

CFSR Round 3 Statewide Data Indicators - Workbook

Issued May 2015

This workbook provides detailed, state-by-state performance on the CFSR 3 statewide data indicators, comparisons against the National Standards, and baseline and improvement goals for states whose initial results indicate the need for a Program Improvement Plan.

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Summary Data - CFSR 3 Statewide Data Indicators

Note: All analyses based on AFCARS and NCANDS submissions as of July 10, 2014.

National Standards	National Standards
Permanency in 12 months for children entering foster care	40.5%
Permanency in 12 months for children in care 12-23 months	43.6%
Permanency in 12 months for children in care 24 months or more	30.3%
Re-entry to foster care in 12 months	8.3%
Recurrence of maltreatment	9.1%
Placement stability	4.12 moves*
Maltreatment in foster care	8.50 victimizations**

* per 1,000 days in care ** per 100,000 days in care

Amount of Improvement Required in PIP	Floor	Cap	Floor for Threshold Factor	Cap for Threshold Factor
Permanency in 12 months for children entering foster care	1.031	1.063	0.969	0.937
Permanency in 12 months for children in care 12-23 months	1.046	1.082		
Permanency in 12 months for children in care 24 months or more	1.042	1.091		
Re-entry to foster care in 12 months	0.891	0.834	1.109	1.166
Recurrence of maltreatment	0.951	0.902		
Placement stability	0.959	0.904		
Maltreatment in foster care	0.904	0.812		

Data Periods Used *	For Setting National Standard	For Setting PIP Goals
Permanency in 12 months for children entering foster care	11B, 12A, 12B, 13A, 13B, 14A	09B, 10A, 10B, 11A, 11B, 12A, 12B, 13A, 13B, 14A
Permanency in 12 months for children in care 12-23 months	13B, 14A	11B, 12A, 12B, 13A, 13B, 14A
Permanency in 12 months for children in care 24 months or more	13B, 14A	11B, 12A, 12B, 13A, 13B, 14A
Re-entry to foster care in 12 months	11B, 12A, 12B, 13A, 13B, 14A	09B, 10A, 10B, 11A, 11B, 12A, 12B, 13A, 13B, 14A
Recurrence of maltreatment	FY2012, FY2013	FY2010, FY2011, FY2012, FY 2013
Placement stability	13B, 14A	11B, 12A, 12B, 13A, 13B, 14A
Maltreatment in foster care	FY2013 and 13A, 13B	FY2011, FY2012, FY2013, 11A, 11B, 12A, 12B, 13A, 13B

* FY periods (e.g., FY2012) refer to NCANDS data. All others refer to AFCARS data.

* NCANDS data are submitted for Federal Fiscal Years, Oct 1st through Sept 30th.

* 'A' refers to the 6 month report period Oct 1st through March 31st. Two-digit year refers to the calendar year in which the period ends.

* 'B' refers to the 6 month report period April 1st through Sept 30th. Two-digit year refers to the calendar year in which the period ends.

Data Quality *	States excluded from National Standards	States excluded from PIP Calculations (regardless of PIP status)
Permanency in 12 months for children entering foster care	4 (FL, NC, PR, WV)	8 (AL, FL, NC, ND, NH, PA, PR, WV)
Permanency in 12 months for children in care 12-23 months	3 (FL, NC, PR)	4 (FL, NC, PR, WV)
Permanency in 12 months for children in care 24 months or more	3 (FL, NC, PR)	4 (FL, NC, PR, WV)
Re-entry to foster care in 12 months	4 (FL, NC, PR, WV)	8 (AL, FL, NC, ND, NH, PA, PR, WV)
Recurrence of maltreatment	5 (MO, PA, PR, TN, VA)	11 (IN, KY, MD, MO, MT, ND, OR, PA, PR, TN, VA)
Placement stability	6 (AL, CO, FL, NC, UT, PR)	7 (AL, CO, FL, NC, PR, UT, WV)
Maltreatment in foster care	4 (MS, NC, PA, PR)	6 (MS, NC, OR, PA, PR, TN)

* States are excluded due to incomplete data or exceeding data quality limits

Glossary of terms used in tables

In the state-by-state performance on national standards (visible sheets)

Risk Adjustment	Risk-adjustment variables included in the model. Entry rate is the state's overall entry rate, calculated as the number of entries per 1,000 children in the general population. Median age reflects the median age for children who entered, exited, or were in care on the first day. For details on how age is used in the risk adjustment, see the Federal Register notice and technical bulletin.
Observed Performance	Percent or rate of children experiencing the outcome of interest, unadjusted.
Risk Standardized Performance	Level of performance after risk adjustment and modeling. See the Federal Register notice and technical bulletin for details.

In the state-by-state performance/calculations for Program Improvement Plan goals and thresholds (hidden sheets)

Baseline	Most recent year of observed performance.
Baseline Rounded	We will not require precision in calculating goals beyond the first decimal place for indicators involving percentages, or 2 decimal places for the indicators that are more rare events and calculated as rates. Therefore, we round the baseline for our calculation purposes.
Grand mean	Overall mean performance of the state on this indicator, after resampling with replacement. See technical bulletin for details.
Grand SD	Average standard deviation associated with the resampled means. This is used to determine the variability in state performance.
Grand mean + 2 * Grand SD	The equation used for this value: Grand mean + 2 times the standard deviation (Grand mean + 2 (Grand SD)).
Grand mean - 2 * Grand SD	The equation used for this value: Grand mean - 2 times the standard deviation (Grand mean - 2 (Grand SD)).
Improvement factor	For the permanency by 12 months indicators, this is calculated as (Grand mean + 2 (Grand SD) / Grand mean)). For all other indicators, this is calculated as (Grand mean - 2 (Grand SD) / Grand mean)).
Adjusted Improvement factor	After determining the cap (50% percentile) and the floor (20th or 80th percentile), we impose the cap and floor any time the state-derived improvement factor exceeds that range.
Adjusted Improvement Factor (Rounded)	We will not require precision in calculating goals beyond three decimal places, so we round them for calculation purposes.
Improvement goal	This represents the rounded baseline times the rounded, adjusted improvement factor.
Threshold factor	For indicators that require a threshold (only Entry Cohort Perm in 12 months and Re-entry), we calculate the inverse of the Improvement factor.
Adjusted threshold factor	This is the threshold factor with the caps and floors applied at the same percentiles as the improvement factors.
Adjusted threshold factor (Rounded)	Consistent with the notion that we will round the factors to 3 decimal places, we do the same for threshold factors.
Threshold	The point which a state's performance should not surpass, if the indicator is being monitored as a companion measure. This is the inverse of the improvement goal.

Data Quality Item	CFSR Statewide Data Indicators				
	Data Quality Limits for State Exclusion	Maltreatment in Foster Care	Recurrence of Maltreatment	Permanency in 12 Months (all 3 indicators) & Re-Entry to Foster Care in 12 Months	Placement Stability
AFCARS Cross-File Checks					
Dropped records*	>10%	✓		✓	✓
AFCARS IDs don't match from one period to next	>40%	✓		✓	✓
AFCARS Within-File Checks					
Missing date of birth**	>5%	✓		✓	✓
Missing date of latest removal	>5%	✓		✓	✓
Missing # of placement settings	>5%				✓
Date of birth after date of entry	>5%	✓		✓	✓
Date of birth after date of exit	>5%	✓		✓	✓
Age at entry greater than 21	>5%	✓		✓	✓
Age at discharge greater than 21	>5%	✓		✓	✓
In care more than 21 years	>5%	✓		✓	✓
Enters and exits care the same day	>5%	✓		✓	✓
Exit date is prior to removal date	>5%	✓		✓	✓
Missing discharge reason (exit date exists)	>5%			✓	
Percent of children on 1 st removal	>95%	✓		✓	✓
NCANDS Cross-File Checks					
Child IDs for victims match across years	<1%		✓		
Child IDs for victims match across years, but dates of birth and sex do not match	>5%		✓		
Some victims with AFCARS IDs should match IDs in AFCARS files	Y/N	✓			
NCANDS Within-File Checks					
Some victims should have AFCARS IDs in Child File	<1%	✓			
Missing age for victims	>5%	✓	✓		

*Note that these percentages are calculated differently than they were in prior CFSR rounds. Previously, the denominator was the total number of discharges reported for the 12 month period of interest. Now the denominator is the total number of records in the six month file.

** Date of birth is used to calculate age in months for risk-adjustment when calculating a state's risk-standardized performance.

AFCARS Data Quality Checks, by Data Period

1. Dropped records (Limit: >10%)

	2009B	2010A	2010B	2011A	2011B	2012A	2012B	2013A	2013B
AK	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
AL	11.1%	4.3%	1.1%	2.2%	0.6%	0.5%	1.2%	1.2%	3.5%
AR	1.2%	1.1%	0.0%	0.0%	0.0%	0.2%	0.3%	0.3%	0.4%
AZ	0.0%	0.0%	0.4%	0.5%	0.2%	0.5%	0.4%	0.3%	0.4%
CA	1.4%	0.0%	0.9%	0.5%	1.3%	0.0%	0.9%	1.6%	1.6%
CO	0.3%	0.2%	0.6%	0.5%	0.6%	0.7%	0.4%	0.4%	0.5%
CT	1.0%	0.4%	0.9%	2.4%	7.0%	5.8%	7.1%	6.1%	7.2%
DC	0.4%	0.2%	0.3%	0.2%	0.2%	0.2%	0.2%	0.0%	0.1%
DE	1.2%	1.6%	0.8%	0.1%	1.1%	1.9%	0.9%	0.4%	1.9%
FL	5.3%	0.5%	0.5%	0.1%	0.3%	0.2%	0.2%	0.2%	0.2%
GA	1.9%	0.0%	0.0%	0.2%	0.3%	0.1%	0.2%	0.2%	0.3%
HI	0.2%	0.1%	0.5%	0.2%	0.1%	0.3%	0.5%	0.4%	0.2%
IA	0.7%	0.6%	0.9%	0.8%	0.6%	1.2%	0.7%	0.8%	0.9%
ID	0.3%	1.1%	0.5%	0.3%	0.0%	0.2%	0.0%	0.0%	0.0%
IL	0.7%	0.3%	1.1%	2.1%	2.0%	0.1%	0.1%	0.2%	0.1%
IN	0.5%	0.5%	0.6%	1.5%	1.1%	1.9%	0.2%	0.1%	0.2%
KS	0.1%	0.3%	0.3%	0.3%	0.1%	0.2%	0.2%	0.3%	0.6%
KY	0.3%	0.4%	1.0%	0.7%	0.7%	2.3%	0.7%	1.2%	1.1%
LA	0.4%	0.9%	0.4%	0.6%	0.6%	0.6%	0.6%	0.7%	0.2%
MA	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
MD	3.1%	0.5%	0.4%	3.2%	0.9%	0.8%	2.0%	1.4%	1.2%
ME	0.2%	0.2%	0.3%	0.1%	0.2%	0.3%	0.2%	0.8%	1.4%
MI	0.2%	0.5%	0.4%	0.2%	0.1%	0.1%	0.0%	0.1%	0.2%
MN	0.5%	0.5%	0.3%	0.4%	0.2%	0.4%	2.4%	2.2%	2.1%
MO	0.8%	0.4%	0.3%	0.3%	0.2%	0.1%	0.4%	0.5%	0.3%
MS	0.0%	0.4%	0.2%	0.2%	0.1%	0.2%	0.1%	0.2%	0.8%
MT	0.9%	1.0%	0.8%	0.9%	0.5%	0.0%	0.1%	0.0%	0.0%
NC	3.0%	2.9%	1.8%	1.7%	1.3%	1.4%	1.1%	1.0%	1.7%
ND	3.5%	1.2%	4.7%	0.2%	0.5%	0.2%	0.1%	0.4%	0.2%
NE	0.1%	0.1%	0.1%	0.2%	0.2%	0.1%	0.1%	0.1%	0.2%
NH	4.7%	2.4%	5.8%	4.8%	7.2%	4.4%	4.8%	4.6%	5.1%
NJ	2.4%	0.8%	0.8%	0.4%	0.4%	0.6%	0.5%	0.5%	0.5%
NM	0.3%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
NV	0.0%	0.1%	0.1%	0.0%	0.1%	0.2%	0.3%	0.2%	0.0%
NY	0.1%	0.2%	0.1%	0.1%	0.1%	2.4%	0.3%	0.1%	0.1%
OH	2.1%	0.0%	0.0%	0.6%	0.0%	1.1%	0.4%	0.5%	0.4%
OK	0.3%	0.1%	0.2%	0.1%	0.3%	0.6%	0.2%	0.3%	0.3%
OR	0.5%	0.3%	0.4%	2.6%	0.6%	0.5%	0.5%	1.2%	0.9%
PA	56.8%	3.4%	58.7%	11.4%	2.4%	2.7%	2.5%	1.2%	0.5%
PR	3.9%	3.6%	86.9%	20.5%	25.3%	21.5%	34.0%	17.9%	21.7%
RI	0.2%	0.9%	0.2%	0.1%	0.0%	0.5%	0.0%	0.1%	0.1%
SC	0.0%	0.0%	0.0%	0.3%	0.4%	0.3%	0.2%	0.3%	0.4%
SD	0.3%	0.1%	0.0%	0.4%	0.2%	0.2%	0.1%	0.1%	0.2%
TN	0.2%	0.1%	0.2%	1.4%	0.8%	0.9%	0.5%	1.3%	0.5%
TX	0.0%	0.1%	0.1%	0.1%	0.1%	0.2%	0.1%	0.2%	0.2%
UT	0.1%	0.1%	0.1%	0.1%	1.3%	0.0%	0.1%	1.6%	0.4%
VA	0.1%	0.0%	0.0%	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%
VT	0.8%	1.5%	1.5%	1.2%	1.8%	1.1%	1.2%	1.1%	1.2%
WA	4.4%	0.2%	0.9%	0.4%	0.4%	0.3%	0.2%	0.3%	0.2%
WI	0.5%	0.0%	0.2%	0.1%	0.1%	0.2%	0.2%	0.2%	0.3%
WV	0.1%	0.2%	0.3%	1.1%	18.3%	5.2%	0.4%	0.2%	0.3%
WY	2.8%	1.0%	0.7%	1.2%	1.1%	1.0%	0.8%	0.8%	1.4%

Note that these percentages are calculated differently than they were in prior CFSR rounds. In the past, the denominator was the total number of discharges reported for the 12 month period of interest. Now the denominator is the total number of records in the six month file.

2. AFCARS IDs don't match from one period to next (Limit: >40%)

	2009B	2010A	2010B	2011A	2011B	2012A	2012B	2013A	2013B
AK	22.3%	17.9%	21.6%	18.7%	16.8%	20.9%	17.9%	19.8%	17.2%
AL	33.5%	22.5%	22.2%	20.5%	24.5%	26.3%	28.4%	24.6%	28.0%
AR	35.6%	31.6%	32.2%	30.1%	33.3%	31.2%	33.8%	33.3%	31.6%
AZ	27.3%	26.3%	25.4%	25.9%	23.2%	23.7%	21.6%	24.4%	24.5%
CA	26.3%	23.6%	24.8%	21.6%	23.9%	21.6%	22.2%	21.8%	22.0%
CO	27.2%	25.7%	28.7%	27.6%	28.9%	28.0%	27.7%	27.9%	26.2%
CT	24.6%	22.7%	23.0%	22.0%	23.8%	19.3%	22.9%	20.2%	23.1%
DC	14.6%	15.7%	15.7%	16.8%	17.9%	17.6%	18.4%	19.1%	17.8%
DE	26.0%	24.4%	24.5%	19.2%	22.5%	22.7%	25.1%	21.7%	27.8%
FL	33.7%	30.5%	27.0%	26.2%	25.5%	27.1%	27.7%	28.1%	29.2%
GA	33.3%	30.6%	30.3%	26.7%	27.0%	27.2%	27.1%	26.0%	27.8%
HI	30.7%	31.1%	32.5%	31.6%	32.7%	31.8%	32.3%	29.4%	30.7%
IA	26.4%	25.9%	25.3%	26.8%	24.1%	26.5%	24.8%	25.1%	25.1%
ID	31.7%	31.4%	31.2%	33.5%	29.3%	31.4%	28.7%	26.4%	29.2%
IL	14.4%	13.4%	12.2%	11.9%	14.0%	14.1%	14.3%	12.8%	12.6%
IN	25.3%	25.0%	26.7%	28.5%	28.4%	27.6%	22.8%	20.8%	19.9%
KS	24.0%	21.8%	20.8%	23.9%	21.9%	23.4%	21.7%	21.0%	21.8%
KY	28.1%	24.9%	27.2%	25.4%	27.3%	28.4%	26.0%	25.0%	25.7%
LA	26.9%	29.1%	29.3%	26.2%	28.6%	29.2%	28.6%	28.2%	30.3%
MA	24.2%	24.5%	23.0%	22.3%	22.8%	22.7%	21.5%	22.7%	21.9%
MD	20.9%	20.9%	23.6%	22.5%	23.7%	23.3%	24.8%	22.7%	23.4%
ME	22.1%	21.7%	21.8%	20.6%	23.8%	18.3%	18.3%	17.2%	16.5%
MI	23.3%	22.9%	22.6%	21.6%	21.0%	21.8%	20.7%	21.3%	20.2%
MN	34.1%	31.9%	33.3%	31.5%	33.7%	31.9%	32.1%	30.2%	31.2%
MO	26.5%	23.8%	23.7%	23.4%	22.7%	22.8%	21.9%	22.2%	20.4%
MS	22.9%	23.8%	23.4%	25.0%	22.8%	22.1%	24.6%	19.6%	24.0%
MT	19.9%	23.4%	19.8%	19.8%	21.4%	22.9%	20.3%	19.3%	20.7%
NC	23.1%	23.5%	23.1%	22.4%	23.9%	23.1%	22.9%	21.4%	21.0%
ND	29.2%	21.5%	34.8%	23.6%	25.1%	21.3%	25.7%	21.3%	26.2%
NE	23.7%	23.2%	22.1%	23.7%	23.6%	19.2%	23.2%	25.5%	24.5%
NH	30.2%	25.6%	31.0%	26.2%	32.1%	25.2%	25.0%	22.4%	23.5%
NJ	28.2%	25.4%	26.3%	24.9%	28.8%	25.5%	25.1%	26.0%	26.6%
NM	34.7%	31.2%	32.3%	29.5%	31.6%	29.7%	28.9%	27.6%	28.1%
NV	24.5%	22.0%	23.2%	22.8%	24.2%	25.4%	23.2%	24.1%	25.9%
NY	19.4%	18.7%	20.1%	19.8%	19.3%	19.6%	17.6%	18.0%	18.4%
OH	31.0%	26.0%	27.6%	25.7%	28.7%	27.2%	27.8%	26.1%	27.3%
OK	27.8%	22.8%	25.8%	18.8%	22.4%	21.0%	19.6%	17.8%	18.3%
OR	20.8%	19.3%	19.0%	21.3%	18.7%	17.7%	18.7%	20.0%	20.6%
PA	85.9%	26.9%	87.2%	37.7%	26.5%	25.4%	25.6%	22.5%	22.5%
PR	14.0%	14.6%	100.0%	27.8%	31.5%	31.0%	39.5%	23.7%	30.0%
RI	28.5%	22.9%	24.3%	26.3%	26.2%	26.0%	25.6%	21.5%	25.0%
SC	27.0%	27.4%	28.9%	28.9%	31.0%	34.0%	33.2%	29.7%	30.5%
SD	30.9%	28.6%	31.1%	30.9%	33.3%	28.4%	27.7%	25.0%	28.4%
TN	31.6%	31.0%	30.7%	27.0%	27.0%	26.3%	27.9%	26.9%	28.9%
TX	20.6%	20.4%	18.5%	20.4%	21.1%	22.2%	22.1%	22.9%	21.5%
UT	26.9%	23.8%	26.7%	26.9%	29.0%	25.9%	26.9%	29.5%	27.8%
VA	23.3%	23.5%	22.1%	22.4%	23.8%	24.4%	24.6%	24.4%	25.1%
VT	23.7%	23.7%	26.9%	21.3%	22.8%	22.5%	23.1%	25.1%	23.6%
WA	23.2%	24.7%	23.2%	24.4%	24.3%	22.9%	19.0%	20.7%	19.2%
WI	27.8%	22.2%	25.3%	22.4%	24.8%	22.7%	25.5%	22.7%	25.1%
WV	26.6%	24.3%	27.5%	24.3%	45.2%	26.3%	25.1%	26.3%	28.7%
WY	36.0%	31.7%	33.8%	32.3%	35.0%	29.2%	26.2%	30.8%	29.6%

5. Missing # of placement settings (Limit: >5%)

	2009B	2010A	2010B	2011A	2011B	2012A	2012B	2013A	2013B	2014A
AK	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
AL	8.5%	1.6%	1.8%	4.4%	3.6%	4.5%	4.5%	4.8%	5.4%	5.3%
AR	0.4%	1.2%	1.0%	1.1%	0.7%	0.9%	0.6%	0.5%	0.8%	0.7%
AZ	0.3%	0.2%	0.6%	1.0%	0.8%	1.4%	1.1%	1.1%	1.0%	4.2%
CA	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%	0.2%
CO	2.9%	3.3%	2.8%	3.0%	2.4%	2.1%	2.2%	5.9%	6.1%	5.6%
CT	1.1%	0.9%	0.8%	0.7%	3.2%	4.3%	3.8%	4.5%	4.0%	2.9%
DC	0.5%	0.4%	0.4%	0.3%	0.3%	0.4%	0.1%	0.2%	0.2%	0.1%
DE	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
FL	0.3%	0.2%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.0%
GA	0.9%	0.4%	0.7%	0.7%	0.6%	0.4%	0.7%	0.6%	0.5%	0.5%
HI	0.6%	0.7%	0.7%	0.6%	0.1%	0.1%	0.9%	0.4%	0.7%	1.7%
IA	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ID	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%
IL	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
IN	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.0%
KS	0.2%	0.1%	0.1%	0.2%	0.2%	0.1%	0.2%	0.2%	0.0%	0.1%
KY	0.0%	0.0%	0.4%	0.3%	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%
LA	0.6%	0.7%	0.4%	1.0%	1.0%	0.3%	0.2%	0.0%	0.1%	0.0%
MA	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%
MD	2.8%	3.2%	2.8%	2.6%	3.1%	2.3%	1.8%	1.0%	0.8%	0.7%
ME	0.3%	0.1%	0.2%	0.1%	0.5%	0.4%	0.4%	0.2%	0.3%	0.1%
MI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
MN	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.3%	0.4%
MO	0.4%	0.4%	0.3%	0.3%	0.3%	0.5%	0.5%	0.4%	0.4%	0.5%
MS	0.1%	1.6%	0.7%	1.4%	1.1%	0.4%	0.1%	0.8%	3.2%	2.3%
MT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
NC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ND	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
NE	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.4%	0.3%	0.3%	0.2%
NH	0.5%	0.6%	0.2%	0.2%	0.3%	0.2%	0.5%	0.3%	0.3%	0.6%
NJ	1.4%	0.8%	1.0%	0.9%	1.1%	0.7%	0.7%	0.7%	0.6%	0.5%
NM	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%	0.1%
NV	0.1%	0.6%	0.5%	0.3%	0.4%	0.5%	0.3%	0.4%	0.4%	0.3%
NY	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
OH	0.1%	0.2%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.1%
OK	0.2%	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%	0.3%	0.3%	0.3%
OR	0.0%	0.0%	0.0%	0.0%	0.4%	0.3%	0.2%	0.1%	0.1%	0.1%
PA	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PR	0.8%	1.4%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
RI	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SC	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
SD	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
TN	0.3%	0.1%	0.1%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
TX	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
UT	0.9%	1.2%	1.4%	1.0%	1.1%	2.1%	0.4%	1.3%	4.9%	6.8%
VA	0.7%	0.7%	0.7%	0.6%	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%
VT	0.3%	0.5%	0.7%	0.6%	0.6%	0.1%	0.4%	0.1%	0.1%	0.0%
WA	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%
WI	0.4%	0.2%	0.2%	0.3%	0.2%	0.2%	0.2%	0.1%	0.1%	0.0%
WV	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
WY	1.0%	1.3%	0.9%	0.8%	0.8%	0.6%	0.7%	0.5%	1.0%	0.0%

14. Percent of children on 1st removal (Limit: >95%)

	2009B	2010A	2010B	2011A	2011B	2012A	2012B	2013A	2013B	2014A
AK	84.4%	84.9%	85.5%	85.0%	86.0%	85.8%	85.8%	85.9%	86.2%	86.1%
AL	77.4%	80.9%	81.8%	82.6%	82.3%	82.3%	81.4%	81.3%	81.6%	82.0%
AR	78.0%	79.3%	80.0%	80.0%	79.5%	78.7%	79.1%	78.8%	79.7%	80.4%
AZ	77.5%	77.8%	77.0%	76.6%	76.9%	78.0%	79.1%	79.1%	79.6%	79.7%
CA	73.7%	73.5%	73.8%	74.2%	74.4%	74.6%	74.7%	74.9%	75.6%	76.1%
CO	59.4%	60.5%	63.0%	62.8%	63.6%	64.0%	64.1%	64.4%	64.9%	65.3%
CT	77.8%	77.3%	77.3%	77.4%	77.6%	78.0%	78.1%	78.2%	77.8%	77.9%
DC	71.3%	72.6%	74.1%	74.0%	73.8%	72.5%	72.4%	70.9%	72.5%	73.5%
DE	79.8%	80.7%	82.0%	83.9%	84.9%	85.2%	85.2%	85.5%	85.9%	86.2%
FL	74.6%	75.2%	75.1%	75.6%	76.4%	76.9%	76.8%	76.6%	76.6%	97.2%
GA	83.6%	80.9%	79.4%	80.2%	82.4%	82.8%	82.9%	82.4%	82.4%	82.4%
HI	69.0%	69.9%	70.7%	72.8%	72.0%	72.8%	72.4%	73.1%	74.1%	74.6%
IA	76.5%	76.8%	76.4%	75.9%	76.5%	76.8%	76.9%	78.0%	78.1%	78.1%
ID	76.7%	78.1%	78.1%	78.0%	76.7%	77.6%	77.0%	77.8%	79.9%	80.2%
IL	84.6%	84.8%	85.5%	85.7%	85.7%	85.9%	85.8%	85.6%	86.0%	86.0%
IN	80.1%	79.8%	80.2%	80.1%	80.3%	79.8%	87.0%	80.9%	81.7%	82.0%
KS	84.2%	83.9%	84.0%	84.0%	84.2%	84.4%	83.8%	84.0%	83.7%	83.5%
KY	78.2%	77.9%	78.1%	77.4%	77.5%	77.3%	74.6%	75.2%	74.8%	74.6%
LA	81.8%	81.4%	82.7%	82.1%	81.7%	81.2%	81.0%	81.6%	81.2%	81.3%
MA	74.1%	73.9%	73.5%	73.6%	73.7%	73.8%	73.8%	73.8%	74.1%	75.1%
MD	76.7%	76.7%	76.3%	75.6%	75.2%	75.4%	75.9%	75.1%	74.2%	74.4%
ME	86.3%	85.4%	85.9%	85.1%	84.8%	84.6%	84.6%	85.3%	86.3%	86.8%
MI	88.0%	92.5%	92.1%	92.1%	91.6%	93.6%	92.8%	92.5%	92.3%	92.1%
MN	59.1%	59.4%	60.2%	61.0%	63.0%	62.5%	63.1%	63.6%	65.2%	66.4%
MO	79.2%	79.5%	80.0%	80.5%	80.1%	80.3%	81.2%	81.2%	82.3%	82.8%
MS	86.5%	87.1%	86.8%	86.9%	86.4%	85.9%	86.1%	84.9%	85.0%	84.7%
MT	70.9%	70.3%	70.5%	70.4%	72.4%	72.1%	74.8%	77.5%	77.8%	79.0%
NC	97.0%	97.1%	96.8%	96.9%	96.8%	96.2%	96.5%	96.7%	96.6%	96.8%
ND	74.0%	73.8%	72.2%	72.1%	72.2%	74.4%	75.8%	76.5%	77.9%	78.5%
NE	75.8%	75.4%	75.3%	74.7%	74.8%	74.7%	78.7%	77.7%	77.0%	77.2%
NH	71.1%	76.5%	70.6%	71.6%	72.1%	71.7%	72.5%	74.2%	73.8%	80.9%
NJ	76.9%	77.8%	78.4%	78.5%	78.2%	79.2%	79.2%	78.7%	78.4%	77.7%
NM	78.7%	78.3%	79.2%	78.6%	77.8%	77.4%	76.6%	78.0%	78.4%	78.6%
NV	80.3%	80.6%	79.4%	78.4%	78.0%	79.1%	79.2%	79.9%	80.4%	80.6%
NY	75.0%	75.2%	75.3%	75.0%	75.1%	75.1%	75.1%	76.3%	76.4%	76.7%
OH	70.7%	70.4%	70.4%	71.0%	70.4%	70.9%	74.0%	74.2%	74.5%	74.7%
OK	81.6%	81.1%	81.3%	80.9%	81.5%	81.9%	83.3%	83.9%	84.3%	84.8%
OR	77.6%	77.5%	77.4%	77.1%	75.7%	75.8%	76.1%	76.0%	75.9%	76.0%
PA	69.6%	69.1%	68.7%	64.8%	70.2%	72.7%	72.9%	73.6%	74.0%	73.4%
PR	93.5%	92.8%	92.6%	90.8%	90.5%	92.6%	90.8%	92.8%	92.5%	95.2%
RI	69.2%	69.5%	70.4%	70.5%	69.8%	70.2%	69.4%	69.9%	70.6%	70.8%
SC	81.7%	82.0%	81.4%	80.8%	80.1%	80.3%	79.0%	78.9%	79.4%	80.3%
SD	68.5%	66.7%	66.9%	68.1%	67.6%	67.7%	67.3%	67.3%	68.2%	67.5%
TN	79.0%	79.3%	79.8%	80.6%	81.1%	81.7%	81.7%	81.2%	81.4%	80.9%
TX	88.8%	88.9%	89.0%	84.6%	84.4%	83.9%	88.5%	88.2%	87.6%	87.5%
UT	80.1%	81.6%	82.2%	82.0%	80.8%	81.7%	81.8%	82.0%	80.7%	80.6%
VA	88.0%	87.1%	87.1%	87.0%	87.3%	87.6%	88.1%	88.3%	88.2%	88.1%
VT	77.2%	76.4%	76.3%	76.2%	77.5%	76.9%	76.5%	75.2%	76.7%	77.1%
WA	74.9%	76.5%	77.6%	78.3%	79.1%	79.7%	80.4%	80.6%	80.9%	81.6%
WI	73.9%	74.2%	74.0%	73.8%	74.3%	74.6%	74.1%	74.6%	75.6%	76.3%
WV	80.7%	80.1%	80.4%	81.5%	81.2%	81.4%	81.2%	81.1%	81.6%	81.1%
WY	69.7%	69.2%	69.8%	68.9%	69.2%	70.7%	67.5%	69.2%	69.5%	72.2%

NCANDS Data Quality, by Data Period

Note: A dash "-" is shown when data were not available for the calculation.

1. Child IDs for victims match across years (Limit: <1%)

	FY2010-11	FY2011-12	FY2012-13
AK	5.2%	5.3%	6.1%
AL	2.1%	1.9%	2.2%
AR	3.3%	3.1%	3.2%
AZ	7.0%	5.3%	6.0%
CA	3.4%	3.5%	3.5%
CO	2.9%	3.1%	2.9%
CT	4.1%	3.9%	4.0%
DC	4.8%	4.1%	5.2%
DE	2.9%	3.1%	3.2%
FL	4.3%	4.4%	4.2%
GA	2.0%	2.4%	2.9%
HI	2.3%	2.4%	1.6%
IA	5.7%	5.0%	4.7%
ID	2.1%	1.5%	1.9%
IL	3.8%	4.0%	3.8%
IN	3.7%	0.0%	3.7%
KS	1.2%	1.4%	1.7%
KY	3.9%	0.0%	4.1%
LA	3.8%	3.9%	3.5%
MA	6.4%	6.0%	6.4%
MD	3.7%	0.0%	3.9%
ME	5.8%	6.1%	5.4%
MI	5.7%	5.9%	5.9%
MN	2.4%	2.7%	2.9%
MO	1.8%	1.5%	0.8%
MS	3.3%	3.3%	3.4%
MT	2.3%	3.4%	2.0%
NC	1.9%	2.5%	2.4%
ND	2.8%	3.6%	3.0%
NE	4.3%	4.1%	5.3%
NH	1.8%	3.0%	2.1%
NJ	2.4%	2.7%	2.9%
NM	4.6%	4.5%	5.2%
NV	2.8%	3.1%	3.4%
NY	7.8%	7.7%	7.5%
OH	4.1%	4.1%	4.0%
OK	3.3%	3.0%	3.5%
OR	-	-	2.9%
PA	0.0%	0.9%	0.0%
PR	0.6%	0.5%	0.0%
RI	5.0%	5.4%	5.0%
SC	3.0%	3.0%	3.1%
SD	4.4%	3.3%	3.6%
TN	0.0%	0.0%	0.0%
TX	2.9%	2.9%	2.9%
UT	4.9%	4.4%	4.0%
VA	1.0%	1.2%	0.9%
VT	1.6%	2.6%	2.4%
WA	2.0%	1.9%	2.2%
WI	1.8%	1.8%	1.8%
WV	2.0%	1.3%	1.9%
WY	2.3%	1.1%	1.9%

2. Child IDs for victims match across years, but sex and date of birth do not match (Limit: >5%)

	FY2010-11	FY2011-12	FY2012-13
AK	0.7%	1.0%	1.6%
AL	1.1%	0.6%	1.3%
AR	0.1%	0.1%	0.1%
AZ	0.1%	0.1%	0.4%
CA	0.3%	0.2%	0.3%
CO	0.8%	0.5%	1.0%
CT	0.0%	0.3%	0.5%
DC	1.7%	1.7%	1.0%
DE	1.5%	0.7%	0.0%
FL	0.3%	0.3%	0.4%
GA	0.5%	0.6%	0.2%
HI	0.0%	0.0%	0.0%
IA	0.4%	0.4%	0.1%
ID	0.0%	0.0%	0.0%
IL	0.5%	1.1%	0.9%
IN	0.9%	0.0%	0.2%
KS	0.0%	0.0%	0.0%
KY	0.4%	0.0%	0.8%
LA	0.5%	1.6%	0.8%
MA	0.8%	0.8%	1.2%
MD	0.2%	0.0%	0.6%
ME	0.0%	0.0%	0.3%
MI	1.2%	1.2%	1.2%
MN	0.0%	0.0%	0.0%
MO	0.0%	0.7%	0.0%
MS	0.0%	0.0%	0.0%
MT	3.6%	10.1%	3.8%
NC	0.0%	0.0%	0.0%
ND	0.0%	0.0%	0.0%
NE	0.5%	0.0%	0.5%
NH	0.0%	0.0%	0.0%
NJ	0.8%	0.2%	1.0%
NM	1.0%	0.4%	0.5%
NV	0.0%	0.0%	0.3%
NY	0.3%	0.3%	0.4%
OH	0.2%	0.3%	0.5%
OK	1.4%	0.8%	2.0%
OR	-	0.0%	0.0%
PA	0.0%	0.0%	6.2%
PR	0.0%	0.0%	0.0%
RI	0.0%	0.6%	2.0%
SC	0.9%	0.8%	1.2%
SD	0.0%	2.4%	0.0%
TN	100.0%	0.3%	0.0%
TX	0.3%	0.4%	0.4%
UT	0.0%	0.2%	0.1%
VA	0.8%	1.4%	1.9%
VT	0.0%	0.0%	3.0%
WA	0.4%	0.8%	0.3%
WI	0.0%	1.8%	1.2%
WV	0.0%	0.0%	0.6%
WY	0.0%	0.0%	0.0%

3. Some victims with AFCARS IDs should match IDs in AFCARS files (Limit: No)

	FY2011	FY2012	FY2013
AL	yes	yes	yes
AK	yes	yes	yes
AZ	yes	yes	yes
AR	yes	yes	yes
CA	yes	yes	yes
CO	yes	yes	yes
CT	yes	yes	yes
DE	yes	yes	yes
DC	yes	yes	yes
FL	yes	yes	yes
GA	yes	yes	yes
HI	yes	yes	yes
ID	yes	yes	yes
IL	yes	yes	yes
IN	yes	yes	yes
IA	yes	yes	yes
KS	yes	yes	yes
KY	yes	yes	yes
LA	yes	yes	yes
ME	yes	yes	yes
MD	yes	yes	yes
MA	yes	yes	yes
MI	yes	yes	yes
MN	yes	yes	yes
MS	no	no	no
MO	yes	yes	yes
MT	yes	yes	yes
NE	yes	yes	yes
NV	yes	yes	yes
NH	yes	yes	yes
NJ	yes	yes	yes
NM	yes	yes	yes
NY	yes	yes	yes
NC	yes	yes	yes
ND	yes	yes	yes
OH	yes	yes	yes
OK	yes	yes	yes
OR	-	yes	yes
PA	-	-	-
PR	-	-	no
RI	yes	yes	yes
SC	yes	yes	yes
SD	yes	yes	yes
TN	no	no	yes
TX	yes	yes	yes
UT	yes	yes	yes
VT	yes	yes	yes
VA	yes	yes	yes
WA	yes	yes	yes
WV	yes	yes	yes
WI	yes	yes	yes
WY	yes	yes	yes

4. Some victims have AFCARS IDs in Child File (Limit: <1%)

	FY2011	FY2012	FY2013
AK	100.0%	100.0%	100.0%
AL	100.0%	100.0%	100.0%
AR	100.0%	100.0%	100.0%
AZ	100.0%	100.0%	100.0%
CA	100.0%	100.0%	100.0%
CO	100.0%	100.0%	99.9%
CT	100.0%	100.0%	100.0%
DC	100.0%	100.0%	100.0%
DE	100.0%	100.0%	100.0%
FL	100.0%	100.0%	100.0%
GA	7.3%	29.8%	30.0%
HI	100.0%	100.0%	100.0%
IA	100.0%	100.0%	100.0%
ID	100.0%	100.0%	100.0%
IL	54.0%	50.6%	49.5%
IN	100.0%	100.0%	100.0%
KS	100.0%	100.0%	100.0%
KY	100.0%	100.0%	100.0%
LA	100.0%	100.0%	100.0%
MA	100.0%	100.0%	100.0%
MD	100.0%	100.0%	100.0%
ME	100.0%	100.0%	100.0%
MI	99.7%	99.8%	100.0%
MN	100.0%	100.0%	100.0%
MO	99.9%	100.0%	100.0%
MS	100.0%	100.0%	100.0%
MT	100.0%	100.0%	100.0%
NC	100.0%	100.0%	97.4%
ND	100.0%	100.0%	100.0%
NE	100.0%	100.0%	100.0%
NH	100.0%	100.0%	100.0%
NJ	100.0%	100.0%	100.0%
NM	100.0%	100.0%	100.0%
NV	100.0%	100.0%	100.0%
NY	65.3%	66.4%	67.5%
OH	100.0%	100.0%	100.0%
OK	100.0%	100.0%	100.0%
OR	0.0%	100.0%	100.0%
PA	0.0%	0.0%	0.0%
PR	0.0%	0.0%	8.0%
RI	100.0%	100.0%	100.0%
SC	100.0%	100.0%	100.0%
SD	100.0%	100.0%	100.0%
TN	100.0%	100.0%	100.0%
TX	100.0%	100.0%	100.0%
UT	100.0%	100.0%	100.0%
VA	100.0%	100.0%	100.0%
VT	24.5%	28.1%	28.2%
WA	100.0%	100.0%	100.0%
WI	100.0%	100.0%	100.0%
WV	100.0%	100.0%	100.0%
WY	100.0%	100.0%	100.0%

5. Missing age for victims (Limit: >5%)

	FY2010	FY2011	FY2012	FY2013
AK	0.1%	0.1%	0.3%	0.6%
AL	0.4%	0.4%	0.5%	0.2%
AR	0.8%	0.6%	0.8%	0.7%
AZ	0.0%	0.0%	0.0%	0.0%
CA	0.0%	0.0%	0.0%	0.0%
CO	0.0%	0.0%	0.0%	0.1%
CT	0.4%	0.5%	0.4%	0.4%
DC	0.0%	0.0%	0.1%	0.0%
DE	0.0%	0.0%	0.0%	0.0%
FL	0.0%	0.0%	0.0%	0.1%
GA	0.0%	0.0%	0.0%	0.0%
HI	0.1%	0.4%	0.3%	0.7%
IA	0.0%	0.0%	0.0%	0.0%
ID	0.0%	0.0%	0.0%	0.0%
IL	0.1%	0.0%	0.0%	0.0%
IN	0.0%	0.0%	0.3%	0.1%
KS	0.1%	0.2%	0.1%	0.0%
KY	0.0%	0.0%	0.0%	0.0%
LA	0.0%	0.0%	0.0%	0.0%
MA	0.2%	0.2%	0.2%	0.2%
MD	0.0%	0.1%	0.3%	0.3%
ME	0.0%	0.0%	0.1%	0.1%
MI	0.0%	0.0%	0.0%	0.0%
MN	0.0%	0.0%	0.0%	0.0%
MO	0.0%	0.0%	0.0%	0.0%
MS	0.0%	0.0%	0.0%	0.0%
MT	2.1%	2.2%	2.2%	1.8%
NC	0.0%	0.0%	0.2%	0.1%
ND	6.8%	0.8%	0.6%	0.3%
NE	0.1%	0.2%	0.1%	0.4%
NH	0.0%	0.0%	0.0%	0.0%
NJ	0.4%	0.2%	0.3%	0.2%
NM	0.4%	0.4%	0.5%	0.6%
NV	0.0%	0.0%	0.0%	0.0%
NY	0.0%	0.0%	0.0%	0.0%
OH	0.6%	0.5%	0.5%	0.2%
OK	0.1%	0.1%	0.0%	0.2%
OR	-	-	0.1%	0.6%
PA	0.1%	0.1%	0.0%	0.0%
PR	0.0%	0.1%	0.3%	7.2%
RI	0.1%	0.2%	0.1%	0.1%
SC	0.0%	0.0%	0.0%	0.0%
SD	0.6%	0.3%	0.5%	0.3%
TN	0.3%	1.4%	1.3%	1.2%
TX	0.0%	0.0%	0.1%	0.1%
UT	0.0%	0.0%	0.0%	0.0%
VA	1.5%	1.3%	2.1%	1.9%
VT	0.0%	0.0%	0.0%	0.0%
WA	0.3%	0.1%	0.1%	0.0%
WI	0.5%	0.3%	0.4%	0.1%
WV	1.4%	1.9%	2.6%	2.7%
WY	0.0%	0.0%	0.0%	0.0%