

Death Penalty subdivision analysis

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/***** deathpl.sas *****/
options linesize=79 pagesize=35 noovp formdlim='_';

title 'Race & Death Penalty: Am. Soc. Review 1981, 46, 918-927';
proc format;
    value ynfmt 1 = 'Yes' 2 = 'No';
    value rfmt 1= 'White' 2= 'Black';

data deathrow;
    infile 'deathpen.dat';
    input defrace victrace deathp;
    label defrace = 'Race of Defendant'
          victrace = 'Race of Victim'
          deathp = 'Death Penalty';
    format defrace victrace rfmt.;
    format deathp ynfmt.;

proc freq;
    tables defrace*victrace / nopercnt chisq;
    tables (defrace victrace) * deathp / nopercnt nocol chisq;
    tables victrace * defrace * deathp / nopercnt nocol chisq;
    tables defrace * victrace * deathp / nopercnt nocol chisq;

proc freq;
    tables deathp*victrace*defrace / nopercnt norow nocol list;

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23:00 Tuesday, February 3, 2004

TABLE OF DEFRACE BY VICTRACE

DEFRACE(Race of Defendant)		VICTRACE(Race of Victim)		
Frequency	Row Pct	White	Black	Total
Col Pct				
White		151	9	160
		94.38	5.63	
		70.56	8.04	
Black		63	103	166
		37.95	62.05	
		29.44	91.96	
Total		214	112	326

TABLE OF DEFRACE BY DEATHP

DEFRACE (Race of Defendant)		DEATHP (Death Penalty)		Total
Frequency	Row Pct	Yes	No	
White		19	141	160
		11.88	88.13	
Black		17	149	166
		10.24	89.76	
Total		36	290	326

STATISTICS FOR TABLE OF DEFRACE BY DEATHP

Statistic	DF	Value	Prob
Chi-Square	1	0.221	0.638
Likelihood Ratio Chi-Square	1	0.221	0.638
Continuity Adj. Chi-Square	1	0.086	0.769
Mantel-Haenszel Chi-Square	1	0.221	0.638
Fisher's Exact Test (Left)			0.741
(Right)			0.384
(2-Tail)			0.725
Phi Coefficient		0.026	
Contingency Coefficient		0.026	
Cramer's V		0.026	

Sample Size = 326

TABLE OF VICTRACE BY DEATHP

VICTRACE (Race of Victim)		DEATHP (Death Penalty)		Total
Frequency	Row Pct	Yes	No	
White		30 14.02	184 85.98	214
Black		6 5.36	106 94.64	112
Total		36	290	326

STATISTICS FOR TABLE OF VICTRACE BY DEATHP

Statistic	DF	Value	Prob
Chi-Square	1	5.615	0.018
Likelihood Ratio Chi-Square	1	6.250	0.012
Continuity Adj. Chi-Square	1	4.768	0.029
Mantel-Haenszel Chi-Square	1	5.598	0.018
Fisher's Exact Test (Left)			0.996
(Right)			0.012
(2-Tail)			0.024
Phi Coefficient		0.131	
Contingency Coefficient		0.130	
Cramer's V		0.131	

Sample Size = 326

TABLE 1 OF DEFRACE BY DEATHP
 CONTROLLING FOR VICTRACE=White

DEFRACE (Race of Defendant)		DEATHP (Death Penalty)		Total
Frequency	Row Pct	Yes	No	
White		19	132	151
		12.58	87.42	
Black		11	52	63
		17.46	82.54	
Total		30	184	214

STATISTICS FOR TABLE 1 OF DEFRACE BY DEATHP
 CONTROLLING FOR VICTRACE=White

Statistic	DF	Value	Prob
Chi-Square	1	0.877	0.349
Likelihood Ratio Chi-Square	1	0.847	0.357
Continuity Adj. Chi-Square	1	0.519	0.471
Mantel-Haenszel Chi-Square	1	0.873	0.350
Fisher's Exact Test (Left)			0.233
(Right)			0.874
(2-Tail)			0.389
Phi Coefficient		-0.064	
Contingency Coefficient		0.064	
Cramer's V		-0.064	

Sample Size = 214

TABLE 2 OF DEFRACE BY DEATHP
 CONTROLLING FOR VICTRACE=Black

DEFRACE (Race of Defendant)		DEATHP (Death Penalty)		Total
Frequency	Row Pct	Yes	No	
White		0	9	9
		0.00	100.00	
Black		6	97	103
		5.83	94.17	
Total		6	106	112

STATISTICS FOR TABLE 2 OF DEFRACE BY DEATHP
 CONTROLLING FOR VICTRACE=Black

Statistic	DF	Value	Prob
Chi-Square	1	0.554	0.457
Likelihood Ratio Chi-Square	1	1.034	0.309
Continuity Adj. Chi-Square	1	0.000	1.000
Mantel-Haenszel Chi-Square	1	0.549	0.459
Fisher's Exact Test (Left)			0.598
(Right)			1.000
(2-Tail)			1.000
Phi Coefficient		-0.070	
Contingency Coefficient		0.070	
Cramer's V		-0.070	

Sample Size = 112

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

TABLE 1 OF VICTRACE BY DEATHP
 CONTROLLING FOR DEFRACE=White

VICTRACE (Race of Victim)		DEATHP (Death Penalty)		Total
Frequency	Row Pct	Yes	No	
White		19	132	151
		12.58	87.42	
Black		0	9	9
		0.00	100.00	
Total		19	141	160

STATISTICS FOR TABLE 1 OF VICTRACE BY DEATHP
 CONTROLLING FOR DEFRACE=White

Statistic	DF	Value	Prob
Chi-Square	1	1.285	0.257
Likelihood Ratio Chi-Square	1	2.347	0.126
Continuity Adj. Chi-Square	1	0.364	0.546
Mantel-Haenszel Chi-Square	1	1.277	0.258
Fisher's Exact Test (Left)			1.000
(Right)			0.311
(2-Tail)			0.601
Phi Coefficient		0.090	
Contingency Coefficient		0.089	
Cramer's V		0.090	

Sample Size = 160

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

TABLE 2 OF VICTRACE BY DEATHP
 CONTROLLING FOR DEFRACE=Black

VICTRACE (Race of Victim)		DEATHP (Death Penalty)		Total
Frequency	Row Pct	Yes	No	
White		11	52	63
		17.46	82.54	
Black		6	97	103
		5.83	94.17	
Total		17	149	166

STATISTICS FOR TABLE 2 OF VICTRACE BY DEATHP
 CONTROLLING FOR DEFRACE=Black

Statistic	DF	Value	Prob
Chi-Square	1	5.757	0.016
Likelihood Ratio Chi-Square	1	5.564	0.018
Continuity Adj. Chi-Square	1	4.561	0.033
Mantel-Haenszel Chi-Square	1	5.722	0.017
Fisher's Exact Test (Left)			0.996
(Right)			0.018
(2-Tail)			0.032
Phi Coefficient		0.186	
Contingency Coefficient		0.183	
Cramer's V		0.186	

Sample Size = 166

The last proc freq in the program file was

```
proc freq;  
  tables deathp*victrace*defrace / nopercnt norow nocol list;
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12:23 Sunday, March 28, 2004

DEATHP	VICTRACE	DEFTRACE	Frequency	Cumulative Frequency
Yes	White	White	19	19
Yes	White	Black	11	30
Yes	Black	Black	6	36
No	White	White	132	168
No	White	Black	52	220
No	Black	White	9	229
No	Black	Black	97	326

Then I edited this file to include another line for the zero frequency.

Yes	White	White	19
Yes	White	Black	11
Yes	Black	Black	6
Yes	Black	White	0
No	White	White	132
No	White	Black	52
No	Black	White	9
No	Black	Black	97