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United States White Victim Homicide Clearance

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There is increasing awareness that race-of-victim analysis is an insufficient lens on race discrimination in homicide prosecutions. There is no question that defendants with white victims are treated more harshly than ones with black victims, but it does not follow that black and white defendants in white victim cases are treated equally.

On the contrary, all my studies have found the gap between severe and mild treatment of black defendants, depending upon the race of the victim, is the area of largest statistical imbalance among the four possible offender/victim combinations of black and white. Furthermore, any initial gap only widens as prosecutions extend step by step through the dozens of months from arrest to final judgment. This was true in both of my recent studies of Louisiana and Georgia[2], where 97% of the chi-square goodness-of-fit statistical significance in each study was in the black defendant cases – 80% too many B-W and 17% too few B-B in Louisiana, and 76% too many B-W and 21% too few B-B in Georgia.

Yet each of these imbalances started with the first step, that of homicide "clearance," the FBI term for the identification of a person or persons for arrest in filings to the FBI, usually four times a year, for annual reports called Supplemental Homicide Reports (SHRs).

"Persons" in plural – those cases with multiple defendants identified for arrest – is the subject of this study. Fifty percent of black defendants with white victims (B-W case defendants) nationwide have co-defendants in their case, while only 30% of W-W case defendants have them. This large gap, visible here at the first step of prosecution, is hidden by race-of-victim analysis.

The above percentages are from the *population* of this study: 692,604 "offenders" (the FBI term for arrestees) identified not by name but by demographics in the SHRs for all 50 states plus the District of Columbia, from the inception of SHRs in 1976 through 2023, the last full year on record at the time of writing[3]. To get this population, all negligent and justified homicides have been removed. Also, the 3.2% (19,197) of cleared homicides that did not include both a black-or-white offender and a black-or-white victim as principals have been counted but set aside. The 96.8% of cleared homicides involving blacks and whites as principals (B&W Only), are the 692,604 offender population to be analyzed for multiple defendants.

STUDY METHODS

This is an observational study, not an experiment. Furthermore, it is an exploratory or descriptive observational study, meaning no variables are being framed as influencing any others. Various categorical subsets, or "samples," are here compared to the whole

[1] See all of the author's studies at https://ssrn.com/author=1603675

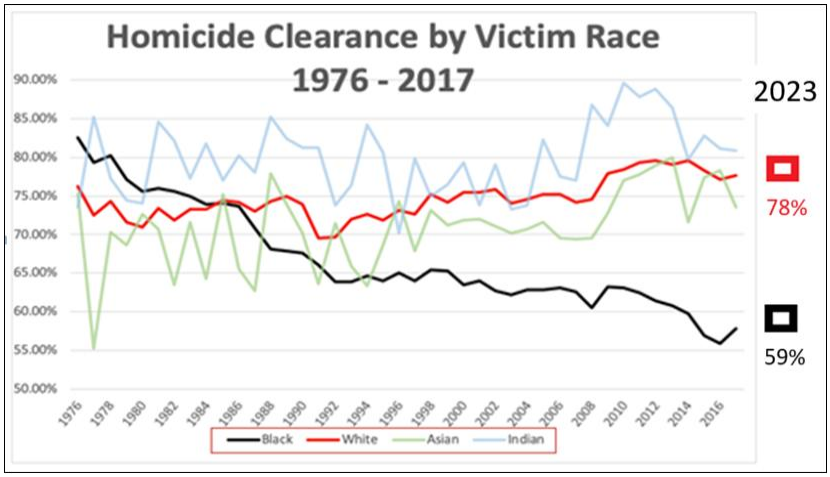
[2] Chi-Grams of Louisiana Capital Charging at https://ssrn.com/abstract=4148636 and Reassessing Baldus Study Data of Georgia at https://ssrn.com/abstract=4690530.

[3] Special thanks to IT guru Matthew Dugal for his help in corralling this data.

population race category distribution to see how well they agree, thus testing the null hypothesis that "homicide defendants are arrested without regard to race."

CLEARANCE AND THE MURDER ACCOUNTABILITY PROJECT (MAP)

The clearance rate of homicides has diminished steadily these nearly 50 years since Death Penalty reinstatement.Black victims account for the entire decline in law enforcement's rate of clearing murders through the naming of suspected offenders for arrest (the precise definition of clearance).



The annual national total of cleared homicides was above 12,000 between 1971 and 1995, and below that number every year since. Uncleared homicides have vacillated between 6,000 and 10,000 per year, generally smaller during Democratic presidencies and larger during Republican.[4]

The Murder Accountability Project received approval by the FBI to modify the SHRs so that they are easier to count. Specifically, they separated the first line of data from successive lines in multi-line homicide incident reporting, and counted these extra lines in separate columns. Thus the first line Offender / Victim demographic establishes the race category ID for each homicide incident. (It stands to reason that the first people listed in the police filing would best represent the incident, and the FBI concurred.) Then, extra offenders and victims in the incident record are summed in new independent columnar fields called VicCount and OffCount. It is the sum of OffCount (OC) that is of primary interest in this analysis, since extra victims are mere aggravators in any defendant's case against a life or death sentence.

CLEARANCE GAPS IN RACE CATEGORIES, BY HOMICIDE SITUATIONS

The 50% to 30% difference between B-W and W-W frequency of co-defendants in homicide cases is clearly visible on the next page. Extra defendants proliferate in B-W homicides, relative to the other race categories, and W-W extra defendants trail the other race categories nationwide.

[4] The graphic and trends in cleared and uncleared homicides reported to the FBI are from the Clearance Rate tab of MAP at www.murderdata.org.

US HOMICIDES BY SITUATION AND RACE CATEGORY

Here is an overview of the USA homicides reported to the FBI since the death penalty was reinstated in 1976.

Orange indicates under average, green indicates over average, yellow indicates the multiple defendant categories, and blue highlights the gap of over 10,000 extra suspect arrests above and below the overall average in the B-W and W-W categories.

SHR Homicide SIT codes, 1976-2023 *(from murderdata.org)* All non-negligent, non-justified B&W Only USA homicides.

	Solo vs. Solo		Solo vs. Multiple		Multiple vs. Solo		Multiple vs. Multiple		
	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Row Totals
					Column F	Column G	Column H	Column I	Column J
Confederacy	Row Distribution:								
ALL (avg.)	***62.2%***	190,176	***5.2%***	16,015	***27.9%***	85,338	***4.6%***	14,000	305,529
B-B	*64.0%*	96,315	*3.8%*	5,757	*27.7%*	41,650	*4.4%*	6,677	150,399
B-W	*43.8%*	12,607	*4.7%*	1,344	*44.6%*	12,844	*6.9%*	1,993	28,788
W-B	*53.3%*	5,115	*4.1%*	397	*37.7%*	3,624	*4.9%*	469	9,605
W-W	*65.2%*	76,139	*7.3%*	8,517	*23.3%*	27,220	*4.2%*	4,861	116,737
Column Totals:		190,176		16,015		85,338		14,000	305,529
Northeast	Row Distribution:								
ALL (avg.)	***62.1%***	72,167	***5.4%***	6,258	***28.9%***	33,550	***3.6%***	4,157	116,132
B-B	*64.3%*	37,482	*3.6%*	2,100	*28.8%*	16,772	*3.3%*	1,917	58,271
B-W	*47.6%*	5,868	*4.3%*	524	*43.2%*	5,316	*4.9%*	608	12,316
W-B	*54.4%*	2,897	*3.8%*	202	*37.6%*	2,005	*4.2%*	226	5,330
W-W	*64.5%*	25,920	*8.5%*	3,432	*23.5%*	9,457	*3.5%*	1,406	40,215
Column Totals:		72,167		6,258		33,550		4,157	116,132
Plains	Row Distribution:								
ALL (avg.)	***57.4%***	75,774	***5.7%***	7,585	***31.7%***	41,846	***5.2%***	6,873	132,078
B-B	*56.7%*	38,610	*3.6%*	2,442	*34.9%*	23,745	*4.9%*	3,313	68,110
B-W	*43.7%*	5,287	*5.2%*	625	*44.2%*	5,347	*6.9%*	836	12,095
W-B	*49.4%*	1,945	*3.7%*	145	*36.9%*	1,454	*10.1%*	396	3,940
W-W	*62.4%*	29,932	*9.1%*	4,373	*23.6%*	11,300	*4.9%*	2,328	47,933
Column Totals:		75,774		7,585		41,846		6,873	132,078
Rockies	Row Distribution:								
ALL (avg.)	***57.4%***	79,701	***6.0%***	8,323	***32.3%***	44,803	***4.3%***	6,038	138,865
B-B	*60.3%*	16,523	*3.7%*	1,028	*32.0%*	8,779	*4.0%*	1,088	27,418
B-W	*48.5%*	5,681	*4.2%*	486	*42.3%*	4,952	*5.0%*	590	11,709
W-B	*51.4%*	2,841	*3.5%*	196	*41.2%*	2,278	*3.9%*	217	5,532
W-W	*58.0%*	54,656	*7.0%*	6,613	*30.6%*	28,794	*4.4%*	4,143	94,206
Column Totals:		79,701		8,323		44,803		6,038	138,865
USA	Row Distribution:								
ALL (avg.)	***60.3%***	417,818	***5.5%***	38,181	***29.7%***	205,537	***4.5%***	31,068	**692,604**
B-B	*62.1%*	188,930	*3.7%*	11,327	*29.9%*	90,946	*4.3%*	12,995	304,198
B-W	*45.4%*	29,443	*4.6%*	2,979	*43.8%*	28,459	*6.2%*	4,027	64,908
W-B	*52.4%*	12,798	*3.9%*	940	*38.4%*	9,361	*5.4%*	1308	24,407
W-W	*62.4%*	186,647	*7.7%*	22,935	*25.7%*	76,771	*4.3%*	12,738	299,091
Column Totals:		417,818		38,181		205,537		31,068	**692,604**
key:	>25% below avg.		>20% below avg.		>125% of avg.		>150% of avg.		
USA	**Columnar Distribution:**								
		Col%		Col%		Col%		Col%	**Col% Avg**
ALL Row %s	*60%*		*6%*		*30%*		*4%*		*100.0%*
% of column:									
B-B		45%		30%		44%		42%	**44%**
B-W		7%		8%		14%		13%	**9%**
W-B		3%		2%		5%		4%	**4%**
W-W		45%		60%		37%		41%	**43%**

		Observed	Expected	*Observed versus Expected Calculations*					Effect Size	
									Cramer's V	Cohen's W
All Mult Defendants		Col. J * Avg %	Obs – Exp	Obs/Exp	Ratio	Std Res	χ^2		0.06=small	< 0.3=small
Percent	Count	(Apply AVG)	*difference:*	Dev Quo					0.17=medium	< 0.5=medium
Cols F+H	*Cols G+I*		O – E	O / E	O : E	O – E / √E	$(O - E)^2$ / E		0.29=large	> 0.5=large
									√ (χ^2 / (O*df))	√(χ^2 / E)
32.5%	99,338	99,338	0	1.000						
32.1%	48,327	48,900	-573	0.988	1 : 1	-2.59	6.71		0.01	0.01
51.5%	14,837	9,360	5,477	1.585	5 : 3	56.61	3204.91		0.27	0.46
42.6%	4,093	3,123	970	1.311	4 : 3	17.36	301.34		0.16	0.27
27.5%	32,081	37,955	-5,874	0.845	6 : 7	-30.15	909.14		0.10	0.17
	99,338	99,338	0	1.000		χ^2 Sum:	4422.10		0.12	0.21
32.5%	37,707	37,707	0	1.000						
32.1%	18,689	18,920	-231	0.988	1 : 1	-1.68	2.82		0.01	0.01
48.1%	5,924	3,999	1,925	1.481	3 : 2	30.44	926.77		0.23	0.40
41.9%	2,231	1,731	500	1.289	5 : 4	12.03	144.69		0.15	0.25
27.0%	10,863	13,057	-2,194	0.832	5 : 6	-19.20	368.80		0.11	0.18
	37,707	37,707	0	1.000		χ^2 Sum:	1443.08		0.11	0.20
36.9%	48,719	48,719	0	1.000						
39.7%	27,058	25,123	1,935	1.077	1 : 1	12.21	148.97		0.04	0.07
51.1%	6,183	4,461	1,722	1.386	7 : 5	25.77	664.32		0.19	0.33
47.0%	1,850	1,453	397	1.273	5 : 4	10.41	108.27		0.14	0.24
28.4%	13,628	17,681	-4,053	0.771	3 : 4	-30.48	928.99		0.15	0.26
	48,719	48,719	0	1.000		χ^2 Sum:	1850.55		0.11	0.19
36.6%	50,841	50,841	0	1.000						
36.0%	9,867	10,038	-171	0.983	1 : 1	-1.71	2.92		0.01	0.02
47.3%	5,542	4,287	1,255	1.293	4 : 3	19.17	367.48		0.15	0.26
45.1%	2,495	2,025	470	1.232	5 : 4	10.44	108.90		0.12	0.21
35.0%	32,937	34,491	-1,554	0.955	1 : 1	-8.37	69.97		0.03	0.05
	50,841	50,841	0	1.000		χ^2 Sum:	549.27		0.06	0.10
34.2%	236,605	236,605	0	1.000						
34.2%	103,941	103,919	22	1.000	1 : 1	0.07	0.00		0.00	0.00
50.0%	32,486	22,174	10,312	1.465	3 : 2	69.25	4795.99		0.22	0.38
43.7%	10,669	8,338	2,331	1.280	5 : 4	25.53	651.77		0.14	0.25
29.9%	89,509	102,174	-12,665	0.876	6 : 7	-39.62	1570.00		0.08	0.13
	236,605	236,605	0	1.000		χ^2 Sum:	7017.76		0.10	0.17

>10% below avg.

10,312 too many B-W, out of only 22,174 expected.

50% of B-W defendants are co-defendants; 30% of W-W defendants are.

All Mult Def Avgs %
44%
14%
5%
38%

The Effect Size measurements of *medium* for B-W on the right indicate *moderate* departure from the null hypothesis (i.e., no race bias at arrest): "a noticeable but not drastic association between variables expected to be independent; one that is practically meaningful, not just statistically significant (which can be influenced by large sample size); and one that has a real-world relevance, but not a dramatic association".[5] What is dramatic, however, is the uniformity of the B-W to W-W gap in the arrest of extra suspects, as seen below in the regional results for the original Confederate States of America, since 1976.

THE CONFEDERACY

Only Texas and Missouri, of the 13 original Confederate States, arrest less than twice as many extra defendants in B-W homicides as in W-W homicides. This average difference for all the states 1976-2023 is 208%. Also note how Alabama has the fewest average Extra

[5]Cohen, J. (1988).*Statistical Power Analysis for the Behavioral Sciences* (2nd ed.) p. 224-227. Hillsdale, NJ: Lawrence Erlbaum Associates. Table 7.1, p. 224, gives the three levels for Cramér's V: 0.06=small, 0.17=medium, and 0.29=large.

Suspects, 7.4%, and South Carolina the most, 32.1%, yet both states have over twice as many B-W as W-W extras.

CONFEDERACY		HOMICIDE ID CLEARANCE RATES			CLEARANCE RATES FOR EXTRA DEFENDANTS IN HOMICIDE INCIDENTS								ALL OFF-VIC RATES				
1861 Secession States	CSA Admit Date (1861)	B&W Only Homicides Cleared	% 0f All, B&W Only Off-Vic IDs	% of All, Other Races Off-Vic IDs	B&W Only Extra Suspects	Extra Suspects: B-W	Extra Suspects: W-W	B-W – W-W Difference	Extra Suspects: B-B	Extra Suspects: W-B	Extra Suspects: Avg All	Compare White Victim Cases: B-W / W-W	B-B %	B-W %	W-B %	W-W %	Other Races %
ALABAMA	13-Mar	12,822	99.4%	0.6%	1,032	14.1%	6.5%	*7.6%*	7.1%	8.4%	7.4%	217%	63	6	3	27	1
GEORGIA	16-Mar	20,068	98.8%	1.2%	4,018	28.9%	12.6%	*16.3%*	16.5%	21.9%	16.7%	230%	65	7	3	24	1
LOUISIANA	21-Mar	17,276	99.2%	0.8%	3,359	29.1%	13.6%	*15.5%*	15.2%	23.7%	16.3%	214%	69	7	3	20	1
TEXAS	23-Mar	59,483	98.2%	1.8%	15,948	32.7%	19.9%	*12.8%*	19.0%	28.7%	21.1%	164%	31	7	4	56	2
MISSISSIPPI	29-Mar	7,008	99.2%	0.8%	1,385	28.7%	12.7%	*16.0%*	16.2%	17.3%	16.5%	226%	72	6	3	19	1
S CAROLINA	03-Apr	14,563	99.2%	0.8%	6,897	45.9%	21.9%	*24.0%*	34.0%	36.9%	32.1%	210%	57	8	3	31	1
FLORIDA	22-Apr	31,575	99.2%	0.8%	5,262	25.1%	11.2%	*13.9%*	20.1%	14.0%	14.3%	224%	39	11	6	44	1
VIRGINIA	07-May	16,146	98.5%	1.5%	5,024	34.4%	17.1%	*17.3%*	25.5%	28.4%	23.7%	201%	52	8	4	35	2
ARKANSAS	18-May	7,896	99.3%	0.7%	2,240	36.8%	16.3%	*20.5%*	23.0%	34.4%	22.1%	226%	50	7	3	39	1
N CAROLINA	20-May	21,037	96.4%	3.6%	6,036	36.0%	16.5%	*19.5%*	22.6%	31.0%	22.3%	218%	52	8	3	33	4
TENNESSEE	02-July	16,288	99.1%	0.9%	4,466	34.8%	16.0%	*18.8%*	22.3%	27.2%	21.6%	218%	53	8	4	34	1
MISSOURI	28-Nov	13,013	99.1%	0.9%	3,381	28.2%	15.7%	*12.5%*	22.5%	26.5%	20.6%	180%	51	7	4	37	1
KENTUCKY	10-Dec	7,692	99.3%	0.7%	1,614	31.3%	15.0%	*16.3%*	18.3%	23.1%	17.3%	209%	24	7	3	65	1
Total:		244,867		2,861	60,662	*Cleared B/W Only Total=*			***305,529***	(cols C + F)							
Average:		**18,836**	**98.8%**	**1.2%**	**4,666**	**31.2%**	**15.0%**	***16.2%***	**20.2%**	**24.7%**	**19.4%**	**208%**	**52**	**7**	**4**	**36**	**1**
Range:		7K - 59K	*96.4 - 99.4*	*0.6 - 1.8*		*14 - 46*	*7 - 22*	8 - 24	*13 - 24*	*16 - 28*	*15 - 23*	*166%-230%*					
Median:		16.1 K	*99.1*	*0.8*		*31.3*	*15.7*	*16.3*	*20.1*	*26.5*	*20.6*	*208%*					

REGIONAL OVERVIEW

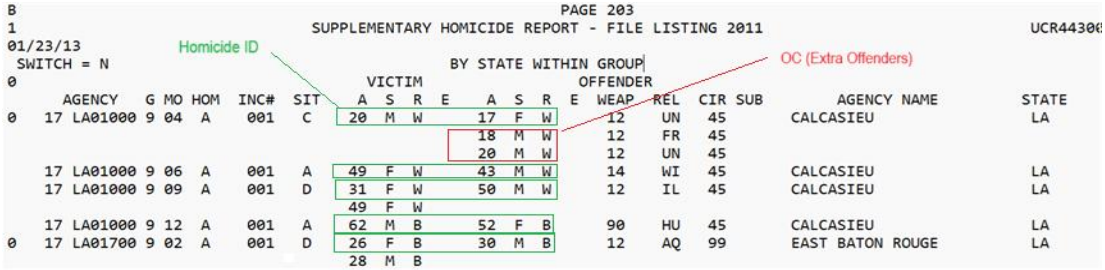
Comparing the other regions of the USA to the Confederacy, the same B-W to W-W gaps appear, only to a slightly lesser degree.Even in the Far West, where W-W cases dominate the race categories, there are still excess arrests of extra suspects in B-W cases, a lack in W-W, with the other two categories in between.[6]

ALL USA REGIONS	RACE HOMICIDE ID CLEARANCE RATES				CLEARANCE RATES FOR EXTRA DEFENDANTS IN HOMICIDE INCIDENTS							ALL OFF-VIC RACE RATES				
Overview of Homicides by Off-Vic Race Category	Homicide Incidents Cleared	% Cleared, *B&W Only* Off-Vic IDs	% Cleared, *Other Races* in Off-Vic IDs	B&W Only Extra Suspects	Extra Suspects: B-W	Extra Suspects: W-W	B-W to W-W Difference	Extra Suspects: B-B	Extra Suspects: W-B	Extra Suspects: Avg, All	Compare White Victim Cases: B-W / W-W	B-B %	B-W %	W-B %	W-W %	Other Races %
		Column C		Column E												
1. Confederacy																
13 State Total:	247,870	244,867	3,003	60,662	*Cleared B/W Only Total=*			***305,529***	(colC+colE)							
Average:	19,067	*98.8%*	*1.2%*	4,666	31.2%	15.0%	*–16.2%*	20.2%	24.7%	19.9%	204%	52	7	4	36	1
2. Northeast																
12 State Total:	96,013	93,900	2,113	22,232	*Cleared B/W Only Total=*			***116,132***	(colC+colE)							
Average:	8,001	*97.8%*	*2.2%*	1,853	28.9%	16.0%	*– 12.9%*	18.8%	25.1%	19.1%	170%	48	9	5	36	2
3. Plains																
13 State Total:	106,864	102,280	4,584	29,798	*Cleared B/W Only Total=*			***132,078***	(colC+colE)							
Average:	8,220	*95.7%*	*4.3%*	2,292	31.8%	17.2%	*–14.6%*	24.3%	29.1%	22.6%	189%	42	8	4	42	4
4. Far West																
13 StateTotal:	117,799	108,302	9,497	30,563	*Cleared B/W Only Total=*			***138,865***	(colC+colE)							
Average:	9,061	*92.0%*	*8.0%*	2,351	28.7%	21.0%	*–7.7*	21.6%	27.5%	22.0%	142%	12	5	4	71	8
							Grand Total=	**692,604**								
TOTALS	**568,546**	**549,349**	**19,197**	**143,255**	19,972	53,575		63,162	6,546	20.7%						
AVERAGE ALL					**30.8%**	**18.0%**	***–12.8***	**20.8%**	**26.8%**	**20.7%**	**176%**	47	8	4	38	3

THE GAP BETWEEN ID AND OC FREQUENCY

A deeper metric is found after tallying the homicide incident IDs – that is, the race of offender and victim on the first line in the SHR report, which establishes the incident race category as B-B, B-W, W-B, or W-W. This delivers a state's baseline of homicide race category frequency.

[6] The rightmost Other Races category increases in the Far West, where more Asians and American Indians live. It is not the thrust of this study, but in those states where O-W is greater than B-W, extra defendant totals are also a much greater percentage than W-W extra defendants. (Note that Hispanic is an ethnicity, not a race, and their race is recorded as W or, rarely, as B.)



These state homicide ID frequencies are then compared to those of the Extra Offenders from subsequent lines in the SHR incidents, counted by MAP in a single column labeled Off Count (OC), that take on the incident ID's race category. This allows all homicide incidents to sum to the same number of offenders, victims, and other SHR fields as the number of incidents. Finally, the OCs are tallied, and their race category frequencies are compared to those of the homicide IDs. Without this MAP technique approved by the FBI, mixed races among offenders and victims are quite uncountable[7]. The gap between ID and OC frequency of B-W and W-W is similar in most all US states, and reveals a bit more about the B-W to W-W patterns of disparity across the land.

CONTINUING TO FOCUS ON OFFENDER RACE GAPS IN WHITE VICTIM CASES

Before looking at the rank of all states in the combined gap between ID and OC frequency in the B-W and W-W race categories, let's review the bottom line in the Regional Overview above, the average representation of Extra Offenders in total clearances for each race category:

Race Category	Count of OC	Count of ID	Count of Both	OC, % of All Clearances
B-B	63,066	241,132	304,198	20.7%
B-W	19,957	44,951	64,908	30.8%
W-B	6,538	17,869	24,407	26.8%
W-W	53,694	245,397	299,091	18.0%
Total, Average All	143,255	549,349	692,604	20.7%

B-B, the largest category, is right at the overall average.Cross-race extra arrests are above that average[8], and W-W below it. Now let us look at the ID to OC frequency gaps between B-W and W-W in all states.

THE ID TO OC FREQUENCY GAP IN WHITE VICTIM DEFENDANT RACE

The state rankings of the ID to OC gaps, both for B-W and for W-W, plus the sum of both, are below:

[7] In Louisiana, with its fluid racial history, I spent many hours counting the particular identified races in mixed race homicide incidents, resulting in negligible differences from the race totals using the simpler FBI-sanctioned MAP method.

[8] Note that W-B is only 3.5% of all clearances, and that the history of U.S. vigilantism is rife with W-B extra arrests.

	WHITE VICTIM EXTRA DEFENDANT GAPS (OC), BLACK AND WHITE DEFENDANTS							***Total***
		Percent of Total ID and of Total OC				***B-W Gap***	***W-W Gap***	Gap Difference
Region	**States**	B-W ID	B-W OC	W-W ID	W-W OC	(ID – OC)	(ID – OC)	BW Gap – WW Gap
Plains	Iowa	8.2%	13.4%	68.4%	37.7%	-5.20%	30.70%	35.90%
Plains	Minnesota	10.6%	14.8%	49.2%	24.3%	-4.23%	24.89%	29.11%
Northeast	Maine	4.9%	14.3%	91.9%	73.6%	-9.37%	18.28%	27.65%
Plains	Wisconsin	8.6%	13.3%	41.3%	21.0%	-4.70%	20.31%	25.01%
Plains	North Dakota	6.2%	12.0%	84.6%	66.7%	-5.77%	17.97%	23.74%
Confederacy	Florida	10.0%	20.1%	45.5%	34.5%	-10.10%	11.05%	21.15%
Northeast	New Jersey	9.7%	19.5%	36.4%	25.5%	-9.77%	10.86%	20.62%
Confederacy	Arkansas	7.4%	15.1%	39.3%	26.9%	-7.75%	12.43%	20.18%
Confederacy	South Carolina	8.6%	15.4%	30.4%	18.0%	-6.80%	12.45%	19.25%
Far West	Washington	8.0%	15.3%	73.4%	61.5%	-7.23%	11.90%	19.13%
Confederacy	Tennessee	8.2%	15.9%	36.0%	24.9%	-7.74%	11.08%	18.82%
Confederacy	North Carolina	8.4%	16.5%	34.0%	23.3%	-8.05%	10.66%	18.72%
Confederacy	Kentucky	6.7%	14.4%	65.9%	55.3%	-7.78%	10.57%	18.35%
Far West	Colorado	8.4%	14.0%	72.0%	60.2%	-5.60%	11.82%	17.42%
Plains	Indiana	9.4%	18.0%	43.0%	34.3%	-8.60%	8.69%	17.29%
Confederacy	Virginia	8.2%	13.8%	34.8%	23.1%	-5.58%	11.66%	17.24%
Northeast	Connecticut	11.6%	18.8%	47.1%	37.2%	-7.20%	9.90%	17.10%
Plains	South Dakota	5.6%	12.0%	88.6%	78.0%	-6.44%	10.61%	17.06%
Northeast	Delaware	9.2%	11.1%	34.1%	19.1%	-1.90%	14.95%	16.86%
Far West	Nevada	9.9%	17.8%	61.8%	53.6%	-7.94%	8.24%	16.19%
Northeast	Rhode Island	11.3%	17.9%	63.0%	53.7%	-6.55%	9.32%	15.87%
Plains	Oklahoma	7.8%	14.1%	60.4%	50.9%	-6.22%	9.46%	15.69%
Northeast	Pennsylvania	8.2%	14.6%	35.1%	25.9%	-6.47%	9.22%	15.69%
Plains	West Virginia	4.9%	10.2%	81.3%	71.5%	-5.35%	9.82%	15.16%
Far West	Alaska	8.4%	11.4%	73.2%	61.4%	-2.93%	11.85%	14.78%
Confederacy	Missouri	7.8%	11.8%	36.5%	26.1%	-4.00%	10.38%	14.38%
Plains	Nebraska	7.7%	13.2%	64.4%	55.6%	-5.50%	8.74%	14.24%
Confederacy	Georgia	6.8%	13.9%	24.7%	17.7%	-7.05%	6.95%	14.00%
Plains	Ohio	8.9%	13.9%	35.1%	26.0%	-4.92%	9.05%	13.97%
Northeast	Vermont	5.3%	4.1%	87.8%	72.6%	1.22%	15.18%	13.95%
Plains	Kansas	10.1%	17.3%	57.6%	50.9%	-7.20%	6.67%	13.87%
Plains	Michigan	7.9%	11.4%	25.2%	16.3%	-3.55%	8.96%	12.51%
Confederacy	Louisiana	7.5%	15.9%	20.5%	16.6%	-8.36%	3.90%	12.26%
Northeast	Massachusetts	9.7%	15.0%	57.3%	50.4%	-5.25%	6.84%	12.09%
Confederacy	Mississippi	6.3%	12.9%	18.9%	13.9%	-6.59%	4.94%	11.53%
Northeast	Maryland	7.7%	12.6%	21.4%	15.3%	-4.93%	6.14%	11.07%
Rockies	Utah	5.5%	8.0%	89.5%	81.0%	-2.55%	8.50%	11.05%
Northeast	New York	11.1%	17.8%	36.8%	32.5%	-6.64%	4.31%	10.95%
Confederacy	Texas	7.9%	14.4%	56.8%	52.7%	-6.48%	4.12%	10.60%
Confederacy	Alabama	6.5%	13.2%	27.6%	23.7%	-6.70%	3.89%	10.59%
Far West	Oregon	5.0%	8.4%	83.1%	76.7%	-3.43%	6.41%	9.84%
Plains	Illinois	6.7%	11.2%	27.7%	23.4%	-4.50%	4.35%	8.85%
Far West	Arizona	7.9%	11.7%	78.1%	73.2%	-3.74%	4.91%	8.65%
Far West	Wyoming	1.8%	6.3%	94.3%	90.2%	-4.41%	4.14%	8.54%
Far West	California	8.0%	10.5%	63.3%	62.5%	-2.47%	0.77%	3.23%
Far West	Montana	1.6%	3.4%	95.5%	94.6%	-1.78%	0.92%	2.69%
Far West	New Mexico	5.1%	5.9%	86.9%	85.3%	-0.85%	1.61%	2.47%
Northeast	New Hampshire	2.4%	2.4%	94.7%	92.8%	0.02%	1.95%	1.94%
Far West	Idaho	1.6%	0.0%	96.4%	95.6%	1.56%	0.72%	-0.84%
Northeast	Dst of Columbia	4.5%	4.7%	3.4%	4.5%	-0.17%	-1.08%	-0.92%
Far West	Hawaii	8.4%	8.8%	84.0%	91.2%	-0.45%	-7.15%	-6.70%
	AVERAGE	**7.4%**	**12.6%**	**56.0%**	**47.1%**	**-5.18%**	**8.92%**	**14.09%**

Only the last seven states have less than a large total gap. (Montana, New Hampshire, and Idaho each have >94% W-W ID.)

WHY DOES THIS MATTER?

The playing field is not level at arrest. The tilt is moderate, but it is uniform in all but a few states. Because the black arrestees in white victim homicides are generally poor with slight access to overworked public defender systems, they sit in jail for many months with

neither the means of participating in their defense nor of knowing what co-defendants are saying and being offered. So, the tilt increases with time.

Below are new distillations of tables from my previous two papers that look at homicides and cases researched through to the end, the final case outcome. B-W cases result in a three-time ratio of death verdicts versus W-W cases in the larger Louisiana dataset, and a four-time ratio of death verdicts in the smaller 1970s Georgia data (see the summary row *Death Verdicts/N* in each table).

WINNOWING CASES TOWARD DEATH, LYMAN DATA, LOUISIANA, 1976-2014

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
LYMAN LA DATA 1976-2014	*n* ↓ (Sample)	not B-W #	B-W #	% not B-W	% B-W	*n/N*, All	*n/N*, B-W	Ratio, Col G:H	B-B %	B-W %	W-B %	W-W %	B-B #	B-W #	W-B #	W-W #
formulae:	Col C + D			Col. C / B	Col. D / B	*n* / 7344*	B-W *n* / 723**	Col. G / Col. H***								
	------ counts ------												------ counts ------			
***N:* All Homs, Study Places**	**7344**	**6621**	**723**	**.90**	**.10**	-	-	-	**0.66**	**0.10**	**0.02**	**0.22**	**4828**	**723**	**167**	**1626**
All Homs, Study Years	6512	5768	744	.89	.11	.89	1.03	.86	0.63	0.11	0.03	0.23	4085	744	169	1514
Solo Offender Homicides	4677	4317	360	.92	.08	.64	.50	1.28	0.66	0.08	0.02	0.24	3073	360	115	1129
Multiple Off Homicides	1835	1451	384	.79	.21	.25	.53	.47	0.55	0.21	0.03	0.21	1012	384	54	385
Capitally Indicted Cases	1822	1420	402	.78	.22	.25	.56	.45	0.51	0.22	0.04	0.23	929	402	64	427
Case-to-Hom Matches	1388	1095	293	.79	.21	.19	.41	.47	0.53	0.21	0.04	0.22	737	293	48	310
Multiple Def Cases	978	727	251	.74	.26	.13	.35	.38	0.49	0.26	0.03	0.22	485	251	31	211
Solo Defendant Cases	844	693	151	.82	.18	.11	.21	.55	0.52	0.18	0.04	0.26	444	151	33	216
Final Charge First Degree	385	263	122	.68	.32	.052	.17	.31	0.31	0.32	0.02	0.35	118	122	11	134
Case Match to Uncleared	213	142	71	.67	.33	.029	.10	.30	0.44	0.34	0.02	0.20	94	71	5	43
Uncleared Match Mults	144	89	55	.62	.38	.020	.076	.26	0.45	0.38	0.00	0.17	64	55	0	25
Death Verdicts	107	63	44	.59	.41	.015	.061	.24	0.26	0.41	0.02	0.31	28	44	2	33
Death Verdicts/N	*1.5%*	*1.0%*	*6.1%*										*0.6%*	*6.1%*	*1.2%*	*2.0%*
Color Key:		Population		decreasing	increasing		see *Note*	ratio drops to 1:4	drops at end	jumps at mults		jumps at end	Black defendant error		White defendant error	

Note: In the many months post-FBI clearance reporting, the B-W count comes to exceed its clearance total (***N*** =723), due to extra and uncleared defendants added after the SHR filing.

* ***n/N*** **All** (Col. G) is the percentage of the blue top row Population ***N*** for all four race categories (7,344) that is the Sample size in column ***n*** (all four B/W race categories, Col. B).
** ***n/N*** **B-W** (Col. H) is the percentage of the Black offender vs. White victim homicide population (723) that is the row's B-W Sample size ***n*** (Col. D).
*** **Ratio, Col G:H** (Col. I) is not to be confused with the synonymous terms Sample to Population, Observed to Expected, and ***n/N***; instead, it simply compares Col. G to Col. H for each Sample.

The Baldus Study data below went to a 5-4 US Supreme Court decision (*McCleskey v. Kemp)* in 1988, nixing statistical analysis of death sentencing in favor of proof of a racist actor, an impossible hurdle.

WINNOWING CASES TOWARD DEATH, BALDUS DATA, GEORGIA, 1973-1979

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
BALDUS GA DATA 1973-1979	*n* ↓ (Sample)	not B-W #	B-W #	% not B-W	% B-W	n/N All	n/N B-W	Ratio Col G:H	B-B%	B-W%	W-B%	W-W%	B-B #	B-W #	W-B #	W-W #
formulae:	Col C + D			Col. C / B	Col. D / B	*n* / 3254*	*n* / 186**	Col. G / Col. H***								
	------ counts ------												------ counts ------			
***N:* All Cleared Homicides**	**3254**	**3068**	**186**	**.94**	**.06**	-	-	-	**0.64**	**0.06**	**0.02**	**0.28**	**2089**	**186**	**55**	**924**
Baldus Universe Cases	2484	2251	233	.91	.09	.76	1.25	.61	0.58	0.09	0.02	0.30	1444	233	60	747
Murder Indictments	2343	2112	231	.90	.10	.72	1.24	.58	0.57	0.10	0.02	0.30	1347	231	55	710
Guilt at Murder Trial	606	476	130	.79	.21	.19	.70	.27	0.38	0.21	0.02	0.38	232	130	14	230
All Multiple Defendants	509	374	135	.73	.27	.16	.73	.22	0.41	0.27	0.01	0.31	207	135	7	160
Extra Defendants	305	219	86	.72	.28	.094	.46	.20	0.39	0.28	0.01	0.31	119	86	4	96
Death Penalty Trials	253	160	93	.63	.37	.078	.50	.16	0.17	0.37	0.02	0.44	44	93	4	112
Death Verdicts	130	78	52	.60	.40	.040	.28	.14	0.13	0.40	0.02	0.45	17	52	2	59
Executions	25	13	12	.52	.48	.008	.065	.12	0.08	0.48	0	0.44	2	12	0	11
Death Verdicts/N	*4.0%*	*2.5%*	*28.0%*										*0.8%*	*28.0%*	*3.6%*	*6.4%*
Color Key:		Population		decreasing	increasing		see *Note*	ratio drops to 1:8	drops at trial	jumps at trial		jumps at trial	Black Def error		White Def error	

Note: In the many months post-FBI clearance reporting, the B-W total comes to exceed its clearance total (***N*** =186), due to extra and uncleared defendants added after the SHR filing.

* ***n/N*** **All** is the percentage of the blue top row Population ***N*** of all four B/W race category homicides (3,254) that is the Sample size ***n*** (all four B/W race categories, Col. **B**).
** ***n/N*** **B-W** is the percentage of the Black offender vs. White victim homicide population (186) that is the row's B-W Sample size ***n*** (Col. **D**).
*** **Ratio, Col G:H** is not to be confused with the synonymous terms Sample to Population, Observed to Expected, and ***n/N***; instead, it simply compares Col. **G** to Col. **H** for each Sample.

CONCLUSION

The important factor in analyzing the B-W versus W-W clearance imbalance nationwide post-*Gregg* (1976) is that 50% of the B-W defendants have co-defendants also arrested at clearance of the homicide, while only 30% of W-W defendants do. In raw numbers, this was 12,665 too few (of 102,174 expected) white co-defendants, and 10,312 too many (of *only* 22,174 expected) black co-defendants.

This multiple defendant imbalance gets worse later, as shown in the completed post-clearance studies of Louisiana and Georgia outcomes. In the 39-year Louisiana study of almost half the state, B-W had 52% co-defendants to only 25% W-W co-defendants (also 25% combining W-W, B-B and W-B, termed 'not B-W'). In the seven year Georgia study, B-W had 73% co-defendants and W-W only 17% co-defendants, with the other race categories B-B at 10% and W-B at 13% co-defendants.

Baldus-modeled studies of race-of-victim bias only wash away these distinctions. Looking at white victim cases (WV) combines the two categories W-W and B-W, just as black victim cases (BV) combine W-B and B-B, black offender cases (BO) combine B-B and B-W, and white offender cases (WO) combine W-B and W-W.

This allows negative error and positive error, as well as large and small error in the same direction, to mix and cancel each other out, or to water down the larger error, rather than letting each of the four *uncombined* race categories be measured with absolute value distance from the population mean. Finding meaning in race discrepancies measured by combining distinct racial categories of suspect and victim is misguided.

Initial murder investigations ought to lead toward the one actor who did the deed, with rare exceptions. The size and consistency of the gap in the volume of multiple offenders cleared for arrest in white victim homicides, depending on the race of the defendant, is an initial tilt in what should be a level playing field, a tilt that only gets worse as these cases progress.[9]

[9] In the Appendix below the **KEY** to the row descriptions for, say, Alabama are 1) 'AL' the state abbreviation, followed by 2) 'mvmo' for multiple victims, multiple offenders, 3) 'mvso' for multiple victims, single offender, 4) 'svmo' for single victim, multiple offenders, and 5) 'svso' for single victim, single offender.

APPENDIX: COMPLETE TABLE OF UNITED STATES CLEARANCE STUDY VARIABLES

Column	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	P	S	T	U	V	W	X	
Variables	Black Offender				White Offender							Percent of Race Category in Total # ID				Percent of Race Category SumOC				Difference				WVIC diff
	Black Victim		White Victim		Black Victim		White Victim		--All Races--			B - B	B - W	W - B	W - W	B-B	B-W	W-B	W-W	B-B	B-W	W-B	W-W	B-W – W-W
State / Situation	# ID	SumOC	# ID	SumOC	# ID	SumOC	# ID	SumOC	Total # ID	Total SumOC	Total Both	B / J	D / J	F / J	H / J	C / K	E / K	G / K	I / K	M – Q	N – R	O – S	P – T	V – X
Alabama	**8174**	**626**	**831**	**136**	**274**	**25**	**3543**	**245**	**12822**	**1032**	**13854**	**63.7%**	**6.5%**	**2.1%**	**27.6%**	**60.7%**	**13.2%**	**2.4%**	**23.7%**	**3.1%**	**-6.7%**	**-0.3%**	**3.9%**	**-10.6%**
ALmvmo	42	64	13	18	2	2	33	44	90	128	218	46.7%	14.4%	2.2%	36.7%	50.0%	14.1%	1.6%	34.4%					
ALmvso	180	0	31	0	8	0	154	0	373	0	373	48.3%	8.3%	2.1%	41.3%	0.0%	0.0%	0.0%	0.0%					
ALsvmo	415	562	86	118	16	23	160	201	677	904	1581	61.3%	12.7%	2.4%	23.6%	62.2%	13.1%	2.5%	22.2%					
ALsvso	7537	0	701	0	248	0	3196	0	11682	0	11682	64.5%	6.0%	2.1%	27.4%	0.0%	0.0%	0.0%	0.0%					
Alaska	**106**	**21**	**73**	**15**	**53**	**15**	**634**	**81**	**866**	**132**	**998**	**12.2%**	**8.4%**	**6.1%**	**73.2%**	**15.9%**	**11.4%**	**11.4%**	**61.4%**	**-3.7%**	**-2.9%**	**-5.2%**	**11.8%**	**-14.8%**
AKmvmo	1	2	2	3	0	0	12	14	15	19	34	6.7%	13.3%	0.0%	80.0%	10.5%	15.8%	0.0%	73.7%					
AKmvso	12	0	3	0	12	0	99	0	126	0	126	9.5%	2.4%	9.5%	78.6%	0.0%	0.0%	0.0%	0.0%					
AKsvmo	10	17	9	12	10	15	47	67	76	111	187	13.2%	11.8%	13.2%	61.8%	15.3%	10.8%	13.5%	60.4%					
AKsvso	83	0	59	0	31	0	476	0	649	0	649	12.8%	9.1%	4.8%	73.3%	0.0%	0.0%	0.0%	0.0%					
Arizona	**1044**	**192**	**806**	**230**	**381**	**107**	**7953**	**1444**	**10184**	**1973**	**12157**	**10.3%**	**7.9%**	**3.7%**	**78.1%**	**9.7%**	**11.7%**	**5.4%**	**73.2%**	**0.5%**	**-3.7%**	**-1.7%**	**4.9%**	**-8.6%**
AZmvmo	18	26	14	26	7	10	211	299	250	361	611	7.2%	5.6%	2.8%	84.4%	7.2%	7.2%	2.8%	82.8%					
AZmvso	64	0	75	0	21	0	700	0	860	0	860	7.4%	8.7%	2.4%	81.4%	0.0%	0.0%	0.0%	0.0%					
AZsvmo	113	166	137	200	54	96	808	1135	1112	1597	2709	10.2%	12.3%	4.9%	72.7%	10.4%	12.5%	6.0%	71.1%					
AZsvso	849	0	580	0	299	0	6234	0	7962	0	7962	10.7%	7.3%	3.8%	78.3%	0.0%	0.0%	0.0%	0.0%					
Arkansas	**4013**	**1197**	**583**	**339**	**193**	**101**	**3107**	**603**	**7896**	**2240**	**10136**	**50.8%**	**7.4%**	**2.4%**	**39.3%**	**53.4%**	**15.1%**	**4.5%**	**26.9%**	**-2.6%**	**-7.8%**	**-2.1%**	**12.4%**	**-20.2%**
ARmvmo	148	291	37	81	13	30	57	105	255	507	762	58.0%	14.5%	5.1%	22.4%	57.4%	16.0%	5.9%	20.7%					
ARmvso	220	0	30	0	9	0	430	0	689	0	689	31.9%	4.4%	1.3%	62.4%	0.0%	0.0%	0.0%	0.0%					
ARsvmo	564	906	164	258	40	71	345	498	1113	1733	2846	50.7%	14.7%	3.6%	31.0%	52.3%	14.9%	4.1%	28.7%					
ARsvso	3081	0	352	0	131	0	2275	0	5839	0	5839	52.8%	6.0%	2.2%	39.0%	0.0%	0.0%	0.0%	0.0%					
California	**16487**	**4488**	**5322**	**2110**	**2580**	**949**	**42046**	**12590**	**66435**	**20137**	**86572**	**24.8%**	**8.0%**	**3.9%**	**63.3%**	**22.3%**	**10.5%**	**4.7%**	**62.5%**	**2.5%**	**-2.5%**	**-0.8%**	**0.8%**	**-3.2%**
CAmvmo	260	444	105	143	39	58	862	1350	1266	1995	3261	20.5%	8.3%	3.1%	68.1%	22.3%	7.2%	2.9%	67.7%					
CAmvso	726	0	263	0	113	0	3239	0	4341	0	4341	16.7%	6.1%	2.6%	74.6%	0.0%	0.0%	0.0%	0.0%					
CAsvmo	2840	4033	1359	1966	615	888	7555	11197	12369	18084	30453	23.0%	11.0%	5.0%	61.1%	22.3%	10.9%	4.9%	61.9%					
CAsvso	12661	0	3595	0	1813	0	30390	0	48459	0	48459	26.1%	7.4%	3.7%	62.7%	0.0%	0.0%	0.0%	0.0%					
Colorado	**1103**	**446**	**585**	**317**	**252**	**136**	**5000**	**1361**	**6940**	**2260**	**9200**	**15.9%**	**8.4%**	**3.6%**	**72.0%**	**19.7%**	**14.0%**	**6.0%**	**60.2%**	**-3.8%**	**-5.6%**	**-2.4%**	**11.8%**	**-17.4%**
COmvmo	51	118	46	74	16	28	144	223	257	443	700	19.8%	17.9%	6.2%	56.0%	26.6%	16.7%	6.3%	50.3%					
COmvso	64	0	23	0	9	0	485	0	581	0	581	11.0%	4.0%	1.5%	83.5%	0.0%	0.0%	0.0%	0.0%					
COsvmo	213	328	133	243	53	108	720	1138	1119	1817	2936	19.0%	11.9%	4.7%	64.3%	18.1%	13.4%	5.9%	62.6%					
COsvso	775	0	383	0	174	0	3651	0	4983	0	4983	15.6%	7.7%	3.5%	73.3%	0.0%	0.0%	0.0%	0.0%					
Connecticut	**1383**	**318**	**449**	**162**	**216**	**61**	**1826**	**321**	**3874**	**862**	**4736**	**35.7%**	**11.6%**	**5.6%**	**47.1%**	**36.9%**	**18.8%**	**7.1%**	**37.2%**	**-1.2%**	**-7.2%**	**-1.5%**	**9.9%**	**-17.1%**
CTmvmo	21	31	4	6	3	3	30	52	58	92	150	36.2%	6.9%	5.2%	51.7%	33.7%	6.5%	3.3%	56.5%					
CTmvso	73	0	42	0	11	0	217	0	343	0	343	21.3%	12.2%	3.2%	63.3%	0.0%	0.0%	0.0%	0.0%					
CTsvmo	192	287	98	156	39	58	181	269	510	770	1280	37.6%	19.2%	7.6%	35.5%	37.3%	20.3%	7.5%	34.9%					
CTsvso	1097	0	305	0	163	0	1398	0	2963	0	2963	37.0%	10.3%	5.5%	47.2%	0.0%	0.0%	0.0%	0.0%					
Delaware	**715**	**375**	**123**	**63**	**48**	**23**	**458**	**109**	**1344**	**570**	**1914**	**53.2%**	**9.2%**	**3.6%**	**34.1%**	**65.8%**	**11.1%**	**4.0%**	**19.1%**	**-12.6%**	**-1.9%**	**-0.5%**	**15.0%**	**-16.9%**
DEmvmo	23	31	3	7	2	8	14	16	42	62	104	54.8%	7.1%	4.8%	33.3%	50.0%	11.3%	12.9%	25.8%					
DEmvso	25	0	5	0	1	0	53	0	84	0	84	29.8%	6.0%	1.2%	63.1%	0.0%	0.0%	0.0%	0.0%					
DEsvmo	192	344	38	56	10	15	60	93	300	508	808	64.0%	12.7%	3.3%	20.0%	67.7%	11.0%	3.0%	18.3%					
DEsvso	475	0	77	0	35	0	331	0	918	0	918	51.7%	8.4%	3.8%	36.1%	0.0%	0.0%	0.0%	0.0%					
Dst of Columbia	**3149**	**323**	**158**	**18**	**51**	**24**	**117**	**17**	**3475**	**382**	**3857**	**90.6%**	**4.5%**	**1.5%**	**3.4%**	**84.6%**	**4.7%**	**6.3%**	**4.5%**	**6.1%**	**-0.2%**	**-4.8%**	**-1.1%**	**0.9%**
DCmvmo	30	41	0	0	0	0	2	6	32	47	79	93.8%	0.0%	0.0%	6.3%	87.2%	0.0%	0.0%	12.8%					
DCmvso	82	0	20	0	10	0	6	0	118	0	118	69.5%	16.9%	8.5%	5.1%	0.0%	0.0%	0.0%	0.0%					
DCsvmo	216	282	13	18	12	24	10	11	251	335	586	86.1%	5.2%	4.8%	4.0%	84.2%	5.4%	7.2%	3.3%					
DCsvso	2821	0	125	0	29	0	99	0	3074	0	3074	91.8%	4.1%	0.9%	3.2%	0.0%	0.0%	0.0%	0.0%					
Florida	**12867**	**2097**	**3154**	**1058**	**1184**	**297**	**14370**	**1815**	**31575**	**5267**	**36842**	**40.8%**	**10.0%**	**3.7%**	**45.5%**	**39.8%**	**20.1%**	**5.6%**	**34.5%**	**0.9%**	**-10.1%**	**-1.9%**	**11.1%**	**-21.1%**
FLmvmo	201	310	64	159	34	71	205	361	504	901	1405	39.9%	12.7%	6.7%	40.7%	34.4%	17.6%	7.9%	40.1%					
FLmvso	607	0	209	0	79	0	1449	0	2344	0	2344	25.9%	8.9%	3.4%	61.8%	0.0%	0.0%	0.0%	0.0%					
FLsvmo	1370	1782	677	899	169	226	1146	1454	3362	4361	7723	40.7%	20.1%	5.0%	34.1%	40.9%	20.6%	5.2%	33.3%					
FLsvso	10689	0	2204	0	902	0	11570	0	25365	0	25365	42.1%	8.7%	3.6%	45.6%	0.0%	0.0%	0.0%	0.0%					
Georgia	**13344**	**2639**	**1373**	**559**	**395**	**111**	**4956**	**714**	**20068**	**4023**	**24091**	**66.5%**	**6.8%**	**2.0%**	**24.7%**	**65.6%**	**13.9%**	**2.8%**	**17.7%**	**0.9%**	**-7.1%**	**-0.8%**	**6.9%**	**-14.0%**
GAmvmo	155	273	44	60	1	3	86	129	286	465	751	54.2%	15.4%	0.3%	30.1%	58.7%	12.9%	0.6%	27.7%					
GAmvso	728	0	108	0	10	0	409	0	1255	0	1255	58.0%	8.6%	0.8%	32.6%	0.0%	0.0%	0.0%	0.0%					
GAsvmo	1491	2366	286	499	74	108	390	585	2241	3558	5799	66.5%	12.8%	3.3%	17.4%	66.5%	14.0%	3.0%	16.4%					
GAsvso	10970	0	935	0	310	0	4071	0	16286	0	16286	67.4%	5.7%	1.9%	25.0%	0.0%	0.0%	0.0%	0.0%					
Hawaii	**15**	**0**	**32**	**3**	**14**	**0**	**321**	**31**	**382**	**34**	**416**	**3.9%**	**8.4%**	**3.7%**	**84.0%**	**0.0%**	**8.8%**	**0.0%**	**91.2%**	**3.9%**	**-0.4%**	**3.7%**	**-7.1%**	**6.7%**
HImvmo	0	0	0	0	0	0	6	6	6	6	12	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%					
HImvso	2	0	2	0	0	0	16	0	20	0	20	10.0%	10.0%	0.0%	80.0%	0.0%	0.0%	0.0%	0.0%					
HIsvmo	0	0	2	3	0	0	15	25	17	28	45	0.0%	11.8%	0.0%	88.2%	0.0%	10.7%	0.0%	89.3%					
HIsvso	13	0	28	0	14	0	284	0	339	0	339	3.8%	8.3%	4.1%	83.8%	0.0%	0.0%	0.0%	0.0%					
Idaho	**15**	**12**	**21**	**0**	**13**	**5**	**1295**	**372**	**1344**	**389**	**1733**	**1.1%**	**1.6%**	**1.0%**	**96.4%**	**3.1%**	**0.0%**	**1.3%**	**95.6%**	**-2.0%**	**1.6%**	**-0.3%**	**0.7%**	**0.8%**
IDmvmo	1	3	0	0	0	0	29	38	30	41	71	3.3%	0.0%	0.0%	96.7%	7.3%	0.0%	0.0%	92.7%					
IDmvso	4	0	8	0	1	0	162	0	175	0	175	2.3%	4.6%	0.6%	92.6%	0.0%	0.0%	0.0%	0.0%					
IDsvmo	4	9	0	0	4	5	186	334	194	348	542	2.1%	0.0%	2.1%	95.9%	2.6%	0.0%	1.4%	96.0%					
IDsvso	6	0	13	0	8	0	918	0	945	0	945	0.6%	1.4%	0.8%	97.1%	0.0%	0.0%	0.0%	0.0%					
Illinois	**13434**	**3854**	**1417**	**689**	**465**	**176**	**5873**	**1439**	**21189**	**6158**	**27347**	**63.4%**	**6.7%**	**2.2%**	**27.7%**	**62.6%**	**11.2%**	**2.9%**	**23.4%**	**0.8%**	**-4.5%**	**-0.7%**	**4.3%**	**-8.9%**
ILmvmo	281	459	62	102	9	12	104	166	456	739	1195	61.6%	13.6%	2.0%	22.8%	62.1%	13.8%	1.6%	22.5%					
ILmvso	578	0	123	0	24	0	518	0	1243	0	1243	46.5%	9.9%	1.9%	41.7%	0.0%	0.0%	0.0%	0.0%					
ILsvmo	2246	3395	356	587	100	164	808	1273	3510	5419	8929	64.0%	10.1%	2.8%	23.0%	62.6%	10.8%	3.0%	23.5%					
ILsvso	10329	0	876	0	332	0	4443	0	15980	0	15980	64.6%	5.5%	2.1%	27.8%	0.0%	0.0%	0.0%	0.0%					
Indiana	**4413**	**859**	**925**	**352**	**283**	**75**	**4242**	**672**	**9863**	**1958**	**11821**	**44.7%**	**9.4%**	**2.9%**	**43.0%**	**43.9%**	**18.0%**	**3.8%**	**34.3%**	**0.9%**	**-8.6%**	**-1.0%**	**8.7%**	**-17.3%**
INmvmo	118	193	45	73	13	26	98	127	274	419	693	43.1%	16.4%	4.7%	35.8%	46.1%	17.4%	6.2%	30.3%					
INmvso	227	0	90	0	11	0	547	0	875	0	875	25.9%	10.3%	1.3%	62.5%	0.0%	0.0%	0.0%	0.0%					
INsvmo	476	666	176	279	35	49	389	543	1076	1537	2613	44.2%	16.4%	3.3%	36.2%	43.3%	18.2%	3.2%	35.3%					
INsvso	3592	0	614	0	224	0	3208	0	7638	0	7638	47.0%	8.0%	2.9%	42.0%	0.0%	0.0%	0.0%	0.0%					
Iowa	**402**	**248**	**168**	**84**	**81**	**60**	**1408**	**237**	**2059**	**629**	**2688**	**19.5%**	**8.2%**	**3.9%**	**68.4%**	**39.4%**	**13.4%**	**9.5%**	**37.7%**	**-19.9%**	**-5.2%**	**-5.6%**	**30.7%**	**-35.9%**
IAmvmo	17	55	5	14	3	5	22	24	47	98	145	36.2%	10.6%	6.4%	46.8%	56.1%	14.3%	5.1%	24.5%					
IAmvso	15	0	11	0	4	0	200	0	230	0	230	6.5%	4.8%	1.7%	87.0%	0.0%	0.0%	0.0%	0.0%					
IAsvmo	101	193	40	70	27	55	147	213	315	531	846	32.1%	12.7%	8.6%	46.7%	36.3%	13.2%	10.4%	40.1%					
IAsvso	269	0	112	0	47	0	1039	0	1467	0	1467	18.3%	7.6%	3.2%	70.8%	0.0%	0.0%	0.0%	0.0%					
Kansas	**990**	**282**	**355**	**179**	**142**	**46**	**2019**	**526**	**3506**	**1033**	**4539**	**28.2%**	**10.1%**	**4.1%**	**57.6%**	**27.3%**	**17.3%**	**4.5%**	**50.9%**	**0.9%**	**-7.2%**	**-0.4%**	**6.7%**	**-13.9%**
KSmvmo	20	26	16	20	6	7	63	100	105	153	258	19.0%	15.2%	5.7%	60.0%	17.0%	13.1%	4.6%	65.4%					
KSmvso	57	0	24	0	8	0	216	0	305	0	305	18.7%	7.9%	2.6%	70.8%	0.0%	0.0%	0.0%	0.0%					
KSsvmo	157	256	87	159	30	39	271	426	545	880	1425	28.8%	16.0%	5.5%	49.7%	29.1%	18.1%	4.4%	48.4%					
KSsvso	756	0	228	0	98	0	1469	0	2551	0	2551	29.6%	8.9%	3.8%	57.6%	0.0%	0.0%	0.0%	0.0%					
Kentucky	**1898**	**424**	**512**	**233**	**213**	**64**	**5069**	**893**	**7692**	**1614**	**9306**	**24.7%**	**6.7%**	**2.8%**	**65.9%**	**26.3%**	**14.4%**	**4.0%**	**55.3%**	**-1.6%**	**-7.8%**	**-1.2%**	**10.6%**	**-18.4%**
KYmvmo	35	56	18	34	0	0	71	103	124	193	317	28.2%	14.5%	0.0%	57.3%	29.0%	17.6%	0.0%	53.4%					
KYmvso	91	0	29	0	13	0	453	0	586	0	586	15.5%	4.9%	2.2%	77.3%	0.0%	0.0%	0.0%	0.0%					
KYsvmo	226	368	118	199	40	64	530	790	914	1421	2335	24.7%	12.9%	4.4%	58.0%	25.9%	14.0%	4.5%	55.6%					
KYsvso	1546	0	347	0	160	0	4015	0	6068	0	6068	25.5%	5.7%	2.6%	66.2%	0.0%	0.0%	0.0%	0.0%					
Louisiana	**12085**	**2159**	**1297**	**533**	**350**	**109**	**3544**	**558**	**17276**	**3359**	**20635**	**70.0%**	**7.5%**	**2.0%**	**20.5%**	**64.3%**	**15.9%**	**3.2%**	**16.6%**	**5.7%**	**-8.4%**	**-1.2%**	**3.9%**	**-12.3%**
LAmvmo	282	402	55	85	12	26	48	83	397	596	993	71.0%	13.9%	3.0%	12.1%	67.4%	14.3%	4.4%	13.9%					
LAmvso	562	0	100	0	14	0	347	0	1023	0	1023	54.9%	9.8%	1.4%	33.9%	0.0%	0.0%	0.0%	0.0%					
LAsvmo	1183	1754	289	446	53	83	334	475	1859	2758	4617	63.6%	15.5%	2.9%	18.0%	63.6%	16.2%	3.0%	17.2%					
LAsvso	10058	0	853	0	271	0	2815	0	13997	0	13997	71.9%	6.1%	1.9%	20.1%	0.0%	0.0%	0.0%	0.0%					
Maine	**25**	**7**	**48**	**13**	**6**	**4**	**897**	**67**	**976**	**91**	**1067**	**2.6%**	**4.9%**	**0.6%**	**91.9%**	**7.7%**	**14.3%**	**4.4%**	**73.6%**	**-5.1%**	**-9.4%**	**-3.8%**	**18.3%**	**-27.6%**
MEmvmo	2	2	0	0	0	0	9	9	11	11	22	18.2%	0.0%	0.0%	81.8%	18.2%	0.0%	0.0%	81.8%					
MEmvso	1	0	13	0	1	0	139	0	154	0	154	0.6%	8.4%	0.6%	90.3%	0.0%	0.0%	0.0%	0.0%					
MEsvmo	3	5	8	13	1	4	45	58	57	80	137	5.3%	14.0%	1.8%	78.9%	6.3%	16.3%	5.0%	72.5%					
MEsvso	19	0	27	0	4	0	704	0	754	0	754	2.5%	3.6%	0.5%	93.4%	0.0%	0.0%	0.0%	0.0%					
Maryland	**8640**	**2266**	**963**	**415**	**270**	**110**	**2689**	**503**	**12562**	**3294**	**15856**	**68.8%**	**7.7%**	**2.1%**	**21.4%**	**68.8%**	**12.6%**	**3.3%**	**15.3%**	**0.0%**	**-4.9%**	**-1.2%**	**6.1%**	**-11.1%**
MDmvmo	168	238	25	30	8	15	34	73	235	356	591	71.5%	10.6%	3.4%	14.5%	66.9%	8.4%	4.2%	20.5%					
MDmvso	449	0	65	0	13	0	302	0	829	0	829	54.2%	7.8%	1.6%	36.4%	0.0%	0.0%	0.0%	0.0%					
MDsvmo	1528	2026	266	385	61	95	282	428	2137	2934	5071	71.5%	12.4%	2.9%	13.2%	69.1%	13.1%	3.2%	14.6%					
MDsvso	6495	0	607	0	188	0	2071	0	9361	0	9361	69.4%	6.5%	2.0%	22.1%	0.0%	0.0%	0.0%	0.0%					
Massachusetts	**1289**	**305**	**455**	**175**	**259**	**100**	**2684**	**590**	**4687**	**1170**	**5857**	**27.5%**	**9.7%**	**5.5%**	**57.3%**	**26.1%**	**15.0%**	**8.5%**	**50.4%**	**1.4%**	**-5.2%**	**-3.0%**	**6.8%**	**-12.1%**
MAmvmo	16	27	9	19	3	4	36	52	64	102	166	25.0%	14.1%	4.7%	56.3%	26.5%	18.6%	3.9%	51.0%					
MAmvso	56	0	34	0	15	0	284	0	389	0	389	14.4%	8.7%	3.9%	73.0%	0.0%	0.0%	0.0%	0.0%					
MAsvmo	178	278	95	156	58	96	352	538	683	1068	1751	26.1%	13.9%	8.5%	51.5%	26.0%	14.6%	9.0%	50.4%					
MAsvso	1039	0	317	0	183	0	2012	0	3551	0	3551	29.3%	8.9%	5.2%	56.7%	0.0%	0.0%	0.0%	0.0%					
Michigan	**15093**	**5715**	**1846**	**942**	**557**	**239**	**5904**	**1340**	**23400**	**8236**	**31636**	**64.5%**	**7.9%**	**2.4%**	**25.2%**	**69.4%**	**11.4%**	**2.9%**	**16.3%**	**-4.9%**	**-3.5%**	**-0.5%**	**9.0%**	**-12.5%**
MImvmo	417	706	90	140	19	23	147	246	673	1115	1788	62.0%	13.4%	2.8%	21.8%	63.3%	12.6%	2.1%	22.1%					
MImvso	727	0	111	0	25	0	662	0	1525	0	1525	47.7%	7.3%	1.6%	43.4%	0.0%	0.0%	0.0%	0.0%					
MIsvmo	3208	5009	491	802	131	216	677	1094	4507	7121	11628	71.2%	10.9%	2.9%	15.0%	70.3%	11.3%	3.0%	15.4%					
MIsvso	10741	0	1154	0	382	0	4418	0	16695	0	16695	64.3%	6.9%	2.3%	26.5%	0.0%	0.0%	0.0%	0.0%					
Minnesota	**1359**	**587**	**386**	**151**	**112**	**35**	**1797**	**248**	**3654**	**1021**	**4675**	**37.2%**	**10.6%**	**3.1%**	**49.2%**	**57.5%**	**14.8%**	**3.4%**	**24.3%**	**-20.3%**	**-4.2%**	**-0.4%**	**24.9%**	**-29.1%**
MNmvmo	41	64	17	27	5	5	21	28	84	124	208	48.8%	20.2%	6.0%	25.0%	51.6%	21.8%	4.0%	22.6%					
MNmvso	52	0	33	0	6	0	241	0	332	0	332	15.7%	9.9%	1.8%	72.6%	0.0%	0.0%	0.0%	0.0%					
MNsvmo	311	523	73	124	21	30	141	220	546	897	1443	57.0%	13.4%	3.8%	25.8%	58.3%	13.8%	3.3%	24.5%					
MNsvso	955	0	263	0	80	0	1394	0	2692	0	2692	35.5%	9.8%	3.0%	51.8%	0.0%	0.0%	0.0%	0.0%					
Mississippi	**5098**	**983**	**444**	**179**	**143**	**30**	**1323**	**193**	**7008**	**1385**	**8393**	**72.7%**	**6.3%**	**2.0%**	**18.9%**	**71.0%**	**12.9%**	**2.2%**	**13.9%**	**1.8%**	**-6.6%**	**-0.1%**	**4.9%**	**-11.5%**
MImvmo	95	184	14	23	5	5	23	34	137	246	383	69.3%	10.2%	3.6%	16.8%	74.8%	9.3%	2.0%	13.8%					
MImvso	217	0	44	0	7	0	119	0	387	0	387	56.1%	11.4%	1.8%	30.7%	0.0%	0.0%	0.0%	0.0%					
MIsvmo	496	799	98	156	14	25	121	159	729	1139	1868	68.0%	13.4%	1.9%	16.6%	70.1%	13.7%	2.2%	14.0%					
MIsvso	4290	0	288	0	117	0	1060	0	5755	0	5755	74.5%	5.0%	2.0%	18.4%	0.0%	0.0%	0.0%	0.0%					

Column	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	P	S	T	U	V	W	X	
Variables	Black Offender				White Offender							Percent of Race Category in Total # ID				Percent of Race Category SumOC				Difference				WVIC diff
	Black Victim		White Victim		Black Victim		White Victim		--All Races--			B - B	B - W	W - B	W - W	B-B	B-W	W-B	W-W	B-B	B-W	W-B	W-W	B-W – W-W
State / Situation	# ID	SumOC	# ID	SumOC	# ID	SumOC	# ID	SumOC	Total # ID	Total SumOC	Total Both	B / J	D / J	F / J	H / J	C / K	E / K	G / K	I / K	M – Q	N – R	O – S	P – T	V – X
Missouri	**6885**	**1967**	**1015**	**399**	**368**	**133**	**4745**	**882**	**13013**	**3381**	**16394**	**52.9%**	**7.8%**	**2.8%**	**36.5%**	**58.2%**	**11.8%**	**3.9%**	**26.1%**	**-5.3%**	**-4.0%**	**-1.1%**	**10.4%**	**-14.4%**
MOmvmo	208	328	34	50	9	11	106	150	357	539	896	58.3%	9.5%	2.5%	29.7%	60.9%	9.3%	2.0%	27.8%					
MOmvso	413	0	90	0	20	0	458	0	981	0	981	42.1%	9.2%	2.0%	46.7%	0.0%	0.0%	0.0%	0.0%					
MOsvmo	1130	1639	241	349	76	122	504	732	1951	2842	4793	57.9%	12.4%	3.9%	25.8%	57.7%	12.3%	4.3%	25.8%					
MOsvso	5134	0	650	0	263	0	3677	0	9724	0	9724	52.8%	6.7%	2.7%	37.8%	0.0%	0.0%	0.0%	0.0%					
Montana	**10**	**2**	**11**	**5**	**10**	**1**	**665**	**141**	**696**	**149**	**845**	**1.4%**	**1.6%**	**1.4%**	**95.5%**	**1.3%**	**3.4%**	**0.7%**	**94.6%**	**0.1%**	**-1.8%**	**0.8%**	**0.9%**	**-2.7%**
MTmvmo	0	0	0	0	0	0	19	33	19	33	52	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%					
MTmvso	2	0	1	0	4	0	105	0	112	0	112	1.8%	0.9%	3.6%	93.8%	0.0%	0.0%	0.0%	0.0%					
MTsvmo	2	2	2	5	1	1	73	108	78	116	194	2.6%	2.6%	1.3%	93.6%	1.7%	4.3%	0.9%	93.1%					
MTsvso	6	0	8	0	5	0	468	0	487	0	487	1.2%	1.6%	1.0%	96.1%	0.0%	0.0%	0.0%	0.0%					
Nebraska	**336**	**96**	**106**	**48**	**47**	**17**	**884**	**202**	**1373**	**363**	**1736**	**24.5%**	**7.7%**	**3.4%**	**64.4%**	**26.4%**	**13.2%**	**4.7%**	**55.6%**	**-2.0%**	**-5.5%**	**-1.3%**	**8.7%**	**-14.2%**
NEmvmo	2	2	5	7	1	1	18	34	26	44	70	7.7%	19.2%	3.8%	69.2%	4.5%	15.9%	2.3%	77.3%					
NEmvso	18	0	4	0	4	0	108	0	134	0	134	13.4%	3.0%	3.0%	80.6%	0.0%	0.0%	0.0%	0.0%					
NEsvmo	47	94	20	41	10	16	106	168	183	319	502	25.7%	10.9%	5.5%	57.9%	29.5%	12.9%	5.0%	52.7%					
NEsvso	269	0	77	0	32	0	652	0	1030	0	1030	26.1%	7.5%	3.1%	63.3%	0.0%	0.0%	0.0%	0.0%					
Nevada	**1100**	**222**	**465**	**178**	**234**	**64**	**2910**	**535**	**4709**	**999**	**5708**	**23.4%**	**9.9%**	**5.0%**	**61.8%**	**22.2%**	**17.8%**	**6.4%**	**53.6%**	**1.1%**	**-7.9%**	**-1.4%**	**8.2%**	**-16.2%**
NVmvmo	16	24	15	22	4	5	45	67	80	118	198	20.0%	18.8%	5.0%	56.3%	20.3%	18.6%	4.2%	56.8%					
NVmvso	67	0	37	0	10	0	288	0	402	0	402	16.7%	9.2%	2.5%	71.6%	0.0%	0.0%	0.0%	0.0%					
NVsvmo	135	198	95	156	40	59	333	468	603	881	1484	22.4%	15.8%	6.6%	55.2%	22.5%	17.7%	6.7%	53.1%					
NVsvso	882	0	318	0	180	0	2244	0	3624	0	3624	24.3%	8.8%	5.0%	61.9%	0.0%	0.0%	0.0%	0.0%					
New Hampshire	**8**	**1**	**17**	**2**	**12**	**3**	**664**	**77**	**701**	**83**	**784**	**1.1%**	**2.4%**	**1.7%**	**94.7%**	**1.2%**	**2.4%**	**3.6%**	**92.8%**	**-0.1%**	**0.0%**	**-1.9%**	**2.0%**	**-1.9%**
NHmvmo	0	0	0	0	0	0	6	6	6	6	12	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%					
NHmvso	2	0	2	0	2	0	101	0	107	0	107	1.9%	1.9%	1.9%	94.4%	0.0%	0.0%	0.0%	0.0%					
NHsvmo	1	1	2	2	2	3	42	71	47	77	124	2.1%	4.3%	4.3%	89.4%	1.3%	2.6%	3.9%	92.2%					
NHsvso	5	0	13	0	8	0	515	0	541	0	541	0.9%	2.4%	1.5%	95.2%	0.0%	0.0%	0.0%	0.0%					
New Jersey	**5506**	**1277**	**1066**	**498**	**405**	**128**	**3994**	**653**	**10971**	**2556**	**13527**	**50.2%**	**9.7%**	**3.7%**	**36.4%**	**50.0%**	**19.5%**	**5.0%**	**25.5%**	**0.2%**	**-9.8%**	**-1.3%**	**10.9%**	**-20.6%**
NJmvmo	62	100	38	63	15	19	35	54	150	236	386	41.3%	25.3%	10.0%	23.3%	42.4%	26.7%	8.1%	22.9%					
NJmvso	241	0	45	0	0	0	421	0	715	0	715	33.7%	6.3%	0.0%	58.9%	0.0%	0.0%	0.0%	0.0%					
NJsvmo	751	1169	264	435	65	109	393	593	1473	2306	3779	51.0%	17.9%	4.4%	26.7%	50.7%	18.9%	4.7%	25.7%					
NJsvso	4452	0	719	0	317	0	3145	0	8633	0	8633	51.6%	8.3%	3.7%	36.4%	0.0%	0.0%	0.0%	0.0%					
New Mexico	**184**	**25**	**184**	**46**	**106**	**43**	**3156**	**663**	**3630**	**777**	**4407**	**5.1%**	**5.1%**	**2.9%**	**86.9%**	**3.2%**	**5.9%**	**5.5%**	**85.3%**	**1.9%**	**-0.9%**	**-2.6%**	**1.6%**	**-2.5%**
NMmvmo	0	0	2	6	0	0	53	93	55	99	154	0.0%	3.6%	0.0%	96.4%	0.0%	6.1%	0.0%	93.9%					
NMmvso	6	0	15	0	6	0	330	0	357	0	357	1.7%	4.2%	1.7%	92.4%	0.0%	0.0%	0.0%	0.0%					
NMsvmo	21	25	21	40	23	43	405	570	470	678	1148	4.5%	4.5%	4.9%	86.2%	3.7%	5.9%	6.3%	84.1%					
NMsvso	157	0	146	0	77	0	2368	0	2748	0	2748	5.7%	5.3%	2.8%	86.2%	0.0%	0.0%	0.0%	0.0%					
New York	**14576**	**3650**	**3537**	**1540**	**1957**	**659**	**11678**	**2813**	**31748**	**8662**	**40410**	**45.9%**	**11.1%**	**6.2%**	**36.8%**	**42.1%**	**17.8%**	**7.6%**	**32.5%**	**3.8%**	**-6.6%**	**-1.4%**	**4.3%**	**-10.9%**
NYmvmo	223	383	87	156	33	50	233	389	576	978	1554	38.7%	15.1%	5.7%	40.5%	39.2%	16.0%	5.1%	39.8%					
NYmvso	571	0	174	0	99	0	853	0	1697	0	1697	33.6%	10.3%	5.8%	50.3%	0.0%	0.0%	0.0%	0.0%					
NYsvmo	2374	3244	948	1379	430	609	1724	2416	5476	7648	13124	43.4%	17.3%	7.9%	31.5%	42.4%	18.0%	8.0%	31.6%					
NYsvso	11408	0	2328	0	1395	0	8868	0	23999	0	23999	47.5%	9.7%	5.8%	37.0%	0.0%	0.0%	0.0%	0.0%					
North Carolina	**11513**	**3369**	**1767**	**995**	**609**	**274**	**7148**	**1410**	**21037**	**6048**	**27085**	**54.7%**	**8.4%**	**2.9%**	**34.0%**	**55.7%**	**16.5%**	**4.5%**	**23.3%**	**-1.0%**	**-8.1%**	**-1.6%**	**10.7%**	**-18.7%**
NCmvmo	281	436	102	163	18	34	163	224	564	857	1421	49.8%	18.1%	3.2%	28.9%	50.9%	19.0%	4.0%	26.1%					
NCmvso	682	0	134	0	41	0	656	0	1513	0	1513	45.1%	8.9%	2.7%	43.4%	0.0%	0.0%	0.0%	0.0%					
NCsvmo	1777	2921	483	832	147	240	792	1186	3199	5179	8378	55.5%	15.1%	4.6%	24.8%	56.4%	16.1%	4.6%	22.9%					
NCsvso	8773	0	1048	0	403	0	5537	0	15761	0	15761	55.7%	6.6%	2.6%	35.1%	0.0%	0.0%	0.0%	0.0%					
North Dakota	**25**	**16**	**23**	**14**	**9**	**9**	**314**	**78**	**371**	**117**	**488**	**6.7%**	**6.2%**	**2.4%**	**84.6%**	**13.7%**	**12.0%**	**7.7%**	**66.7%**	**-6.9%**	**-5.8%**	**-5.3%**	**18.0%**	**-23.7%**
NDmvmo	1	1	1	1	0	0	10	16	12	18	30	8.3%	8.3%	0.0%	83.3%	5.6%	5.6%	0.0%	88.9%					
NDmvso	4	0	3	0	1	0	43	0	51	0	51	7.8%	5.9%	2.0%	84.3%	0.0%	0.0%	0.0%	0.0%					
NDsvmo	8	15	6	13	4	9	34	62	52	99	151	15.4%	11.5%	7.7%	65.4%	15.2%	13.1%	9.1%	62.6%					
NDsvso	12	0	13	0	4	0	227	0	256	0	256	4.7%	5.1%	1.6%	88.7%	0.0%	0.0%	0.0%	0.0%					
Ohio	**9722**	**2481**	**1640**	**614**	**554**	**184**	**6436**	**1153**	**18352**	**4432**	**22784**	**53.0%**	**8.9%**	**3.0%**	**35.1%**	**56.0%**	**13.9%**	**4.2%**	**26.0%**	**-3.0%**	**-4.9%**	**-1.1%**	**9.1%**	**-14.0%**
OHmvmo	233	419	37	57	30	50	88	140	388	666	1054	60.1%	9.5%	7.7%	22.7%	62.9%	8.6%	7.5%	21.0%					
OHmvso	519	0	109	0	39	0	659	0	1326	0	1326	39.1%	8.2%	2.9%	49.7%	0.0%	0.0%	0.0%	0.0%					
OHsvmo	1413	2062	371	557	86	134	694	1013	2564	3766	6330	55.1%	14.5%	3.4%	27.1%	54.8%	14.8%	3.6%	26.9%					
OHsvso	7557	0	1123	0	399	0	4995	0	14074	0	14074	53.7%	8.0%	2.8%	35.5%	0.0%	0.0%	0.0%	0.0%					
Oklahoma	**2262**	**670**	**632**	**340**	**301**	**177**	**4868**	**1231**	**8063**	**2418**	**10481**	**28.1%**	**7.8%**	**3.7%**	**60.4%**	**27.7%**	**14.1%**	**7.3%**	**50.9%**	**0.3%**	**-6.2%**	**-3.6%**	**9.5%**	**-15.7%**
OKmvmo	33	48	32	49	41	80	237	423	343	600	943	9.6%	9.3%	12.0%	69.1%	8.0%	8.2%	13.3%	70.5%					
OKmvso	119	0	37	0	13	0	464	0	633	0	633	18.8%	5.8%	2.1%	73.3%	0.0%	0.0%	0.0%	0.0%					
OKsvmo	388	622	176	291	58	97	575	808	1197	1818	3015	32.4%	14.7%	4.8%	48.0%	34.2%	16.0%	5.3%	44.4%					
OKsvso	1722	0	387	0	189	0	3592	0	5890	0	5890	29.2%	6.6%	3.2%	61.0%	0.0%	0.0%	0.0%	0.0%					
Oregon	**360**	**87**	**192**	**72**	**96**	**40**	**3182**	**654**	**3830**	**853**	**4683**	**9.4%**	**5.0%**	**2.5%**	**83.1%**	**10.2%**	**8.4%**	**4.7%**	**76.7%**	**-0.8%**	**-3.4%**	**-2.2%**	**6.4%**	**-9.8%**
ORmvmo	4	12	4	4	3	4	63	87	74	107	181	5.4%	5.4%	4.1%	85.1%	11.2%	3.7%	3.7%	81.3%					
ORmvso	10	0	8	0	8	0	363	0	389	0	389	2.6%	2.1%	2.1%	93.3%	0.0%	0.0%	0.0%	0.0%					
ORsvmo	48	75	39	68	22	36	382	567	491	746	1237	9.8%	7.9%	4.5%	77.8%	10.1%	9.1%	4.8%	76.0%					
ORsvso	298	0	141	0	63	0	2374	0	2876	0	2876	10.4%	4.9%	2.2%	82.5%	0.0%	0.0%	0.0%	0.0%					
Pennsylvania	**11851**	**2393**	**1807**	**639**	**704**	**203**	**7780**	**1132**	**22142**	**4367**	**26509**	**53.5%**	**8.2%**	**3.2%**	**35.1%**	**54.8%**	**14.6%**	**4.6%**	**25.9%**	**-1.3%**	**-6.5%**	**-1.5%**	**9.2%**	**-15.7%**
PAmvmo	203	296	61	88	28	35	131	165	423	584	1007	48.0%	14.4%	6.6%	31.0%	50.7%	15.1%	6.0%	28.3%					
PAmvso	585	0	117	0	38	0	946	0	1686	0	1686	34.7%	6.9%	2.3%	56.1%	0.0%	0.0%	0.0%	0.0%					
PAsvmo	1552	2076	376	548	113	164	696	953	2737	3741	6478	56.7%	13.7%	4.1%	25.4%	55.5%	14.6%	4.4%	25.5%					
PAsvso	9511	0	1253	0	525	0	6007	0	17296	0	17296	55.0%	7.2%	3.0%	34.7%	0.0%	0.0%	0.0%	0.0%					
Rhode Island	**192**	**45**	**110**	**39**	**57**	**17**	**611**	**117**	**970**	**218**	**1188**	**19.8%**	**11.3%**	**5.9%**	**63.0%**	**20.6%**	**17.9%**	**7.8%**	**53.7%**	**-0.8%**	**-6.5%**	**-1.9%**	**9.3%**	**-15.9%**
RImvmo	3	3	3	5	0	0	10	10	16	18	34	18.8%	18.8%	0.0%	62.5%	16.7%	27.8%	0.0%	55.6%					
RImvso	15	0	7	0	3	0	50	0	75	0	75	20.0%	9.3%	4.0%	66.7%	0.0%	0.0%	0.0%	0.0%					
RIsvmo	26	42	24	34	9	17	76	107	135	200	335	19.3%	17.8%	6.7%	56.3%	21.0%	17.0%	8.5%	53.5%					
RIsvso	148	0	76	0	45	0	475	0	744	0	744	19.9%	10.2%	6.0%	63.8%	0.0%	0.0%	0.0%	0.0%					
South Carolina	**8490**	**4366**	**1248**	**1060**	**396**	**232**	**4429**	**1239**	**14563**	**6897**	**21460**	**58.3%**	**8.6%**	**2.7%**	**30.4%**	**63.3%**	**15.4%**	**3.4%**	**18.0%**	**-5.0%**	**-6.8%**	**-0.6%**	**12.4%**	**-19.2%**
SCmvmo	323	647	70	137	21	31	113	166	527	981	1508	61.3%	13.3%	4.0%	21.4%	66.0%	14.0%	3.2%	16.9%					
SCmvso	431	0	81	0	37	0	365	0	914	0	914	47.2%	8.9%	4.0%	39.9%	0.0%	0.0%	0.0%	0.0%					
SCsvmo	1948	3710	474	923	113	201	676	1073	3211	5907	9118	60.7%	14.8%	3.5%	21.1%	62.8%	15.6%	3.4%	18.2%					
SCsvso	5788	0	623	0	225	0	3275	0	9911	0	9911	58.4%	6.3%	2.3%	33.0%	0.0%	0.0%	0.0%	0.0%					
South Dakota	**20**	**5**	**20**	**6**	**1**	**0**	**319**	**39**	**360**	**50**	**410**	**5.6%**	**5.6%**	**0.3%**	**88.6%**	**10.0%**	**12.0%**	**0.0%**	**78.0%**	**-4.4%**	**-6.4%**	**0.3%**	**10.6%**	**-17.1%**
SDmvmo	0	0	0	0	0	0	1	2	1	2	3	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%					
SDmvso	2	0	3	0	0	0	41	0	46	0	46	4.3%	6.5%	0.0%	89.1%	0.0%	0.0%	0.0%	0.0%					
SDsvmo	4	5	3	6	0	0	26	37	33	48	81	12.1%	9.1%	0.0%	78.8%	10.4%	12.5%	0.0%	77.1%					
SDsvso	14	0	14	0	1	0	251	0	280	0	280	5.0%	5.0%	0.4%	89.6%	0.0%	0.0%	0.0%	0.0%					
Tennessee	**8649**	**2482**	**1334**	**713**	**442**	**165**	**5863**	**1115**	**16288**	**4475**	**20763**	**53.1%**	**8.2%**	**2.7%**	**36.0%**	**55.5%**	**15.9%**	**3.7%**	**24.9%**	**-2.4%**	**-7.7%**	**-1.0%**	**11.1%**	**-18.8%**
TNmvmo	169	316	48	78	5	8	142	231	364	633	997	46.4%	13.2%	1.4%	39.0%	49.9%	12.3%	1.3%	36.5%					
TNmvso	354	0	66	0	23	0	513	0	956	0	956	37.0%	6.9%	2.4%	53.7%	0.0%	0.0%	0.0%	0.0%					
TNsvmo	1426	2166	386	635	96	157	647	884	2555	3842	6397	55.8%	15.1%	3.8%	25.3%	56.4%	16.5%	4.1%	23.0%					
TNsvso	6700	0	834	0	318	0	4561	0	12413	0	12413	54.0%	6.7%	2.6%	36.7%	0.0%	0.0%	0.0%	0.0%					
Texas	**18944**	**4434**	**4719**	**2298**	**2022**	**812**	**33798**	**8404**	**59483**	**15948**	**75431**	**31.8%**	**7.9%**	**3.4%**	**56.8%**	**27.8%**	**14.4%**	**5.1%**	**52.7%**	**4.0%**	**-6.5%**	**-1.7%**	**4.1%**	**-10.6%**
TXmvmo	317	541	175	255	34	60	725	1202	1251	2058	3309	25.3%	14.0%	2.7%	58.0%	26.3%	12.4%	2.9%	58.4%					
TXmvso	799	0	301	0	104	0	2533	0	3737	0	3737	21.4%	8.1%	2.8%	67.8%	0.0%	0.0%	0.0%	0.0%					
TXsvmo	2595	3893	1277	2043	443	752	4710	7202	9025	13890	22915	28.8%	14.1%	4.9%	52.2%	28.0%	14.7%	5.4%	51.9%					
TXsvso	15233	0	2966	0	1441	0	25830	0	45470	0	45470	33.5%	6.5%	3.2%	56.8%	0.0%	0.0%	0.0%	0.0%					
Utah	**53**	**20**	**106**	**52**	**44**	**51**	**1729**	**524**	**1932**	**647**	**2579**	**2.7%**	**5.5%**	**2.3%**	**89.5%**	**3.1%**	**8.0%**	**7.9%**	**81.0%**	**-0.3%**	**-2.6%**	**-5.6%**	**8.5%**	**-11.1%**
UTmvmo	2	6	3	7	3	21	47	95	55	129	184	3.6%	5.5%	5.5%	85.5%	4.7%	5.4%	16.3%	73.6%					
UTmvso	4	0	1	0	2	0	216	0	223	0	223	1.8%	0.4%	0.9%	96.9%	0.0%	0.0%	0.0%	0.0%					
UTsvmo	7	14	27	45	17	30	252	429	303	518	821	2.3%	8.9%	5.6%	83.2%	2.7%	8.7%	5.8%	82.8%					
UTsvso	40	0	75	0	22	0	1214	0	1351	0	1351	3.0%	5.6%	1.6%	89.9%	0.0%	0.0%	0.0%	0.0%					
Vermont	**21**	**10**	**24**	**3**	**10**	**7**	**395**	**53**	**450**	**73**	**523**	**4.7%**	**5.3%**	**2.2%**	**87.8%**	**13.7%**	**4.1%**	**9.6%**	**72.6%**	**-9.0%**	**1.2%**	**-7.4%**	**15.2%**	**-14.0%**
VTmvmo	7	7	2	2	0	0	16	18	25	27	52	28.0%	8.0%	0.0%	64.0%	25.9%	7.4%	0.0%	66.7%					
VTmvso	0	0	0	0	1	0	60	0	61	0	61	0.0%	0.0%	1.6%	98.4%	0.0%	0.0%	0.0%	0.0%					
VTsvmo	2	3	1	1	4	7	24	35	31	46	77	6.5%	3.2%	12.9%	77.4%	6.5%	2.2%	15.2%	76.1%					
VTsvso	12	0	21	0	5	0	295	0	333	0	333	3.6%	6.3%	1.5%	88.6%	0.0%	0.0%	0.0%	0.0%					
Virginia	**8740**	**2985**	**1320**	**691**	**475**	**188**	**5611**	**1160**	**16146**	**5024**	**21170**	**54.1%**	**8.2%**	**2.9%**	**34.8%**	**59.4%**	**13.8%**	**3.7%**	**23.1%**	**-5.3%**	**-5.6%**	**-0.8%**	**11.7%**	**-17.2%**
VAmvmo	191	382	62	114	14	20	103	154	370	670	1040	51.6%	16.8%	3.8%	27.8%	57.0%	17.0%	3.0%	23.0%					
VAmvso	473	0	121	0	32	0	631	0	1257	0	1257	37.6%	9.6%	2.5%	50.2%	0.0%	0.0%	0.0%	0.0%					
VAsvmo	1560	2603	331	577	103	168	620	1006	2614	4354	6968	59.7%	12.7%	3.9%	23.7%	59.8%	13.3%	3.9%	23.1%					
VAsvso	6516	0	806	0	326	0	4257	0	11905	0	11905	54.7%	6.8%	2.7%	35.8%	0.0%	0.0%	0.0%	0.0%					
Washington	**1027**	**399**	**538**	**332**	**219**	**107**	**4919**	**1338**	**6703**	**2176**	**8879**	**15.3%**	**8.0%**	**3.3%**	**73.4%**	**18.3%**	**15.3%**	**4.9%**	**61.5%**	**-3.0%**	**-7.2%**	**-1.7%**	**11.9%**	**-19.1%**
WAmvmo	36	62	20	92	5	14	136	184	197	352	549	18.3%	10.2%	2.5%	69.0%	17.6%	26.1%	4.0%	52.3%					
WAmvso	67	0	48	0	7	0	526	0	648	0	648	10.3%	7.4%	1.1%	81.2%	0.0%	0.0%	0.0%	0.0%					
WAsvmo	180	337	141	240	61	93	687	1154	1069	1824	2893	16.8%	13.2%	5.7%	64.3%	18.5%	13.2%	5.1%	63.3%					
WAsvso	744	0	329	0	146	0	3570	0	4789	0	4789	15.5%	6.9%	3.0%	74.5%	0.0%	0.0%	0.0%	0.0%					
West Virginia	**428**	**101**	**176**	**78**	**68**	**38**	**2929**	**545**	**3601**	**762**	**4363**	**11.9%**	**4.9%**	**1.9%**	**81.3%**	**13.3%**	**10.2%**	**5.0%**	**71.5%**	**-1.4%**	**-5.3%**	**-3.1%**	**9.8%**	**-15.2%**
WVmvmo	10	16	2	2	7	14	50	80	69	112	181	14.5%	2.9%	10.1%	72.5%	14.3%	1.8%	12.5%	71.4%					
WVmvso	22	0	29	0	4	0	305	0	360	0	360	6.1%	8.1%	1.1%	84.7%	0.0%	0.0%	0.0%	0.0%					
WVsvmo	60	85	45	76	18	24	322	465	445	650	1095	13.5%	10.1%	4.0%	72.4%	13.1%	11.7%	3.7%	71.5%					
WVsvso	336	0	100	0	39	0	2252	0	2727	0	2727	12.3%	3.7%	1.4%	82.6%	0.0%	0.0%	0.0%	0.0%					
Wisconsin	**3078**	**1634**	**556**	**348**	**174**	**90**	**2681**	**551**	**6489**	**2623**	**9112**	**47.4%**	**8.6%**	**2.7%**	**41.3%**	**62.3%**	**13.3%**	**3.4%**	**21.0%**	**-14.9%**	**-4.7%**	**-0.7%**	**20.3%**	**-25.0%**
WImvmo	54	97	10	22	13	26	29	54	106	199	305	50.9%	9.4%	12.3%	27.4%	48.7%	11.1%	13.1%	27.1%					
WImvso	102	0	48	0	6	0	369	0	525	0	525	19.4%	9.1%	1.1%	70.3%	0.0%	0.0%	0.0%	0.0%					
WIsvmo	864	1537	172	326	37	64	291	497	1364	2424	3788	63.3%	12.6%	2.7%	21.3%	63.4%	13.4%	2.6%	20.5%					
WIsvso	2058	0	326	0	118	0	1992	0	4494	0	4494	45.8%	7.3%	2.6%	44.3%	0.0%	0.0%	0.0%	0.0%					
Wyoming	**11**	**2**	**12**	**7**	**14**	**2**	**614**	**101**	**651**	**112**	**763**	**1.7%**	**1.8%**	**2.2%**	**94.3%**	**1.8%**	**6.3%**	**1.8%**	**90.2%**	**-0.1%**	**-4.4%**	**0.4%**	**4.1%**	**-8.5%**
WYmvmo	1	1	1	1	0	0	10	17	12	19	31	8.3%	8.3%	0.0%	83.3%	5.3%	5.3%	0.0%	89.5%					
WYmvso	0	0	2	0	3	0	84	0	89	0	89	0.0%	2.2%	3.4%	94.4%	0.0%	0.0%	0.0%	0.0%					
WYsvmo	1	1	3	6	2	2	55	84	61	93	154	1.6%	4.9%	3.3%	90.2%	1.1%	6.5%	2.2%	90.3%					
WYsvso	9	0	6	0	9	0	465	0	489	0	489	1.8%	1.2%	1.8%	95.1%	0.0%	0.0%	0.0%	0.0%					
Grand Total	**241132**	**63162**	**44951**	**19972**	**17869**	**6546**	**245397**	**53779**	**549349**	**143255**	**692604**	**43.9%**	**8.2%**	**3.3%**	**44.7%**	**44.1%**	**13.9%**	**4.6%**	**37.5%**	**-0.2%**	**-5.8%**	**-1.3%**	**7.1%**	**-12.9%**