



CJARS Justice Outcomes Explorer (JOE)

Jordan Papp

University of Michigan

October 2023

Any conclusions expressed herein are those of the authors and do not reflect the views of the U.S. Census Bureau. All results were approved for release by the Disclosure Review Board of the U.S. Census Bureau (Data Management System number: P-7500378, Disclosure Review Board (DRB) approval numbers: CBDRB-FY23-0516, 9/29/2023).

CJARS Justice Outcomes Explorer (JOE)

October 2023 1 / 9

Overview of JOE







- Greater transparency and accountability for the U.S. justice system
- Demonstrate scope of linked CJARS + Census Bureau data
- Make aggregate statistics available without barriers to access
- Give partner agencies an unprecedented view of their own performance
- Provide a powerful tool for asking new questions about the criminal justice system



- Criminal justice administrators interested in comparing themselves to other jurisdictions
- The general public interested in gaining a better understanding about the impact of the justice system
- Researchers who only need access to aggregate statistics or are developing FSRDC proposals

Available Statistics on JOE



- Caseload characteristics
 - Per capita rates (e.g., incarceration rates)
 - Case outcomes (e.g., sentencing)
- Follow-up statistics
 - Recidivism
 - Health outcomes: Medicaid, Medicare, SSI take-up, mortality
 - Economic outcomes: employment status, earnings, HUD take-up
- Breakdowns of statistics
 - State, commuting zone, and county geographies
 - Follow-up periods (e.g., 1 year recidivism)
 - Cohorts (e.g., people released from prison in 2010)
 - Two-way demographic combinations of sex, race, and age group, plus criminal history and offense type

Stats Production



- CJARS data serves as the basis for production of caseload statistics
 - Based on University of Michigan data not Title 13 data
- CJARS data is linked at Census via Protected Identification Key (PIK) to:
 - IRS W-2 information returns
 - SSA SSI records
 - HUD rental housing data
 - Medicaid enrollment data
 - Medicare enrollment data
 - Census Numident
 - Census BestRace files
- Aggregation to reduce disclosure risk (e.g., geographic)
- Weighting of estimates to account for record linkage selection

Data Quality Review



- Automation built in to flag potentially problematic statistics
- Human review of caseload statistics via interactive dashboard
- Propagate results of caseload review to dependent statistics

ŧ #	Entires per capita, incarcentarie 🗙
	Plagged saries only
State	Artpana 👻
	Show related series
inere y	AZ 000 starmida 🗢
	Figure 16
	Arizona - Entries per capita, incarceration
	The state of the state of the
0.0	235 - Rural (measured in final year)
	Flagged series
0.0	230 Excluded point
5	@ Geo flag
8 0.0	225 - Blind Rug
24	Beunde
2 68	120 - Blahoma
8	Horida
e e oz	Samagan Harrison
2	
	CRAikrado fuer York
5	Ninkagunon.
5 0.0	
	Ministota
00	105 Minnesota
0.0	
0.0	205 - Menesida 200 1990 1995 2000 2005 2016 2015 2020
0.0	200 200
0.0	1990 1995 2000 2010 2015 2020
0.0	009 1990 1995 2000 2005 2016 2015 2020

JOE Interface



- Multiple visualization modalities
 - Choropleth maps
 - Scatter plots integrating contextual data (e.g., employment rate, health index)
 - Time series
 - Tabular information
- Direct export of data visuals for convenient use
- Bulk download of statistical database



JOE Demonstration



To JOE!

October 2023 9 / 9