Updated BJA Dataset Analysis

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General BJA Dataset Observations:

- BJA dataset contains 2,297 entries for systems that don't exist in our dataset.
- BJA dataset ranges from 2019-2024.

Missing BJA Systems:

- BOP
- ICE
- TN

Missing Third City Project Systems:

- IL
- IN
- ME
- MD
- MA
- MI
- NJ
- NY
- ND
- OH
- PRRI
- WV
- WI
- GU
- AmSa

BJA vs. Third City Project Collected Variables

bja_cols	tcp_cols
Manner of Death	$c_ind_cod_type$
Concat ID	ind_id
Gender	c_ind_gender
Location of Death	$ind_deathloc$
Middle Name	ind_middle
Race	c_ind_race
State	c_system_abbr
Time of Death	$\operatorname{ind_tod}$
Age	c_ind_age
Birth Year	$c_ind_dob_year$
Brief Circumstances	$combo_COD_c$
Calendar Year Death	$c_ind_dod_ymd$
Date of Death	$c_ind_dod_ymd$
Decedent	c_ind_last
Ethnicity	$c_ind_ethnicity$
First Name	c_ind_first

Addition Relevant BJA Columns/Variables:

- Location Type
- Zip Code
- Age Range
- City

Additional Relevant TCP Columns/Variables:

- \bullet c_ind_fachoused
- c_ind_offense_date_ymd

BJA vs. Third City Project Number of Recorded Individual Deaths by System

system	count_bja	count_tcp
AK	27	40
AL	489	11
AR	22	37
AZ	74	1301
AmSa	1	NA
CA	1027	283

system	$count_bja$	$count_tcp$
CO	173	7
CT	26	4
\overline{DC}	25	17
DE	40	125
FL	1546	3211
GA	579	110
GU	3	NA
HI	43	96
IA	142	154
ID	122	50
IL	24	NA
IN	426	NA NA
KS		20
	127	
KY	65	1
LA	178	2
MA	81	NA
MD	158	NA
ME	5	NA
MI	372	NA
MN	75	10
MO	218	3
MS	90	4
MT	60	64
NC	456	138
ND	7	NA
NE	112	147
NH	8	11
NJ	202	NA
NM	15	2
NV	12	795
NY	126	NA
OH	70	NA
OK	2	9
OR	155	31
PA	453	133
PR	10	NA
RI	2	NA
SC	422	56
SD	33	196
TX	1617	180
UT	75	19
VA	20	12
VT	2	27
WA	8	16
WI	$22\overline{5}$	NA
WV	92	NA
WY	34	28
BOP	NA	311
ICE	NA	58
TN	NA	20
NA	NA	8848
1111	11/11	

BJA vs. Third City Project Number of Recorded Individual Deaths by COD

cod	cod_count_bja	cod_count_tcp
Accident	515	NA
Execution	6	750
Homicide	397	654
Homicide by LEO	1247	13
Natural	5590	8650
Other	460	NA
Pending	1295	856
Suicide	866	769
COVID-19	NA	562
Drug / Alcohol	NA	17
Unintentional non-Drug Injury	NA	996
Unknown	NA	3320

Mapping BJA to Third City Project

```
#filter out entries that have conflicting dod values
joined %>%
filter(dod == c_ind_dod_ymd)
```

```
## # A tibble: 1,405 x 29
      system full_id
                                  first_name middle_name last_name dod
                                                                              cod
##
      <chr> <chr>
                                  <chr>
                                             <chr>
                                                         <chr>
                                                                   <date>
                                                                              <chr>
## 1 FL
            RAMIREZADELADEL CAR~ ADELA
                                             Del Carmen~ RAMIREZ
                                                                   2020-07-25 Natu~
## 2 FL
            DAVILAJOSEFASOCORRO~ JOSEFA
                                             Socorro
                                                         DAVILA
                                                                   2020-06-25 Natu~
## 3 FL
            ROMANESLOTIATFL2020~ LOTIA
                                             Т
                                                         ROMANES
                                                                   2020-04-09 Natu~
## 4 FL
            SOLOMONCHINETTEANDR~ CHINETTE
                                             Andrea
                                                         SOLOMON
                                                                   2019-11-04 Natu~
## 5 FL
            MUSIALRUTHMARIEFL20~ RUTH
                                             Marie
                                                         MUSIAL
                                                                   2019-10-08 Natu~
## 6 FL
            WILLIAMSTYRALATIFAF~ TYRA
                                             Latifa
                                                         WILLIAMS
                                                                   2020-06-25 Natu~
## 7 FL
            FAULKSPAMELADENISEF~ PAMELA
                                             Denise
                                                         FAULKS
                                                                   2020-08-04 Natu~
## 8 FL
            GREENBARBARAJEANFL2~ BARBARA
                                             Jean
                                                         GREEN
                                                                   2020-05-12 Natu~
## 9 FL
            TETERBRITTANYELIZAB~ BRITTANY
                                             Elizabeth
                                                         TETER
                                                                   2020-05-12 Natu~
## 10 FL
            COLLINSKIMBERLYJEAN~ KIMBERLY
                                                         COLLINS
                                                                   2020-02-11 Natu~
## # i 1,395 more rows
## # i 22 more variables: cod_description <chr>, death_loc <chr>, tod <chr>,
## #
       age <dbl>, gender <chr>, race <chr>, ethnicity <chr>, dob_year <dbl>,
      ci_type <chr>, c_ind_full_name <chr>, c_ind_first <chr>, c_ind_last <chr>,
      c_ind_dob_year <dbl>, c_ind_gender <chr>, c_ind_cod_type <chr>,
## #
```

```
## # c_ind_race <chr>, c_ind_ethnicity <chr>, c_ind_dod_ymd <date>,
## # ind_tod <chr>, ind_deathloc <chr>, c_ind_fachoused <chr>, ...
```