```
DATA UNLEADED;
INPUT GASTYPE $ MILEAGE;
datalines;
A   24
A   25
A   24.3
A   25.5
B   25.3
B   26.5
B   26.4
B   27.0
B   27.6
C   23.3
C   24.0
C   24.7
;
PROC ANOVA;
CLASS GASTYPE;
MODEL MILEAGE = GASTYPE;
MEANS GASTYPE/CLM SCHEFFE BON TUKEY;
RUN;
```

The SAS System

The ANOVA Procedure

Class Level Information		
Class	Levels	Values
GASTYPE	3	A B C

Number of Observations Read	12
Number of Observations Used	12

The SAS System

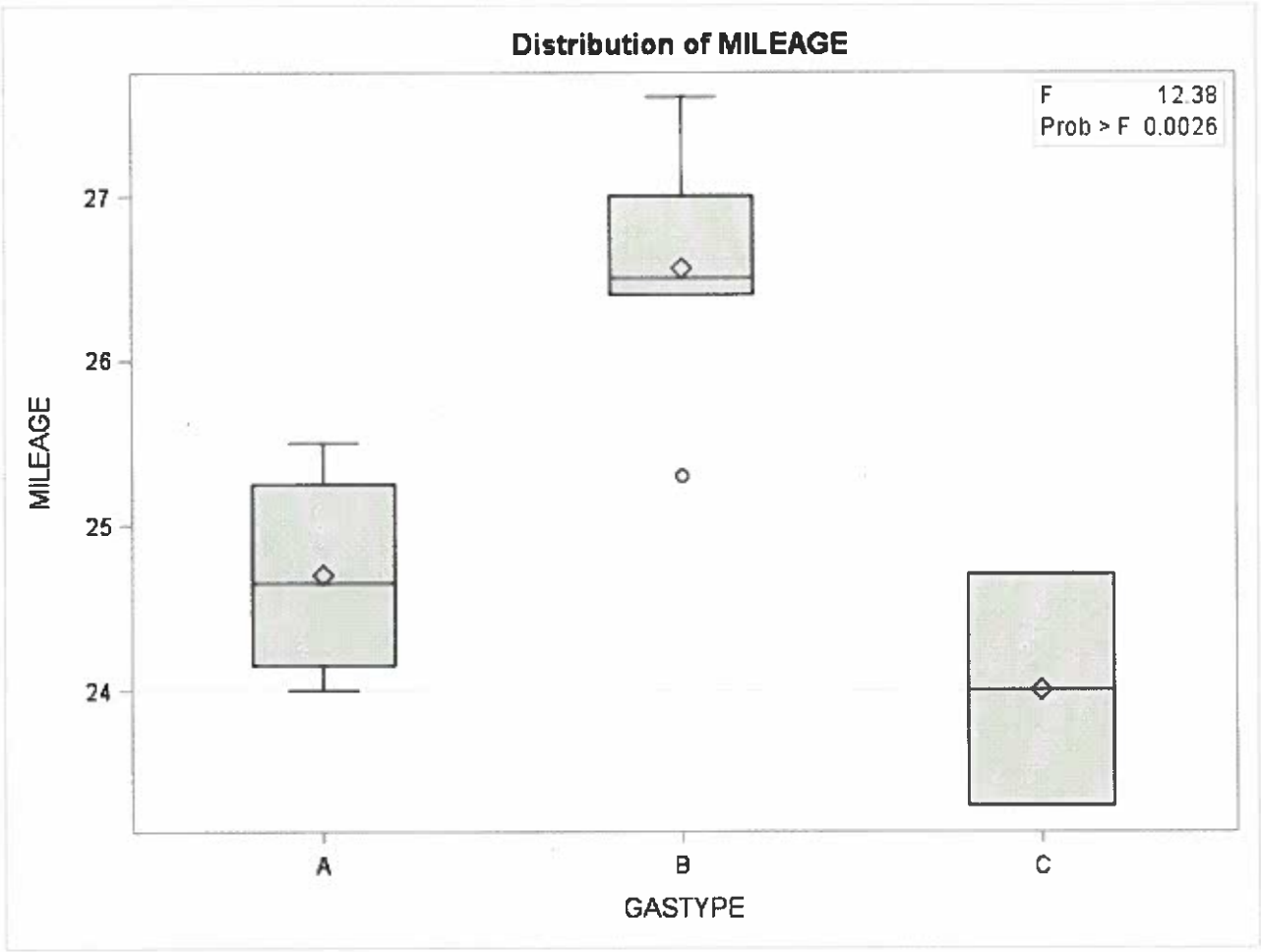
The ANOVA Procedure

Dependent Variable: MILEAGE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	14.44800000	7.22400000	12.38	0.0026
Error	9	5.25200000	0.58355556		
Corrected Total	11	19.70000000			

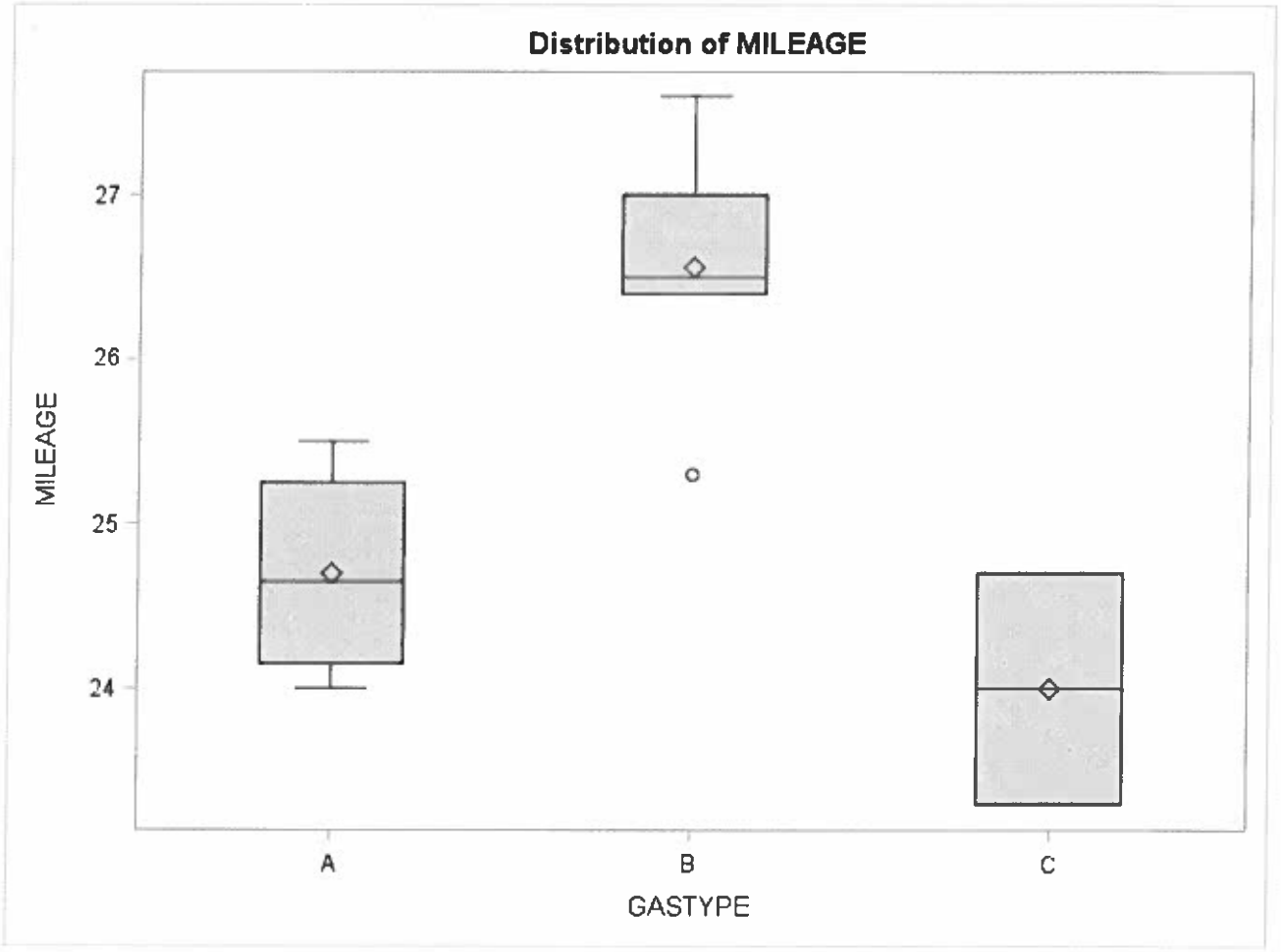
R-Square	Coeff Var	Root MSE	MILEAGE Mean
0.733401	3.019400	0.763908	25.30000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
GASTYPE	2	14.44800000	7.22400000	12.38	0.0026



The SAS System

The ANOVA Procedure



The SAS System

The ANOVA Procedure

Bonferroni t Confidence Intervals for MILEAGE

Alpha	0.05
Error Degrees of Freedom	9
Error Mean Square	0.583556
Critical Value of t	2.93332

GASTYPE	N	Mean	Simultaneous 95% Confidence Limits	
B	5	26.5600	25.5579	27.5621
A	4	24.7000	23.5796	25.8204
C	3	24.0000	22.7063	25.2937

The SAS System

The ANOVA Procedure

Scheffe's Confidence Intervals for MILEAGE

Alpha	0.05
Error Degrees of Freedom	9
Error Mean Square	0.583556
Critical Value of F	3.86255

GASTYPE	N	Mean	Simultaneous 95% Confidence Limits	
B	5	26.5600	25.3971	27.7229
A	4	24.7000	23.3998	26.0002
C	3	24.0000	22.4987	25.5013