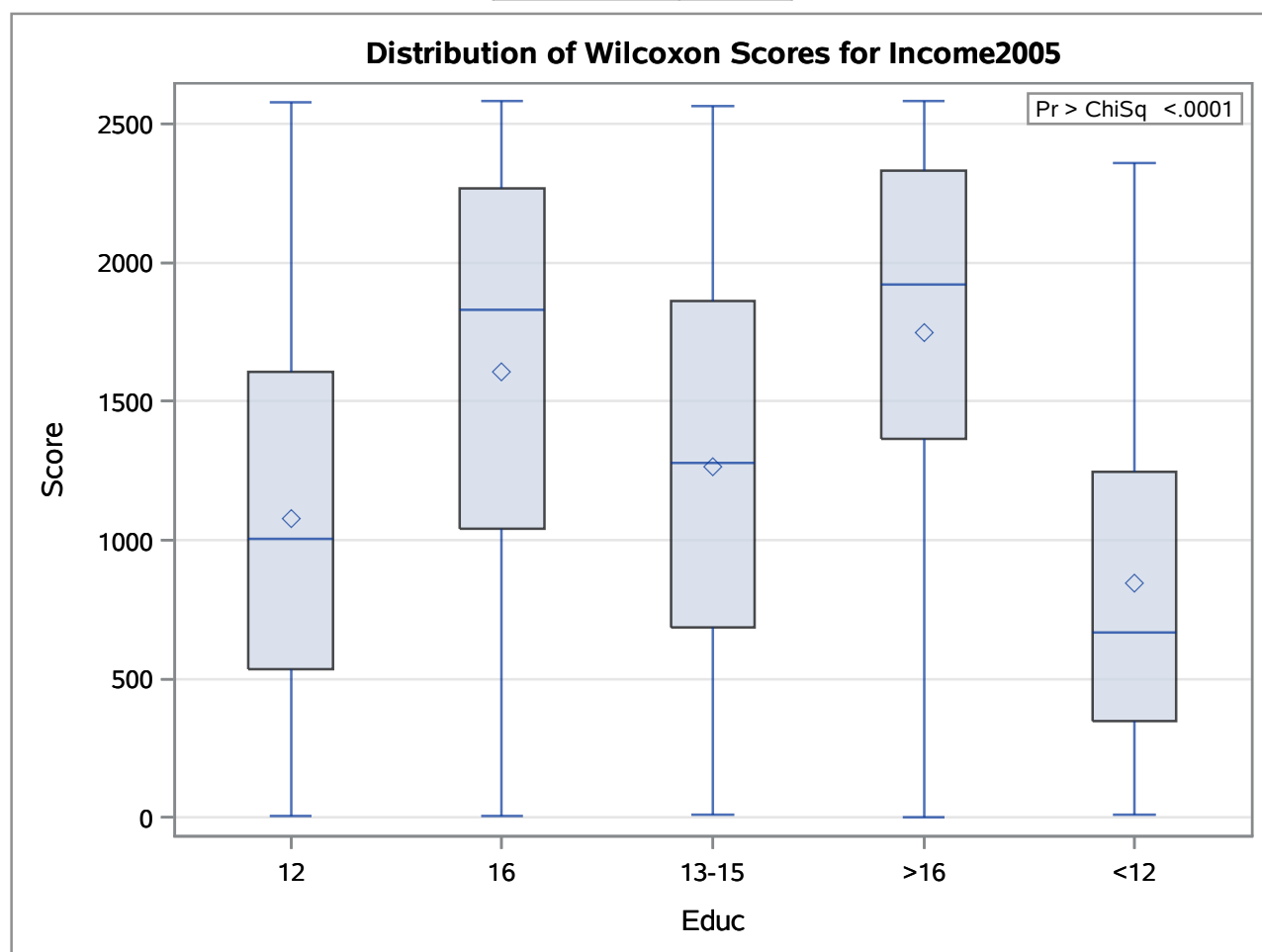


## The NPAR1WAY Procedure

Wilcoxon Scores (Rank Sums) for Variable Income2005 Classified by Variable Educ					
Educ	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
12	1020	1097659.50	1318350.0	18536.1583	1076.13676
16	406	653168.50	524755.0	13800.4492	1608.78941
13-15	648	819191.00	837540.0	16437.7151	1264.18364
>16	374	654733.00	483395.0	13342.3770	1750.62299
<12	136	115068.00	175780.0	8467.9138	846.08824
Average scores were used for ties.					

Kruskal-Wallis Test	
Chi-Square	349.4479
DF	4
Pr > Chi-Square	<.0001



## The NPAR1WAY Procedure

Data Scores for Variable Income2005 Classified by Variable Educ					
Educ	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
12	1020	37602194.0	50405338.8	1161044.06	36864.8961
16	406	28418771.0	20063301.5	864414.80	69996.9729
13-15	648	29079620.0	32022215.2	1029604.47	44875.9568
>16	374	28743943.0	18481957.6	835722.66	76855.4626
<12	136	3848997.0	6720711.8	530402.30	28301.4485

Data Scores One-Way Analysis	
Chi-Square	315.1983
DF	4
Pr > Chi-Square	<.0001

Monte Carlo Estimate for the Exact Test	
Pr >= Chi-Square	
Estimate	<.0001
99% Lower Conf Limit	<.0001
99% Upper Conf Limit	0.0005
Number of Samples	10000
Initial Seed	438414000

## The ANOVA Procedure

Class Level Information		
Class	Levels	Values
Educ	5	12 13-15 16 <12 >16

Number of Observations Read	2584
Number of Observations Used	2584

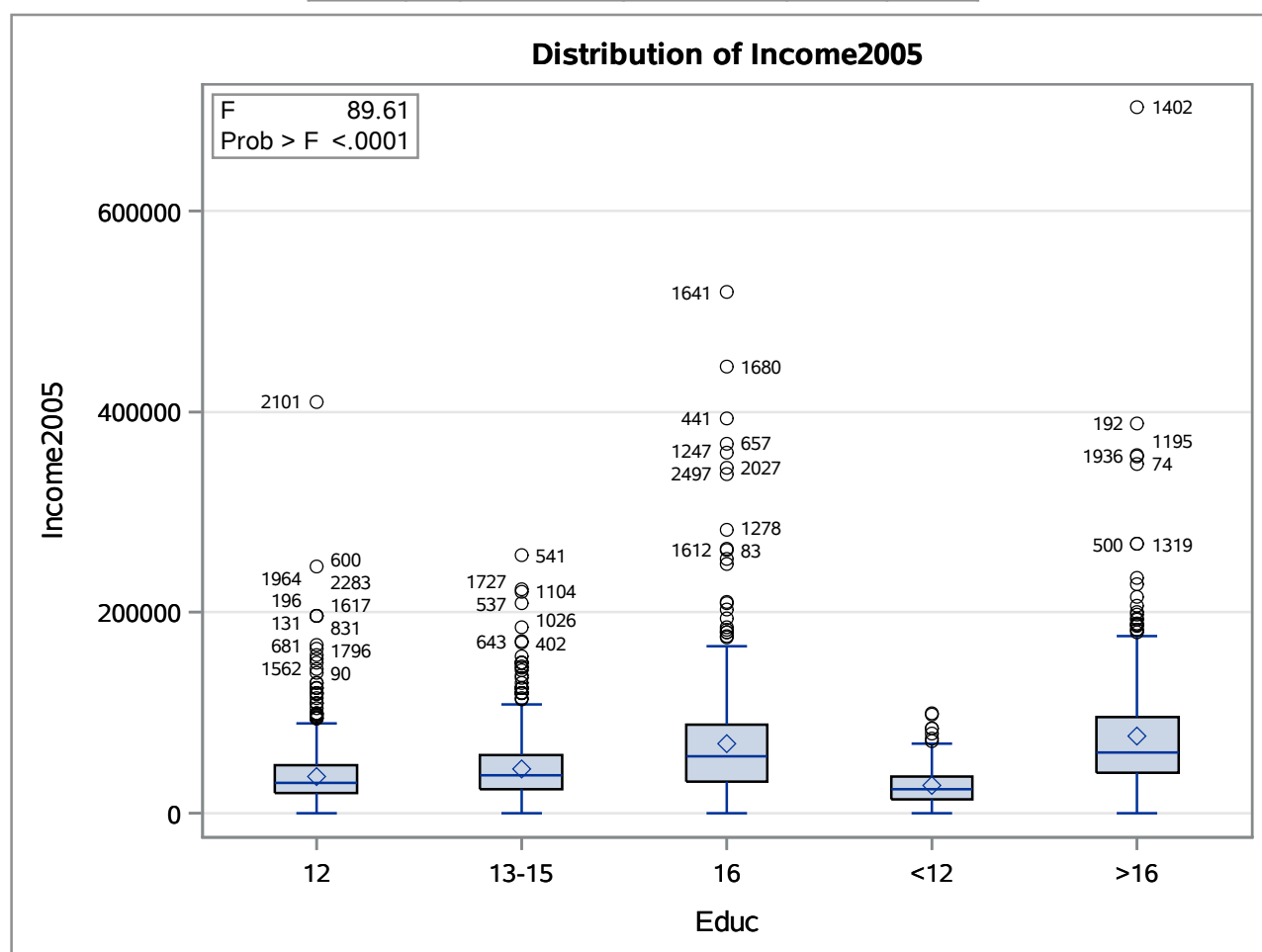
## The ANOVA Procedure

Dependent Variable: Income2005

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	688235137516	172058784379	89.61	<.0001
Error	2579	4.9517427E12	1920024319.9		
Corrected Total	2583	5.6399779E12			

R-Square	Coeff Var	Root MSE	Income2005 Mean
0.122028	88.67006	43818.08	49417.00

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Educ	4	688235137516	172058784379	89.61	<.0001



Marie Wallmark  
MSDS 6371

Questions:

1. Results from the ANOVA test of F-statistics and P-value of  $<.0001$  suggest significant evidence that at least one of the five population distributions is different. We would reject the null hypothesis that the population means are the same. Further testing is required to determine which of the observed groups is different.
2. With  $\text{CHI-square} < .0001$  from a nparlway test, we would reject the null hypothesis. I trust the results of both the permutation test and the ANOVA test.

Note: confidence level of .05 for both test

```
data futureinc;
input Subject$      Educ$ Income2005;
if educ = "<12" then year =1;
if educ = "12" then year =2;
if educ = "13-15" then year =3;
if educ = "16" then year =4;
if educ = ">16" then year =5;
datalines;
2      12      5500
6      16      65000
7      12      19000
8      13-15   36000
9      13-15   65000
13     16      8000
16     13-15   71000
17     13-15   43000
18     13-15   120000
20     >16     64000
21     16      253043
22     16      45300
29     12      85000
34     13-15   150432
37     12      37000
38     12      70000
39     12      67000
41     13-15   120000
42     12      45000
44     12      7200
46     >16     42000
47     12      66309
49     13-15   34000
57     12      12000
58     >16     55500
61     13-15   63000
62     13-15   30000
63     16      108000
69     >16     120000
73     >16     186135
78     16      14657
86     <12     14000
87     12      17000
89     16      62000
```

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120	16	150000
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126	13-15	85000
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141	>16	44768
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202	13-15	55000
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210	16	50000
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219	>16	102000
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228	<12	1600
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244	12	5000
245	13-15	25000
247	>16	79000
248	13-15	2000
253	<12	20000
256	13-15	3000
257	12	22000
259	12	14000
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275	13-15	52000
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1878	12	8000
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11849	12	50000
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11860	12	40000
11863	13-15	77919
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11865	12	42500
11867	16	28000
11868	16	102831
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11870	16	11000
11872	13-15	24500
11875	12	57000
11878	12	22000
11879	12	13691
11880	12	15000
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11883	12	44000
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11886	13-15	10000
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11889	>16	40000
11890	<12	50400
11891	12	10000



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11897	13-15	64000
11898	16	58500
11901	13-15	29000
11902	>16	48000
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11911	13-15	46000
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11923	13-15	12000
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11926	12	45000
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11937	>16	43000
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11942	12	39000
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11949	12	26000
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11958	12	75000
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12014	16	85000
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12019	12	58000
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12023	>16	65000
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12032	12	24000
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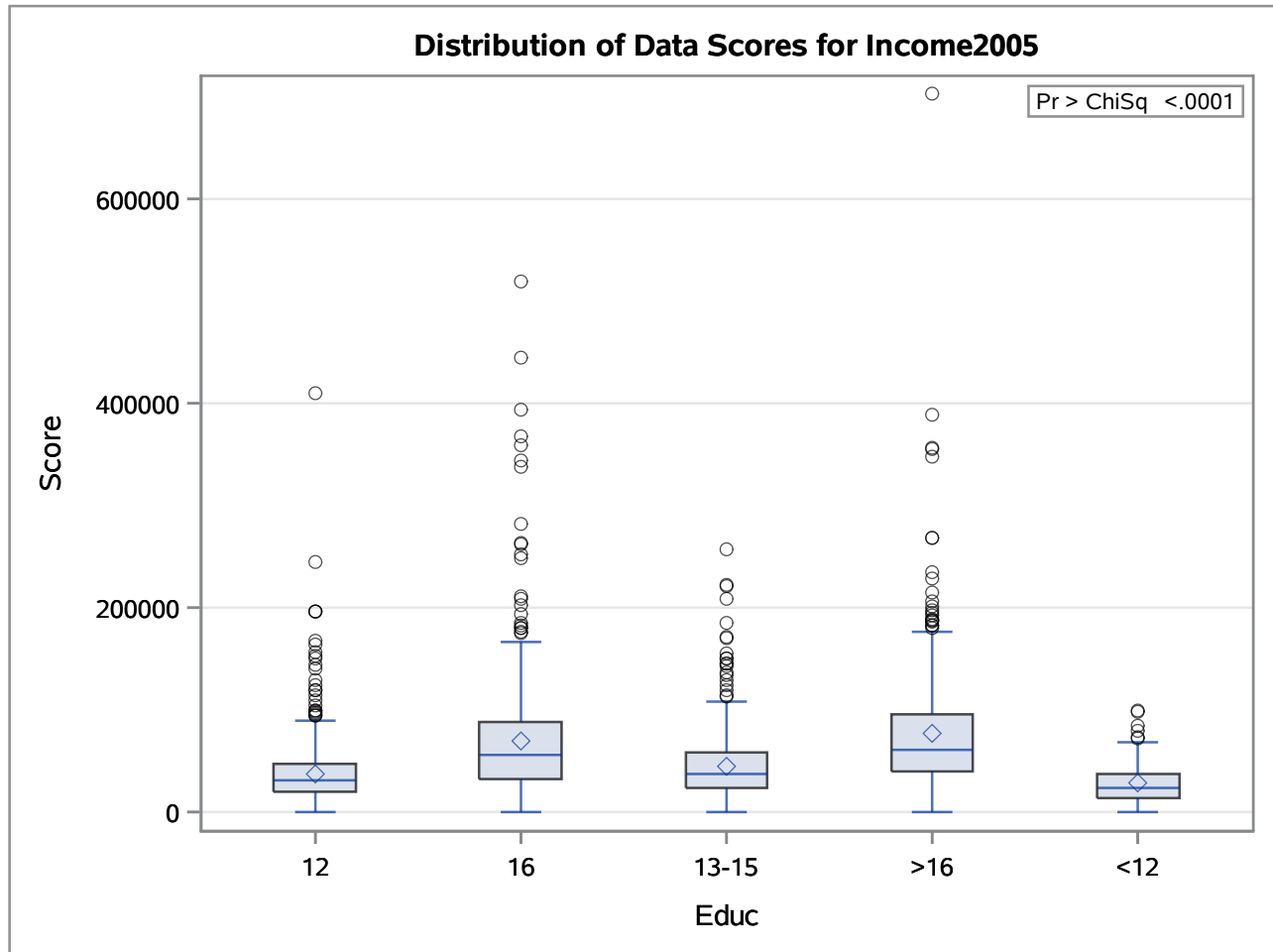
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12131	12	23000
12133	12	11560
12135	<12	22000
12138	13-15	21000
12139	12	12600
12140	13-15	45000

```

;
proc print;
run;
proc print data=futureinc;run;
ods html;
proc anova data=futureinc;
class educ;
model income2005 = educ;
run;
ods html;
PROC NPAR1WAY DATA=futureinc WILCOXON scores=data;
CLASS educ;
EXACT scores=data / MC;
VAR income2005;
run;

```

## The NPAR1WAY Procedure



```
ods html close;
```

```
ODS PDF FILE='futureinc.pdf';
```

```
ODS PDF CLOSE;
```