

Appendix D - Data Quality Indicators by Year and Registry

| 2009 | | | | | | | | |
|----------------------|------------------------------|---|---------------------|--------------------|-----------------------|--------------------|------------------|----------------------|
| Registry | Met Combined Criteria | Completeness of Case Ascertainment | Missing Race | Missing Sex | Missing County | Missing Age | DCO Cases | Passing Edits |
| Alabama | Yes | 97.3 | 0.9 | 0.0 | 0.6 | 0.0 | 2.5 | 100.0 |
| Alaska | Yes | 99.5 | 0.4 | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 |
| Arizona | Yes | 98.7 | 1.7 | 0.0 | 0.0 | 0.0 | 3.0 | 100.0 |
| Arkansas | Yes | 90.1 | 1.7 | 0.0 | 0.2 | 0.0 | 1.2 | 100.0 |
| California | Yes | 101.4 | 1.8 | 0.0 | 0.0 | 0.0 | 0.6 | 100.0 |
| Greater Bay | Yes | 108.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.6 | 100.0 |
| Los Angeles | Yes | 99.4 | 2.1 | 0.0 | 0.0 | 0.0 | 0.4 | 100.0 |
| Colorado | Yes | 98.3 | 2.6 | 0.0 | 0.5 | 0.0 | 2.8 | 100.0 |
| Connecticut | Yes | 117.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.7 | 100.0 |
| Delaware | Yes | 108.2 | 0.1 | 0.0 | 0.0 | 0.0 | 1.7 | 100.0 |
| District of Columbia | Yes | 90.4 | 3.0 | 0.0 | 0.0 | 0.0 | 2.6 | 100.0 |
| Florida | Yes | 100.7 | 0.8 | 0.0 | 0.0 | 0.0 | 1.9 | 100.0 |
| Georgia | Yes | 105.6 | 0.2 | 0.0 | 0.0 | 0.0 | 1.4 | 100.0 |
| Atlanta | Yes | 108.5 | 0.4 | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| Hawaii | Yes | 115.0 | 1.3 | 0.0 | 0.0 | 0.0 | 1.3 | 100.0 |
| Idaho | Yes | 99.7 | 0.8 | 0.0 | 0.0 | 0.0 | 2.3 | 100.0 |
| Illinois | Yes | 104.2 | 1.0 | 0.0 | 0.0 | 0.0 | 1.6 | 100.0 |
| Indiana | Yes | 98.5 | 0.9 | 0.0 | 0.0 | 0.0 | 1.1 | 100.0 |
| Iowa | Yes | 106.1 | 0.8 | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| Kansas | Yes | 101.9 | 1.4 | 0.0 | 0.0 | 0.0 | 1.9 | 100.0 |
| Kentucky | Yes | 108.7 | 0.6 | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 |
| Louisiana | Yes | 98.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 100.0 |
| Maine | Yes | 106.3 | 1.1 | 0.0 | 0.0 | 0.0 | 1.7 | 100.0 |
| Maryland | Yes | 95.4 | 0.8 | 0.1 | 0.9 | 0.0 | 3.2 | 100.0 |
| Massachusetts | Yes | 107.5 | 1.6 | 0.0 | 0.0 | 0.0 | 2.1 | 100.0 |
| Michigan | Yes | 99.5 | 1.5 | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| Detroit | Yes | 108.3 | 0.3 | 0.0 | 0.0 | 0.0 | 1.3 | 100.0 |
| Minnesota | No | 105.0 | 1.5 | 0.0 | 0.0 | 0.0 | 1.8 | 98.5 |
| Mississippi | Yes | 99.1 | 0.1 | 0.0 | 0.0 | 0.0 | 2.0 | 100.0 |
| Missouri | Yes | 101.1 | 0.3 | 0.0 | 0.0 | 0.0 | 2.3 | 100.0 |
| Montana | Yes | 103.3 | 1.1 | 0.0 | 0.0 | 0.0 | 1.5 | 100.0 |
| Nebraska | Yes | 97.0 | 1.3 | 0.0 | 0.0 | 0.0 | 1.5 | 100.0 |
| Nevada | Yes | 95.0 | 1.7 | 0.0 | 0.1 | 0.0 | 1.4 | 100.0 |
| New Hampshire | Yes | 109.5 | 0.1 | 0.0 | 0.0 | 0.0 | 2.0 | 100.0 |
| New Jersey | Yes | 108.6 | 0.6 | 0.0 | 0.1 | 0.0 | 1.2 | 100.0 |
| New Mexico | Yes | 90.7 | 1.9 | 0.0 | 1.4 | 0.0 | 1.8 | 100.0 |
| New York | Yes | 111.4 | 0.6 | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 |
| North Carolina | Yes | 107.1 | 0.3 | 0.0 | 0.0 | 0.0 | 1.7 | 100.0 |
| North Dakota | Yes | 103.8 | 0.2 | 0.0 | 0.0 | 0.0 | 0.6 | 100.0 |
| Ohio | Yes | 98.3 | 1.2 | 0.0 | 0.0 | 0.0 | 4.5 | 100.0 |
| Oklahoma | Yes | 94.9 | 1.2 | 0.0 | 0.0 | 0.0 | 3.8 | 100.0 |
| Oregon | Yes | 97.9 | 1.8 | 0.0 | 0.0 | 0.0 | 1.5 | 100.0 |
| Pennsylvania | Yes | 104.6 | 1.5 | 0.0 | 0.0 | 0.0 | 2.1 | 100.0 |
| Rhode Island | Yes | 112.7 | 0.6 | 0.0 | 1.2 | 0.0 | 1.2 | 100.0 |
| South Carolina | Yes | 98.5 | 0.8 | 0.0 | 0.3 | 0.0 | 2.1 | 100.0 |
| South Dakota | Yes | 105.2 | 0.0 | 0.0 | 0.1 | 0.0 | 1.0 | 100.0 |
| Tennessee | Yes | 99.6 | 0.2 | 0.0 | 0.1 | 0.0 | 2.5 | 100.0 |
| Texas | Yes | 98.6 | 0.3 | 0.0 | 0.0 | 0.0 | 2.3 | 100.0 |
| Utah | Yes | 101.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.1 | 100.0 |
| Vermont | Yes | 104.9 | 0.4 | 0.0 | 0.0 | 0.0 | 1.6 | 100.0 |
| Virginia | Yes | 97.8 | 0.9 | 0.0 | 0.1 | 0.0 | 5.0 | 100.0 |
| Washington | Yes | 102.7 | 0.3 | 0.0 | 0.0 | 0.0 | 1.1 | 100.0 |
| Seattle | Yes | 107.9 | 0.8 | 0.0 | 0.0 | 0.0 | 0.7 | 100.0 |
| West Virginia | Yes | 102.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 |
| Wisconsin | Yes | 102.5 | 1.5 | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| Wyoming | Yes | 96.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 100.0 |
| Puerto Rico | Yes | 90.5 | 0.0 | 0.0 | 1.9 | 0.0 | 4.2 | 100.0 |

Appendix D - Data Quality Indicators by Year and Registry

2009

| Registry | Met Combined Criteria | Completeness of Case Ascertainment | Missing Race | Missing Sex | Missing County | Missing Age | DCO Cases | Passing Edits |
|------------------------------|--------------------------------------|---|-------------------------|------------------------|---------------------------|------------------------|----------------------|--------------------------|
| Alberta | Yes | 98.3 | na | 0.0 | 0.0 | 0.0 | 0.1 | 100.0 |
| British Columbia | Yes | 94.5 | na | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| Manitoba | Yes | 109.3 | na | 0.0 | 0.0 | 0.0 | 0.7 | 100.0 |
| New Brunswick | Yes | 105.5 | na | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| Newfoundland and Labrador | Yes | 97.1 | na | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| Northwest Territories | Yes | 169.9 | na | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| Nova Scotia | Yes | 98.9 | na | 0.0 | 0.0 | 0.0 | 0.6 | 100.0 |
| Nunavut | Yes | 106.4 | na | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| Ontario | Yes | 95.6 | na | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| Prince Edward Island | Yes | 97.8 | na | 0.0 | 0.0 | 0.0 | 0.2 | 100.0 |
| Quebec | - | - | - | - | - | - | - | - |
| Saskatchewan | Yes | 109.9 | na | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| Yukon | Yes | 114.1 | na | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |

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| 2010 | | | | | | | | |
|----------------------|------------------------------|---|---------------------|--------------------|-----------------------|--------------------|------------------|----------------------|
| Registry | Met Combined Criteria | Completeness of Case Ascertainment | Missing Race | Missing Sex | Missing County | Missing Age | DCO Cases | Passing Edits |
| Alabama | Yes | 97.1 | 0.8 | 0.0 | 0.6 | 0.0 | 0.9 | 100.0 |
| Alaska | Yes | 103.8 | 0.5 | 0.0 | 0.0 | 0.0 | 0.9 | 100.0 |
| Arizona | Yes | 92.6 | 1.1 | 0.0 | 0.0 | 0.0 | 1.9 | 100.0 |
| Arkansas | Yes | 90.7 | 1.7 | 0.0 | 0.3 | 0.0 | 3.6 | 100.0 |
| California | Yes | 98.7 | 2.1 | 0.0 | 0.0 | 0.0 | 0.6 | 100.0 |
| Greater Bay | Yes | 106.7 | 1.2 | 0.0 | 0.0 | 0.0 | 0.7 | 100.0 |
| Los Angeles | Yes | 95.7 | 2.2 | 0.0 | 0.0 | 0.0 | 0.4 | 100.0 |
| Colorado | Yes | 96.8 | 2.8 | 0.0 | 0.7 | 0.0 | 2.7 | 100.0 |
| Connecticut | Yes | 112.1 | 0.6 | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 |
| Delaware | Yes | 107.1 | 0.1 | 0.0 | 0.0 | 0.0 | 1.8 | 100.0 |
| District of Columbia | Yes | 91.8 | 2.2 | 0.0 | 0.0 | 0.0 | 2.0 | 100.0 |
| Florida | Yes | 99.5 | 0.7 | 0.0 | 0.0 | 0.0 | 1.8 | 100.0 |
| Georgia | Yes | 101.8 | 0.3 | 0.0 | 0.0 | 0.0 | 0.7 | 100.0 |
| Atlanta | Yes | 105.8 | 0.4 | 0.0 | 0.0 | 0.0 | 0.6 | 100.0 |
| Hawaii | Yes | 107.9 | 1.1 | 0.0 | 0.0 | 0.0 | 1.1 | 100.0 |
| Idaho | Yes | 102.4 | 1.8 | 0.0 | 0.0 | 0.0 | 1.9 | 100.0 |
| Illinois | Yes | 102.2 | 1.0 | 0.0 | 0.0 | 0.0 | 1.8 | 100.0 |
| Indiana | Yes | 98.8 | 1.3 | 0.0 | 0.0 | 0.0 | 1.4 | 100.0 |
| Iowa | Yes | 106.0 | 0.9 | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| Kansas | Yes | 100.7 | 1.7 | 0.0 | 0.0 | 0.0 | 2.0 | 100.0 |
| Kentucky | Yes | 107.7 | 0.7 | 0.0 | 0.0 | 0.0 | 1.1 | 100.0 |
| Louisiana | Yes | 98.6 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 100.0 |
| Maine | Yes | 105.7 | 0.4 | 0.0 | 0.0 | 0.0 | 1.5 | 100.0 |
| Maryland | Yes | 98.3 | 0.9 | 0.0 | 1.4 | 0.0 | 3.6 | 100.0 |
| Massachusetts | Yes | 101.9 | 1.8 | 0.0 | 0.0 | 0.0 | 1.8 | 100.0 |
| Michigan | Yes | 100.6 | 1.3 | 0.0 | 0.0 | 0.0 | 1.4 | 100.0 |
| Detroit | Yes | 105.3 | 0.3 | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| Minnesota | No | 104.7 | 1.8 | 0.0 | 0.0 | 0.0 | 1.8 | 96.8 |
| Mississippi | Yes | 97.7 | 0.1 | 0.0 | 0.0 | 0.0 | 1.8 | 100.0 |
| Missouri | Yes | 97.7 | 0.3 | 0.0 | 0.0 | 0.0 | 1.9 | 100.0 |
| Montana | Yes | 106.1 | 1.2 | 0.0 | 0.0 | 0.0 | 2.3 | 100.0 |
| Nebraska | Yes | 98.8 | 0.6 | 0.0 | 0.0 | 0.0 | 1.7 | 100.0 |
| Nevada | Yes | 91.0 | 2.5 | 0.0 | 0.1 | 0.0 | 4.3 | 100.0 |
| New Hampshire | Yes | 113.2 | 0.4 | 0.0 | 0.0 | 0.0 | 1.8 | 100.0 |
| New Jersey | Yes | 107.2 | 0.8 | 0.0 | 0.1 | 0.0 | 1.3 | 100.0 |
| New Mexico | Yes | 91.5 | 1.9 | 0.0 | 0.7 | 0.0 | 1.5 | 100.0 |
| New York | Yes | 109.7 | 0.6 | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 |
| North Carolina | Yes | 103.5 | 0.4 | 0.0 | 0.0 | 0.0 | 2.0 | 100.0 |
| North Dakota | Yes | 110.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 100.0 |
| Ohio | Yes | 93.9 | 1.5 | 0.0 | 0.0 | 0.0 | 4.7 | 100.0 |
| Oklahoma | Yes | 90.5 | 1.0 | 0.0 | 0.0 | 0.0 | 3.6 | 100.0 |
| Oregon | Yes | 94.8 | 1.5 | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| Pennsylvania | Yes | 102.8 | 2.1 | 0.0 | 0.0 | 0.0 | 2.0 | 100.0 |
| Rhode Island | Yes | 104.6 | 1.9 | 0.0 | 1.5 | 0.0 | 1.9 | 100.0 |
| South Carolina | Yes | 101.3 | 0.5 | 0.0 | 0.2 | 0.0 | 2.1 | 100.0 |
| South Dakota | Yes | 106.5 | 0.0 | 0.0 | 0.1 | 0.0 | 0.6 | 100.0 |
| Tennessee | Yes | 97.0 | 0.1 | 0.0 | 0.0 | 0.0 | 2.5 | 100.0 |
| Texas | Yes | 97.5 | 0.1 | 0.0 | 0.0 | 0.0 | 2.6 | 100.0 |
| Utah | Yes | 97.7 | 2.5 | 0.0 | 0.0 | 0.0 | 0.1 | 100.0 |
| Vermont | Yes | 102.7 | 1.2 | 0.0 | 0.0 | 0.0 | 2.7 | 100.0 |
| Virginia | Yes | 93.7 | 0.8 | 0.0 | 0.1 | 0.0 | 4.3 | 100.0 |
| Washington | Yes | 102.1 | 0.7 | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| Seattle | Yes | 106.5 | 0.8 | 0.0 | 0.0 | 0.0 | 0.5 | 100.0 |
| West Virginia | Yes | 98.6 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 | 100.0 |
| Wisconsin | Yes | 103.5 | 1.2 | 0.0 | 0.0 | 0.0 | 2.2 | 100.0 |
| Wyoming | Yes | 98.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 |
| Puerto Rico | No | 87.5 | 0.0 | 0.0 | 1.3 | 0.0 | 4.0 | 100.0 |

Appendix D - Data Quality Indicators by Year and Registry

2010

| Registry | Met Combined Criteria | Completeness of Case Ascertainment | Missing Race | Missing Sex | Missing County | Missing Age | DCO Cases | Passing Edits |
|------------------------------|--------------------------------------|---|-------------------------|------------------------|---------------------------|------------------------|----------------------|--------------------------|
| Alberta | Yes | 97.2 | na | 0.0 | 0.0 | 0.0 | 0.1 | 100.0 |
| British Columbia | Yes | 91.7 | na | 0.0 | 0.0 | 0.0 | 1.3 | 100.0 |
| Manitoba | Yes | 106.7 | na | 0.0 | 0.0 | 0.0 | 0.7 | 100.0 |
| New Brunswick | Yes | 100.3 | na | 0.0 | 0.0 | 0.0 | 0.2 | 100.0 |
| Newfoundland and Labrador | Yes | 94.3 | na | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| Northwest Territories | Yes | 118.9 | na | 0.0 | 0.7 | 0.0 | 0.0 | 100.0 |
| Nova Scotia | Yes | 99.3 | na | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 |
| Nunavut | No | 112.4 | na | 0.0 | 0.0 | 0.0 | - | 100.0 |
| Ontario | Yes | 102.5 | na | 0.0 | 0.0 | 0.0 | 1.4 | 100.0 |
| Prince Edward Island | Yes | 92.3 | na | 0.0 | 0.0 | 0.0 | 0.3 | 100.0 |
| Quebec | - | - | - | - | - | - | - | - |
| Saskatchewan | Yes | 105.3 | na | 0.0 | 0.0 | 0.0 | 0.6 | 100.0 |
| Yukon | Yes | 119.5 | na | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |

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| 2011 | | | | | | | | |
|----------------------|------------------------------|---|---------------------|--------------------|-----------------------|--------------------|------------------|----------------------|
| Registry | Met Combined Criteria | Completeness of Case Ascertainment | Missing Race | Missing Sex | Missing County | Missing Age | DCO Cases | Passing Edits |
| Alabama | Yes | 96.9 | 1.0 | 0.0 | 0.5 | 0.0 | 0.6 | 100.0 |
| Alaska | Yes | 104.0 | 0.4 | 0.0 | 0.0 | 0.0 | 1.5 | 100.0 |
| Arizona | Yes | 96.3 | 1.3 | 0.0 | 0.0 | 0.0 | 3.3 | 100.0 |
| Arkansas | Yes | 90.6 | 1.1 | 0.0 | 0.0 | 0.0 | 1.7 | 100.0 |
| California | Yes | 96.4 | 1.9 | 0.0 | 0.0 | 0.0 | 0.4 | 100.0 |
| Greater Bay | Yes | 103.9 | 1.3 | 0.0 | 0.0 | 0.0 | 0.5 | 100.0 |
| Los Angeles | Yes | 93.3 | 2.0 | 0.0 | 0.0 | 0.0 | 0.2 | 100.0 |
| Colorado | Yes | 98.2 | 2.4 | 0.0 | 0.2 | 0.0 | 2.3 | 100.0 |
| Connecticut | Yes | 110.8 | 1.1 | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| Delaware | Yes | 109.8 | 0.2 | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| District of Columbia | Yes | 105.4 | 0.9 | 0.0 | 0.0 | 0.0 | 1.5 | 100.0 |
| Florida | Yes | 100.5 | 0.7 | 0.0 | 0.0 | 0.0 | 1.8 | 100.0 |
| Georgia | Yes | 103.2 | 0.3 | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| Atlanta | Yes | 103.9 | 0.5 | 0.0 | 0.0 | 0.0 | 0.6 | 100.0 |
| Hawaii | Yes | 106.6 | 1.3 | 0.0 | 0.0 | 0.0 | 1.1 | 100.0 |
| Idaho | Yes | 102.0 | 1.4 | 0.0 | 0.0 | 0.0 | 2.3 | 100.0 |
| Illinois | Yes | 104.9 | 1.1 | 0.0 | 0.0 | 0.0 | 1.8 | 100.0 |
| Indiana | Yes | 97.7 | 1.0 | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| Iowa | Yes | 104.5 | 0.7 | 0.0 | 0.0 | 0.0 | 1.3 | 100.0 |
| Kansas | Yes | 98.4 | 2.2 | 0.0 | 0.0 | 0.0 | 1.9 | 100.0 |
| Kentucky | Yes | 105.5 | 0.7 | 0.0 | 0.0 | 0.0 | 0.7 | 100.0 |
| Louisiana | Yes | 97.5 | 0.2 | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| Maine | Yes | 101.0 | 0.5 | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| Maryland | Yes | 98.1 | 1.1 | 0.0 | 0.6 | 0.0 | 3.4 | 100.0 |
| Massachusetts | Yes | 104.2 | 2.0 | 0.0 | 0.0 | 0.0 | 2.0 | 100.0 |
| Michigan | Yes | 99.6 | 1.1 | 0.0 | 0.0 | 0.0 | 0.3 | 100.0 |
| Detroit | Yes | 106.4 | 0.2 | 0.0 | 0.0 | 0.0 | 1.5 | 100.0 |
| Minnesota | No | 105.5 | 1.9 | 0.0 | 0.1 | 0.0 | 2.4 | 98.0 |
| Mississippi | Yes | 99.1 | 0.1 | 0.0 | 0.0 | 0.0 | 1.4 | 100.0 |
| Missouri | Yes | 98.1 | 0.4 | 0.0 | 0.0 | 0.0 | 1.8 | 100.0 |
| Montana | Yes | 109.5 | 1.0 | 0.0 | 0.0 | 0.0 | 2.0 | 100.0 |
| Nebraska | Yes | 96.7 | 1.3 | 0.0 | 0.0 | 0.0 | 1.6 | 100.0 |
| Nevada | No | 89.6 | 7.8 | 0.0 | 0.9 | 0.0 | 6.3 | 100.0 |
| New Hampshire | Yes | 110.6 | 1.0 | 0.0 | 0.0 | 0.0 | 2.3 | 100.0 |
| New Jersey | Yes | 105.8 | 1.8 | 0.0 | 0.1 | 0.0 | 1.7 | 100.0 |
| New Mexico | Yes | 90.4 | 0.5 | 0.0 | 0.9 | 0.0 | 2.8 | 100.0 |
| New York | Yes | 111.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 |
| North Carolina | Yes | 102.0 | 0.5 | 0.0 | 0.0 | 0.0 | 2.2 | 100.0 |
| North Dakota | Yes | 112.5 | 0.2 | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| Ohio | Yes | 94.1 | 1.7 | 0.0 | 0.0 | 0.0 | 3.3 | 100.0 |
| Oklahoma | Yes | 91.3 | 2.5 | 0.0 | 0.0 | 0.0 | 3.7 | 100.0 |
| Oregon | Yes | 96.1 | 1.2 | 0.0 | 0.0 | 0.0 | 2.2 | 100.0 |
| Pennsylvania | Yes | 105.3 | 1.9 | 0.0 | 0.0 | 0.0 | 2.0 | 100.0 |
| Rhode Island | Yes | 106.3 | 1.1 | 0.0 | 1.1 | 0.0 | 1.9 | 100.0 |
| South Carolina | Yes | 97.9 | 0.6 | 0.0 | 0.0 | 0.0 | 2.2 | 100.0 |
| South Dakota | Yes | 107.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 100.0 |
| Tennessee | Yes | 95.6 | 0.1 | 0.0 | 0.0 | 0.0 | 2.6 | 100.0 |
| Texas | Yes | 95.7 | 0.1 | 0.0 | 0.0 | 0.0 | 2.2 | 100.0 |
| Utah | Yes | 98.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.5 | 100.0 |
| Vermont | Yes | 99.2 | 0.4 | 0.0 | 0.0 | 0.0 | 2.2 | 100.0 |
| Virginia | Yes | 92.9 | 1.3 | 0.0 | 0.4 | 0.0 | 3.0 | 100.0 |
| Washington | Yes | 101.2 | 1.5 | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| Seattle | Yes | 105.7 | 1.1 | 0.0 | 0.0 | 0.0 | 0.7 | 100.0 |
| West Virginia | Yes | 102.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 | 100.0 |
| Wisconsin | Yes | 101.3 | 1.0 | 0.0 | 0.0 | 0.0 | 2.4 | 100.0 |
| Wyoming | Yes | 95.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| Puerto Rico | Yes | 91.5 | 0.0 | 0.0 | 1.6 | 0.0 | 3.1 | 100.0 |

Appendix D - Data Quality Indicators by Year and Registry

2011

| Registry | Met Combined Criteria | Completeness of Case Ascertainment | Missing Race | Missing Sex | Missing County | Missing Age | DCO Cases | Passing Edits |
|------------------------------|--------------------------------------|---|-------------------------|------------------------|---------------------------|------------------------|----------------------|--------------------------|
| Alberta | Yes | 103.6 | na | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| British Columbia | Yes | 94.5 | na | 0.0 | 0.0 | 0.0 | 0.7 | 100.0 |
| Manitoba | Yes | 113.8 | na | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 |
| New Brunswick | Yes | 106.6 | na | 0.0 | 0.0 | 0.0 | 0.1 | 100.0 |
| Newfoundland and Labrador | Yes | 104.0 | na | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| Northwest Territories | Yes | 138.1 | na | 0.0 | 0.7 | 0.0 | 0.0 | 100.0 |
| Nova Scotia | Yes | 96.1 | na | 0.0 | 0.0 | 0.0 | 0.5 | 100.0 |
| Nunavut | No | 122.0 | na | 0.0 | 0.0 | 0.0 | - | 100.0 |
| Ontario | Yes | 104.4 | na | 0.0 | 0.0 | 0.0 | 1.4 | 100.0 |
| Prince Edward Island | Yes | 99.5 | na | 0.0 | 0.0 | 0.0 | 0.4 | 100.0 |
| Quebec | - | - | - | - | - | - | - | - |
| Saskatchewan | Yes | 100.1 | na | 0.0 | 0.0 | 0.0 | 0.9 | 100.0 |
| Yukon | Yes | 109.6 | na | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |

Appendix D - Data Quality Indicators by Year and Registry

| 2012 | | | | | | | | |
|----------------------|------------------------------|---|---------------------|--------------------|-----------------------|--------------------|------------------|----------------------|
| Registry | Met Combined Criteria | Completeness of Case Ascertainment | Missing Race | Missing Sex | Missing County | Missing Age | DCO Cases | Passing Edits |
| Alabama | Yes | 97.0 | 1.1 | 0.0 | 0.4 | 0.0 | 0.6 | 100.0 |
| Alaska | Yes | 96.0 | 0.6 | 0.0 | 0.0 | 0.0 | 1.7 | 100.0 |
| Arizona | Yes | 94.0 | 0.7 | 0.0 | 0.0 | 0.0 | 2.4 | 100.0 |
| Arkansas | Yes | 94.3 | 1.5 | 0.0 | 0.4 | 0.0 | 3.5 | 100.0 |
| California | Yes | 97.3 | 2.1 | 0.0 | 0.0 | 0.0 | 0.4 | 100.0 |
| Greater Bay | Yes | 104.8 | 1.5 | 0.0 | 0.0 | 0.0 | 0.5 | 100.0 |
| Los Angeles | Yes | 92.6 | 2.4 | 0.0 | 0.0 | 0.0 | 0.3 | 100.0 |
| Colorado | Yes | 98.7 | 2.5 | 0.0 | 0.2 | 0.0 | 2.7 | 100.0 |
| Connecticut | Yes | 116.4 | 0.8 | 0.0 | 0.0 | 0.0 | 1.1 | 100.0 |
| Delaware | Yes | 107.2 | 0.4 | 0.0 | 0.0 | 0.0 | 1.6 | 100.0 |
| District of Columbia | Yes | 108.8 | 2.1 | 0.0 | 0.0 | 0.0 | 1.4 | 100.0 |
| Florida | Yes | 99.4 | 0.6 | 0.0 | 0.0 | 0.0 | 1.9 | 100.0 |
| Georgia | Yes | 106.4 | 0.4 | 0.0 | 0.0 | 0.0 | 1.4 | 100.0 |
| Atlanta | Yes | 110.5 | 0.5 | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| Hawaii | Yes | 106.1 | 2.3 | 0.0 | 0.0 | 0.0 | 0.7 | 100.0 |
| Idaho | Yes | 99.7 | 2.2 | 0.0 | 0.0 | 0.0 | 2.4 | 100.0 |
| Illinois | Yes | 102.5 | 1.1 | 0.0 | 0.0 | 0.0 | 0.9 | 100.0 |
| Indiana | Yes | 96.6 | 1.2 | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| Iowa | Yes | 105.5 | 0.7 | 0.0 | 0.0 | 0.0 | 1.1 | 100.0 |
| Kansas | Yes | 99.3 | 1.8 | 0.0 | 0.0 | 0.0 | 1.7 | 100.0 |
| Kentucky | Yes | 108.6 | 1.2 | 0.0 | 0.0 | 0.0 | 0.7 | 100.0 |
| Louisiana | Yes | 100.1 | 0.2 | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| Maine | Yes | 107.7 | 0.3 | 0.0 | 0.0 | 0.0 | 2.1 | 100.0 |
| Maryland | Yes | 98.0 | 0.7 | 0.0 | 0.4 | 0.0 | 3.1 | 100.0 |
| Massachusetts | Yes | 105.6 | 1.8 | 0.0 | 0.0 | 0.0 | 2.2 | 100.0 |
| Michigan | Yes | 98.6 | 1.8 | 0.0 | 0.2 | 0.0 | 1.0 | 100.0 |
| Detroit | Yes | 107.4 | 1.4 | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| Minnesota | No | 106.6 | 1.8 | 0.0 | 0.1 | 0.0 | 1.7 | 97.5 |
| Mississippi | Yes | 98.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.6 | 100.0 |
| Missouri | Yes | 101.2 | 0.3 | 0.0 | 0.0 | 0.0 | 2.0 | 100.0 |
| Montana | Yes | 108.8 | 0.8 | 0.0 | 0.1 | 0.0 | 2.4 | 100.0 |
| Nebraska | Yes | 96.2 | 1.0 | 0.0 | 0.0 | 0.0 | 1.3 | 100.0 |
| Nevada | No | 82.8 | 9.1 | 0.0 | 0.8 | 0.0 | 5.5 | 100.0 |
| New Hampshire | Yes | 107.1 | 0.8 | 0.0 | 0.0 | 0.0 | 2.0 | 100.0 |
| New Jersey | Yes | 108.8 | 1.3 | 0.0 | 0.0 | 0.0 | 1.7 | 100.0 |
| New Mexico | Yes | 91.4 | 0.5 | 0.0 | 0.3 | 0.0 | 2.4 | 100.0 |
| New York | Yes | 108.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.9 | 100.0 |
| North Carolina | Yes | 101.0 | 0.6 | 0.0 | 0.0 | 0.0 | 1.8 | 100.0 |
| North Dakota | Yes | 120.9 | 0.5 | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 |
| Ohio | Yes | 94.2 | 1.6 | 0.0 | 0.0 | 0.0 | 2.9 | 100.0 |
| Oklahoma | Yes | 93.1 | 0.9 | 0.0 | 0.0 | 0.0 | 3.6 | 100.0 |
| Oregon | Yes | 96.2 | 0.9 | 0.0 | 0.0 | 0.0 | 1.9 | 100.0 |
| Pennsylvania | Yes | 103.7 | 1.5 | 0.0 | 0.0 | 0.0 | 1.9 | 100.0 |
| Rhode Island | Yes | 115.9 | 1.4 | 0.0 | 1.2 | 0.0 | 1.4 | 100.0 |
| South Carolina | Yes | 99.8 | 0.7 | 0.0 | 0.1 | 0.0 | 2.5 | 100.0 |
| South Dakota | Yes | 98.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 100.0 |
| Tennessee | Yes | 96.9 | 0.2 | 0.0 | 0.0 | 0.0 | 2.6 | 100.0 |
| Texas | Yes | 95.8 | 0.4 | 0.0 | 0.0 | 0.0 | 2.7 | 100.0 |
| Utah | Yes | 101.7 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 100.0 |
| Vermont | Yes | 107.2 | 0.5 | 0.0 | 0.0 | 0.0 | 1.8 | 100.0 |
| Virginia | Yes | 94.8 | 1.0 | 0.0 | 1.1 | 0.0 | 4.8 | 100.0 |
| Washington | Yes | 101.9 | 1.7 | 0.0 | 0.1 | 0.0 | 1.3 | 100.0 |
| Seattle | Yes | 106.6 | 1.0 | 0.0 | 0.0 | 0.0 | 0.5 | 100.0 |
| West Virginia | Yes | 100.5 | 0.1 | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 |
| Wisconsin | Yes | 101.2 | 1.0 | 0.0 | 0.0 | 0.0 | 2.0 | 100.0 |
| Wyoming | Yes | 94.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 100.0 |
| Puerto Rico | Yes | 92.1 | 0.0 | 0.0 | 1.4 | 0.0 | 3.3 | 100.0 |

Appendix D - Data Quality Indicators by Year and Registry

2012

| Registry | Met Combined Criteria | Completeness of Case Ascertainment | Missing Race | Missing Sex | Missing County | Missing Age | DCO Cases | Passing Edits |
|------------------------------|--------------------------------------|---|-------------------------|------------------------|---------------------------|------------------------|----------------------|--------------------------|
| Alberta | Yes | 105.3 | na | 0.0 | 0.0 | 0.0 | 0.1 | 100.0 |
| British Columbia | Yes | 99.5 | na | 0.0 | 0.0 | 0.0 | 0.9 | 100.0 |
| Manitoba | Yes | 107.8 | na | 0.0 | 0.0 | 0.0 | 0.6 | 100.0 |
| New Brunswick | Yes | 110.5 | na | 0.0 | 0.0 | 0.0 | 0.4 | 100.0 |
| Newfoundland and Labrador | Yes | 107.2 | na | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| Northwest Territories | Yes | 166.1 | na | 0.0 | 0.0 | 0.0 | 0.6 | 100.0 |
| Nova Scotia | Yes | 100.8 | na | 0.0 | 0.0 | 0.0 | 1.4 | 100.0 |
| Nunavut | No | 127.5 | na | 0.0 | 0.0 | 0.0 | - | 100.0 |
| Ontario | Yes | 104.4 | na | 0.0 | 0.0 | 0.0 | 1.7 | 100.0 |
| Prince Edward Island | Yes | 101.7 | na | 0.0 | 0.0 | 0.0 | 0.2 | 100.0 |
| Quebec | - | - | - | - | - | - | - | - |
| Saskatchewan | Yes | 101.9 | na | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| Yukon | Yes | 110.7 | na | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |

Appendix D - Data Quality Indicators by Year and Registry

2013

| Registry | Met Combined Criteria | Completeness of Case Ascertainment | Missing Race | Missing Sex | Missing County | Missing Age | DCO Cases | Passing Edits |
|----------------------|--------------------------------------|---|-------------------------|------------------------|---------------------------|------------------------|----------------------|--------------------------|
| Alabama | Yes | 96.6 | 1.0 | 0.0 | 0.3 | 0.0 | 1.6 | 100.0 |
| Alaska | Yes | 96.5 | 0.1 | 0.0 | 0.0 | 0.0 | 1.3 | 100.0 |
| Arizona | Yes | 90.8 | 1.0 | 0.0 | 0.0 | 0.0 | 3.4 | 100.0 |
| Arkansas | Yes | 98.0 | 0.6 | 0.0 | 0.1 | 0.0 | 3.4 | 100.0 |
| California | Yes | 96.0 | 2.2 | 0.0 | 0.0 | 0.0 | 0.7 | 100.0 |
| Greater Bay | Yes | 104.2 | 1.4 | 0.0 | 0.0 | 0.0 | 0.9 | 100.0 |
| Los Angeles | Yes | 92.0 | 2.8 | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 |
| Colorado | Yes | 95.4 | 1.8 | 0.0 | 0.6 | 0.0 | 2.5 | 100.0 |
| Connecticut | Yes | 117.8 | 1.1 | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 |
| Delaware | Yes | 109.6 | 0.1 | 0.0 | 0.0 | 0.0 | 1.5 | 100.0 |
| District of Columbia | Yes | 98.4 | 2.6 | 0.0 | 0.0 | 0.0 | 1.3 | 100.0 |
| Florida | Yes | 98.0 | 0.9 | 0.0 | 0.0 | 0.0 | 1.9 | 100.0 |
| Georgia | Yes | 103.2 | 0.6 | 0.0 | 0.0 | 0.0 | 1.6 | 100.0 |
| Atlanta | Yes | 108.8 | 0.7 | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| Hawaii | Yes | 111.4 | 2.7 | 0.0 | 0.0 | 0.0 | 1.4 | 100.0 |
| Idaho | Yes | 97.7 | 1.7 | 0.0 | 0.0 | 0.0 | 2.5 | 100.0 |
| Illinois | Yes | 101.0 | 0.7 | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| Indiana | Yes | 97.2 | 0.9 | 0.0 | 0.0 | 0.0 | 1.5 | 100.0 |
| Iowa | Yes | 104.1 | 0.7 | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| Kansas | Yes | 101.3 | 2.4 | 0.0 | 0.0 | 0.0 | 2.3 | 100.0 |
| Kentucky | Yes | 108.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.9 | 100.0 |
| Louisiana | Yes | 99.5 | 0.3 | 0.0 | 0.0 | 0.0 | 1.1 | 100.0 |
| Maine | Yes | 105.9 | 0.5 | 0.0 | 0.0 | 0.0 | 2.2 | 100.0 |
| Maryland | Yes | 99.0 | 0.4 | 0.0 | 1.0 | 0.0 | 2.7 | 100.0 |
| Massachusetts | Yes | 104.9 | 1.4 | 0.0 | 0.0 | 0.0 | 2.6 | 100.0 |
| Michigan | Yes | 97.2 | 1.6 | 0.0 | 0.0 | 0.0 | 1.4 | 100.0 |
| Detroit | Yes | 110.3 | 0.5 | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| Minnesota | No | 105.8 | 3.4 | 0.0 | 0.3 | 0.0 | 2.8 | 95.3 |
| Mississippi | Yes | 96.9 | 0.2 | 0.0 | 0.0 | 0.0 | 0.7 | 100.0 |
| Missouri | Yes | 99.7 | 0.2 | 0.0 | 0.0 | 0.0 | 2.4 | 100.0 |
| Montana | Yes | 106.0 | 0.7 | 0.0 | 0.0 | 0.0 | 2.2 | 100.0 |
| Nebraska | Yes | 100.6 | 1.0 | 0.0 | 0.0 | 0.0 | 1.1 | 100.0 |
| Nevada | No | 83.9 | 7.0 | 0.0 | 0.2 | 0.0 | 5.2 | 100.0 |
| New Hampshire | Yes | 106.0 | 1.4 | 0.0 | 0.0 | 0.0 | 1.3 | 100.0 |
| New Jersey | Yes | 108.2 | 2.8 | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| New Mexico | No | 85.1 | 0.7 | 0.1 | 0.1 | 0.0 | 4.3 | 100.0 |
| New York | Yes | 111.1 | 1.3 | 0.0 | 0.0 | 0.0 | 0.9 | 100.0 |
| North Carolina | Yes | 102.3 | 0.6 | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| North Dakota | Yes | 116.9 | 0.1 | 0.0 | 0.0 | 0.0 | 1.2 | 100.0 |
| Ohio | Yes | 98.0 | 1.7 | 0.0 | 0.0 | 0.0 | 2.8 | 100.0 |
| Oklahoma | Yes | 94.4 | 0.7 | 0.0 | 0.0 | 0.0 | 2.5 | 100.0 |
| Oregon | Yes | 99.6 | 0.4 | 0.0 | 0.0 | 0.0 | 1.6 | 100.0 |
| Pennsylvania | Yes | 107.2 | 1.6 | 0.0 | 0.0 | 0.0 | 1.8 | 100.0 |
| Rhode Island | Yes | 113.1 | 1.4 | 0.0 | 1.2 | 0.0 | 1.0 | 100.0 |
| South Carolina | Yes | 97.2 | 0.6 | 0.0 | 0.2 | 0.0 | 2.2 | 100.0 |
| South Dakota | Yes | 105.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 100.0 |
| Tennessee | Yes | 95.2 | 0.3 | 0.0 | 0.0 | 0.0 | 2.2 | 100.0 |
| Texas | Yes | 94.4 | 0.9 | 0.0 | 0.0 | 0.0 | 2.8 | 100.0 |
| Utah | Yes | 99.4 | 0.8 | 0.0 | 0.0 | 0.0 | 0.3 | 100.0 |
| Vermont | Yes | 100.3 | 1.4 | 0.0 | 0.0 | 0.0 | 1.1 | 100.0 |
| Virginia | Yes | 95.6 | 1.7 | 0.0 | 0.5 | 0.0 | 2.5 | 100.0 |
| Washington | Yes | 102.1 | 1.6 | 0.0 | 0.0 | 0.0 | 0.7 | 100.0 |
| Seattle | Yes | 108.3 | 1.2 | 0.0 | 0.0 | 0.0 | 0.3 | 100.0 |
| West Virginia | Yes | 99.4 | 0.3 | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| Wisconsin | Yes | 103.0 | 0.9 | 0.0 | 0.0 | 0.0 | 2.1 | 100.0 |
| Wyoming | Yes | 89.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 100.0 |
| Puerto Rico | Yes | 92.8 | 0.0 | 0.0 | 1.9 | 0.0 | 2.9 | 100.0 |

Appendix D - Data Quality Indicators by Year and Registry

2013

| Registry | Met Combined Criteria | Completeness of Case Ascertainment | Missing Race | Missing Sex | Missing County | Missing Age | DCO Cases | Passing Edits |
|------------------------------|--------------------------------------|---|-------------------------|------------------------|---------------------------|------------------------|----------------------|--------------------------|
| Alberta | Yes | 104.8 | na | 0.0 | 0.0 | 0.0 | 0.1 | 100.0 |
| British Columbia | Yes | 99.4 | na | 0.0 | 0.0 | 0.0 | 0.5 | 100.0 |
| Manitoba | Yes | 112.9 | na | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| New Brunswick | Yes | 115.7 | na | 0.0 | 0.0 | 0.0 | 0.1 | 100.0 |
| Newfoundland and Labrador | Yes | 106.1 | na | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 |
| Northwest Territories | Yes | 107.5 | na | 0.0 | 0.0 | 0.0 | 0.7 | 100.0 |
| Nova Scotia | Yes | 99.9 | na | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| Nunavut | No | 126.5 | na | 0.0 | 0.0 | 0.0 | - | 100.0 |
| Ontario | No | 98.1 | na | 0.0 | 0.0 | 0.0 | - | 100.0 |
| Prince Edward Island | No | 96.2 | na | 0.0 | 0.0 | 0.0 | - | 100.0 |
| Quebec | - | - | - | - | - | - | - | - |
| Saskatchewan | Yes | 105.3 | na | 0.0 | 0.0 | 0.0 | 0.4 | 100.0 |
| Yukon | Yes | 113.1 | na | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |