

APPENDIX A

A previously used indicator of the completeness of crime data has been "agency months". This term refers to the formula that counts the number of possible months in a year times the number of agencies, divided into the number of actual months some data is entered for all of the agencies. For example, In 1991 through 1993 Iowa had 225 reporting law enforcement agencies times 12 possible months of data submission equals 2,700 months that could be possible for 100% reporting. In 1991, crime data was entered in 1,872 months divided by the possible months would equal 69.3 percent complete reporting. In 1992, 2033 agency months had some crime data entered for a total of 75.3 percent complete reporting. There were 2,171 months entered for 1993 to account for 80.0 percent completeness. Eight agencies joined the direct reporting agencies in 1994. Therefore, the possible months of reporting rose to 2,796 in 1994. There were 2,323 months entered in 1994 to account for 83.1 percent completeness. One more agency joined the direct reporting agencies in 1995 to bring the total to 2,808 possible months. There were 2,391 months entered in 1995 to increase to 85.1 percent completeness. The same number (2,808) of months were possible in 1996 but completeness decreased to 2,306 months entered or 82.1 percent. In 1997, the number of months possible was again 2,808 and completeness increased to 84.0 percent with 2,360 months entered. In 1998 some data was entered in 2,455 which would raise completeness to 87.4 percent of the possible 2,808 months. (This method does not account for the completeness of the number of crimes entered per month.)

The second indicator of completeness of the data is a comparison of the crime index between the final years of summary reporting and reporting in the incident based system. Table 2 in this report converts the incident-based data back to the summary-based crime index. If we compare the 1991 through 1998 crime index figures with the final three years of reporting in the old system (1988 through 1990), we estimate that the 1991 data is approximately 52 percent complete and the 1992 data is approximately 58 percent complete. Using the same standards as above, the 1993 data is approximately 67 percent complete and the 1994 data is approximately 69 percent complete. The 1995 data increased for a period high to approximately 83 percent complete, the 1996 data is 80.5 percent complete, the 1997 data is 80.0% complete and the 1998 data fell to 76.0% complete. (This method does not account for an authentic decrease in crime.)

Another way that can be used to indicate completeness involves comparisons of completeness of populations for participating in a given year with the statewide total populations. Considering only agencies which reported in all 12 months in each year, 1991 data represents 54.6 percent of the states population, 1992 data represents 60.8 percent of the states population, and 1993 data represents 74.2 percent of the states population. The 1994 data represents 72.1 percent of the state population; the 1995 data represents 81.7 percent of the state population while the corresponding figure for 1996 is 70.9 percent. Increasing again in 1997, the data represents 79.9 percent of the Iowa's population but dropped to 77.8 percent of Iowa's population in 1998. (This method does not account for small agencies that would truly have no Part 1 crimes during a month.)