305 | .333 | .692 | .683 |
| CVI Value 2008 | 1.20 | .789 | .428 | .463 | .511 | .311 | .333 | .697 | .705 |
| CVI Value 2009 | 1.20 | .800 | .426 | .469 | .515 | .319 | .341 | .704 | .707 |
| CVI Value 2010 | 1.17 | .849 | .431 | .466 | .500 | .317 | .323 | .684 | .691 |
|  |  |  |  |  |  |  |  |  |  |
| Note: Data derived from WESTAF. All are compared to the score 1 which reflects the nation as a whole (which is not to be confused as a national average). A score of .7 indicates that a county underperforms the nation as a whole by 30% while a score of 1.3 indicates that a county outperforms the nation as a whole by 30%.  |

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| **Table A13. HUMAN CAPITAL: Scores per Region – 1** |
|  | *Mean national*  | *Mean Northeast* | *Mean Midwest* | *Mean South* | *Mean West* | *Mean NARA*  | *Mean WMC*  |
| *Variable* | *N = 3108* | *N = 217* | *N =1055* | *N = 1424* | *N = 446* | *N = 175* | *N = 37* |
|  |  |  |  |  |  |  |  |
| Health 2013 | .0838 | -1.8402 | -1.5294 | 2.1391 | -1.4247 | -1.5405 | -1.5261 |
| Minimum  | -7.66 | -5.80 | -7.13 | -6.64 | -7.66 | -6.18 | -6.18 |
| Maximum  | 12.50 | 4.19 | 9.74 | 12.50 | 6.21 | 4.51 | 3.88 |
| Missing counties | 632 | 9 | 228 | 313 | 82 | 34 | 7 |
|  |  |  |  |  |  |  |  |
| Obesity 2013 | 30.3% | 27.5% | 30.7% | 31.9% | 25.8% | 27.3% | 25.2% |
|  |  |  |  |  |  |  |  |
| Poverty 2013 | -.1473 | -1.8830 | -1.6203 | 1.2742 | .3337 | .3319 | .4097 |
| Minimum  | -5.65 | -5.06 | -5.14 | -4.50 | -5.65 | -3.76 | -2.80 |
| Maximum  | 7.82 | 2.61 | 3.73 | 7.73 | 7.82 | 4.07 | 3.79 |
| Missing counties | 474 | 7 | 108 | 326 | 33 | 7 | 0 |
|  |  |  |  |  |  |  |  |
| Education 2013 | 54.2% | 58.6% | 59.2% | 48.5% | 58.0% | 57.7% | 57.2% |
|  |  |  |  |  |  |  |  |
| Language 2013 | 1.8\* | 1.9% | .9% | 2.1% | 3.2% | 2.2% | .3% |
|  |  |  |  |  |  |  |  |
| Note: Due to missing data in the health scale we put the obesity raw scores (percentage of the population with a BMI of 30 or higher) as comparison. Education is percentage of population having some secondary (college) education, language is percentage of population not proficient in English. |

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| **Table A14. HUMAN CAPITAL: Scores per Region – 2** |
|  | *New England* | *Middle Atlantic* | *East North Central* | *West North Central* | *South Atlantic* | *East South Central* | *West South Central* | *Mountain* | *Pacific* |
| *Variable* | *N = 67* | *N = 150* | *N = 437* | *N = 618* | *N = 590* | *N = 364* | *N = 470* | *N = 281* | *N = 165* |
|  |  |  |  |  |  |  |  |  |  |
| Health 2013 | -2.7687 | -1.3990 | -.8951 | -2.0405 | 1.0488 | 4.0978 | 1.8191 | -1.3431 | -1.5554 |
| Minimum  | -5.79 | -5.80 | -6.04 | -7.13 | -6.43 | -6.64 | -4.68 | -7.66 | -6.11 |
| Maximum  | 1.63 | 4.19 | 8.87 | 9.74 | 12.50 | 12.43 | 7.89 | 5.50 | 6.21 |
| Missing counties | 0 | 9 | 68 | 160 | 93 | 40 | 180 | 57 | 25 |
|  |  |  |  |  |  |  |  |  |  |
| Obesity 2013 | 25.6% | 28.4% | 30.7% | 30.7% | 30.9% | 34.3% | 31.3% | 24.9% | 27.2% |
|  |  |  |  |  |  |  |  |  |  |
| Poverty 2013 | -2.4277 | -1.6277 | -.9141 | -2.0752 | .9557 | 1.8699 | 1.1540 | .1507 | .6511 |
| Minimum  | -5.06 | -4.47 | -4.81 | -5.14 | -4.50 | -3.77 | -3.23 | -5.65 | -3.96 |
| Maximum  | .51 | 2.61 | 3.65 | 3.73 | 5.88 | 7.72 | 7.73 | 5.78 | 7.82 |
| Missing counties | 0 | 7 | 66 | 42 | 93 | 42 | 191 | 19 | 14 |
|  |  |  |  |  |  |  |  |  |  |
| Education 2013 | 62.5% | 56.9% | 56.3% | 61.3% | 50.4% | 47.0% | 47.4% | 57.8% | 58.5% |
|  |  |  |  |  |  |  |  |  |  |
| Language 2013 | 1.5% | 2.0% | .8% | 1.0% | 1.8% | .8% | 3.4% | 2.3% | 4.7% |
|  |
| Note: Due to missing data in the health scale we put the obesity raw scores (percentage of the population with a BMI of 30 or higher) as comparison.  |

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| **Table A15. Retrospective Analysis of Social Capital, Cultural Capital and Human Capital – Raw Scores** |
|  |  | *Wricops Community Policing* | *Endangered Species* | *Health* |
|  |  | **Whatcom** | **Kootenai** | **Yakima** | **Adams** | **Walla Walla** | **Okanogan** | **Lewis** **and Clark** | **Lake** |
|  |  | **Wash.** | **Idaho** | **Wash.** | **Wash.** | **Wash.** | **Wash.** | **Montana** | **Montana** |
|  |  | successful | successful | unsuccessful | unsuccessful | successful | unsuccessful | successful | unsuccessful |
| *Variable* | *Cut-off.*  | 2004 | 2000/2001 | 2006 | 2005 | 2005 | 2005 | 1999 | 1999 |
| Soc Cap 1997 | > .3730 | .250 | -.530 | -1.50 | .910 | .180 | .060 | 4.05 | .310 |
| Soc Cap 2005 | > .1099 | .030 | -.780 | -1.51 | -.170 | -.490 | .210 | 2.75 | -.110 |
| Soc Cap 2009 | > .0413 | -.090 | -.800 | -1.46 | -.570 | -.560 | -.040 | 2.50 | .110 |
|  |  |  |  |  |  |  |  |  |  |
| CVI 2006 | > .673 | .7680 | .570 | .358 | .238 | .561 | .382 | 1.032 | .579 |
| CVI 2007 | > .689 | .7800 | .622 | .369 | .210 | .540 | .367 | .978 | .508 |
| CVI 2008 | > .699 | .7510 | .629 | .380 | .237 | .679 | .408 | .925 | .492 |
| CVI 2009 | > .705 | .7580 | .558 | .396 | .168 | .590 | .423 | .939 | .487 |
| CVI 2010 | > .686 | .7380 | .614 | .380 | .166 | .690 | .451 | .925 | .450 |
|  |  |  |  |  |  |  |  |  |  |
| Health 2013 | < -1.4247 | -3.70 | -3.12 | 1.07 | .51 | -2.25 | .76 | -1.93 | -.20 |
| Obesity 2013 | < 25.8 | 24.3 | 25.6 | 32.4 | 37.0 | 28.6 | 27.4 | 23.5 | 27.6 |
| Poverty 2013 | < .3337 | -.93 | .40 | 2.29 | 1.64 | -.11 | 2.60 | -2.46 | 2.40 |
| Education 2013 | > 58 | 70.7 | 65.8 | 41.5 | 36.5 | 61.4 | 44.6 | 75.2 | 61.6 |
| Language 2013 | < 3.2 | 2.2 | .4 | 11.3 | 18.8 | 5.3 | 5.6 | .3 | .2 |
|  |  |  |  |  |  |  |  |  |  |
| Population 1997 |  | 154249 | 98767 | 218318 | 15541 | 53501 | 38652 | 53251 | 25341 |
| Population 2005 |  | 185556 | 126843 | 228819 | 16574 | 57304 | 39091 | 58150 | 27933 |
| Population 2009 |  | 200434 | 139390 | 239054 | 17732 | 59059 | 40552 | 61942 | 28605 |
| Population 2013 |  | 203663 | 141132 | 247141 | 19027 | 59588 | 414111 | 64318 | 28947 |
|  |  |  |  |  |  |  |  |  |  |
| Note: Shaded cells represent scores that are better than the cut-off points. Cut-off scores are based on averages for the respective years and variables for the region west (US census region) over 446 counties. For social capital and cvi scores data from Alaska and Hawaii is missing. See tables A6 through A11 for averages for other regions.  |

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| **Table A16. Case Analysis of Social Capital, Cultural Capital and Human Capital in Western Montana Corridor – Raw Scores** |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **Bonner** | **Kootenai** | **Boundary** | **Spokane** | **Lincoln** | **Lake** | **Flathead** | **Missoula** |
|  |  | **Idaho**  | **Idaho**  | **Idaho**  | **Washington** | **Montana**  | **Montana**  | **Montana**  | **Montana**  |
| *Variable* | *Cut-off.*  |  |  |  |  |  |  |  |  |
| Soc. Cap. 1997 | > .3730 | .130 | -.530 | -.140 | -.390 | .810 | .310 | 1.26 | 1.54 |
| Soc. Cap. 2005 | > .1099 | -.300 | -.780 | -.730 | -.400 | .730 | -.110 | .980 | 2.18 |
| Soc. Cap. 2009 | > .0413 | -.200 | -.800 | -.040 | -.590 | .770 | .110 | .700 | 1.88 |
|  |  |  |  |  |  |  |  |  |  |
| CVI 2006 | > .673 | .707 | .570 | .391 | .747 | .420 | .579 | .934 | 1.588 |
| CVI 2007 | > .689 | .994 | .622 | .300 | .758 | .444 | .508 | 1.036 | 1.583 |
| CVI 2008 | > .699 | .708 | .629 | .288 | .773 | .539 | .492 | 1.203 | 1.620 |
| CVI 2009 | > .705 | .676 | .558 | .277 | .756 | .528 | .487 | 1.130 | 1.661 |
| CVI 2010 | > .686 | .750 | .614 | .283 | .742 | .515 | .450 | 1.246 | 1.632 |
|  |  |  |  |  |  |  |  |  |  |
| Health 2013 | < -1.4247 | -1.90 | -3.12 | -2.94 | -1.45 | -.33 | -.20 | -3.12 | -3.80 |
| Obesity 2013 | < 25.8 | 22.7 | 25.6 | 23.7 | 28.0 | 25.6 | 27.6 | 21.8 | 20.5 |
| Poverty 2013 | < .3337 | 1.76 | .40 | 2.42 | -.67 | 3.59 | 2.40 | .53 | -.62 |
| Education 2013 | > 58 | 55.9 | 65.8 | 35.2 | 70.1 | 47.3 | 61.6 | 61.1 | 74.0 |
| Language 2013 | < 3.2 | .3 | .4 | .0 | 1.5 | .0 | .2 | .1 | .3 |
|  |  |  |  |  |  |  |  |  |  |
| Pop1997 |  | 34771 | 98767 | 9882 | 404650 | 18772 | 25341 | 71705 | 88818 |
| Pop 2005 |  | 39925 | 126843 | 10388 | 440488 | 18704 | 27933 | 82601 | 102239 |
| Pop 2009 |  | 41403 | 139390 | 10951 | 468684 | 18717 | 28605 | 89624 | 108623 |
| Pop 2013 |  | 40808 | 141132 | 10804 | 473761 | 19566 | 28947 | 91301 | 110138 |
|  |  |  |  |  |  |  |  |  |  |
| Note: Shaded cells represent scores that are better than the cut-off points. Cut-off scores are based on averages for the respective years and variables for the region west (US census region) over 446 counties. For social capital and cvi scores data from Alaska and Hawaii is missing. See tables A6 through A11 for averages for other regions.  |