EPA-460/3-76-029
October 1976

ANALYSIS OF GM FUEL ECONOMY SURVEYS

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Air and Waste Management
Office of Mobile Source Air Pollution Control
Emission Control Technology Division
Ann Arbor, Michigan 48105

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ANALYSIS OF GM FUEL ECONOMY SURVEYS

by

Dr. Ronald F. Janz

Mobile Systems Group
Aerospace Corporation
El Segundo, California 90245

Contract No. 68-01-0417

EPA Project Officer: J.D. Murrell

Prepared for

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Publication No. EPA-460/3-76-029

FOREWORD

This report, prepared by The Aerospace Corporation for the U.S. Environmental Protection Agency, Emission Control Technology Division, presents the results of an evaluation of seasonal, topographical, and geographical effects on fuel economy of in-use vehicles manufactured by the General Motors Corporation.

The results of the study are presented in five sections. Sections 1 and 2 briefly summarize the study results and approach. A discussion of the data and methods of analysis is included in Sections 3 and 4. Section 5 presents the detailed study results.

ACKNOWLEDGMENT

During the course of this study, Mr. J. Dillard Murrell of the Environmental Protection Agency's Emission Control Technology Division, who served as EPA Project Officer for the study, provided valuable guidance and assistance. His efforts are gratefully acknowledged.

Dr. Ronald F. Janz was principally responsible for the analysis effort reported herein. The following technical personnel of The Aersopace Corporation also made valuable contributions to the analysis performed under this contract:

William M. Smalley
Patricia L. McGill
Esther Lamken
Siumay Cheung
Kenneth A. Glaser
Charles J. Teenor
Edward V. Sakaguchi

Lester Forrest, Director
Vehicle Performance Office

Approved by

Merrill G. Hinton, Group Director
Mobile Systems

Joseph Meltzer, General Manager
Environment and Energy Conservation
Division

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SUMMARY

Current Product Engineering, Engineering Staff, General Motors Corporation conducted three fuel economy surveys of 1975 GM private passenger car owners. The objective of these surveys was to determine what kind of fuel economy 1975 GM customers were experiencing. Data from this survey for 1532 cars formed the basis for this study. Additional seasonal, topographical, and geographical data associated with the locations of the owners were acquired from the literature and added to the GM data base. Carline classes were then defined which contained cars with the following parameters in common: GM Division, Inertia Weight, Engine Displacement—Number of Carburetor Barrels (CID-BBL), Transmission Type, and Axle Ratio. Harmonic mean fuel economies were computed for groups of cars within each carline class. These groups were associated with extreme ranges in each of eight seasonal, topographical, and geographical parameters. The dependence of fuel economy on these parameters was determined by comparing fuel economies between groups. Sales weighted harmonic mean fuel economies were computed for analogous groups at the division and fleet level.

Preliminary results indicate an increase in fuel economy with an increase in average miles traveled per day for all carline classes. It was also found that temperature and population (i.e., urban/highway driving conditions) have a lesser influence on fuel economy, but that a larger data base is required in order to properly evaluate this result.

SECTION 1

INTRODUCTION

The objective of this study was to analyze GM customer fuel economy data for seasonal, topographical, and geographical effects on fuel economy of in-use vehicles. Data which characterize season, topography, and geography (such as temperature or elevation) were hand-transcribed from the literature and incorporated into a GM fuel economy survey data base. While this involved a substantial effort, it was justified on the basis that these data could be used to identify fundamental relationships between fuel economy and key parameters or combinations of parameters.

There are many automobile design parameters which also affect fuel economy. Those which were singled out for this study are as follows: inertia weight, engine displacement (CID), number of carburetor barrels (BBL), transmission type, and axle ratio. There are other design parameters, of course, which also may have an effect on fuel economy such as the number of gears in the transmission, whether or not the car is air-conditioned, and so forth. However, in this study the latter parameters were assumed to have a secondary effect on fuel economy.

In order to separate the effect on fuel economy of the above design parameters from the effect of seasonal, topographical, and geographical parameters, cars of common inertia weight, engine displacement, number of carburetor barrels, transmission type, and axle ratio were grouped into classes. Any change in fuel economy within a class was then attributed to an effect other than a change in automobile design. Harmonic mean fuel economies were computed for subgroups of cars within individual carline classes. A chi-square distributed statistic was used to test the hypothesis that the mean fuel economies for these groups were equal. The test that was used (Appendix C) is asymptotic in nature and is not strictly applicable to the small groups of cars that were analyzed in this study. Therefore, the results of this study should be considered preliminary in nature.

A larger data base is required to substantiate these preliminary results as well as to allow the application of multiple level hypothesis testing. Such testing could be used to distinguish between parameters that affect fuel economy and to determine the relative importance of these parameters as determinants of fuel economy.

SECTION 2

DATA ACQUISITION AND ANALYSIS

The GM data base supplied by the EPA Project Officer consisted of data acquired in three separate surveys: a 1975 Winter Survey consisting of cars with an average initial odometer reading of 2535, a 1975 Spring-Summer Survey consisting of cars with an average initial odometer reading of 2600, and a 1975 Spring-Summer Survey consisting of cars with an average initial odometer reading of 6050. In order to minimize differences in fuel economy resulting from the "green car effect," only data from the first two surveys were used in this analysis. There were a total of 1745 cars in this reduced data set. Some of these cars were eliminated because of missing or erroneous data and because it was not possible to obtain certain seasonal, topographical, or geographical data associated with the locations of some of the car owners. After eliminating these cars, there remained a total of 1532 cars for analysis.

A partial listing of the data contained in the reduced data base is given in Table A-1 of Appendix A. Axle ratio and transmission type have been recoded for the purposes of this study. The codes for Division, Body Type, CID-BBL, Axle Ratio, and Transmission Type are given in Table 2-1.

A list of the data that were added to the data base for the purposes of this study is contained in Table A-2 of Appendix A. The first column of information in this table consists of inertia weights for each car. These weights were obtained from Body Type and Division using Table 2-2.

The "Season" parameter in the second column of Table A-2 is equal to either "S" or "W" depending on whether the data were obtained from the Spring-Summer Survey or the Winter Survey. This parameter is used to determine the weather parameters discussed below.

The third column of this table contains average miles per day (abbreviated AMPD). This value was obtained from the initial and final odometer readings and the dates of the initial and final tank fills.

Table 2-1. GM Data Codes

CODE	DIVISION
1	Chevrolet
2	Pontiac
3	Oldsmobile
4	Buick
6	Cadillac

CODE	BODY TYPE
1	Intermediate
2	Standard
3	Luxury
4	Fleetwood 75
5	Riviera, Toronado, Eldorado
6	Sporty (Camaro, Firebird)
7	Special Intermediate
8	Subcompact
9	Compact
11	Monza, Starfire, Skyhawk

CODE	CID-BBL[a]
2	140-1
3	140-2
5	231-2
6	250-1
7	260-2
8	262-2
9	350-2
10	350-4
11	400-2
12	400-4
13	454-4
14	455-4
15	500-5

CODE	AXLE RATIO
1	2.56
2	2.73
3	2.92, 2.93
4	3.08
5	3.42

CODE	TRANSMISSION TYPE
1	Automatic
2	Manual

[a]Cubic Inch Displacement - Number of Carburetor Barrels

Table 2-2. Inertia Weight – GM Body Type Relationship (1975 Model Year)

GM Body Type Code	GM Division Code				
	1 (Chev)	2 (Pontiac)	3 (Olds)	4 (Buick)	6 (Cadillac)
1. (Intermediate)	4500	4500	4500	4500	----
2. (Standard)	(a)	(a)	(a)	(a)	----
3. (Luxury)	----	----	5500	5500	5500
4. (Fleetwood 75)	----	----	----	----	5500
5. (Riviera, Toronado, Eldorado)	----	----	5500	5000	5500
6. (Camaro, Firebird)	4000	4000	----	----	----
7. (Special Intermed.)	4500	4500	----	----	----
8. (Subcompact)	3000	3000	----	----	----
9. (Compact)	4000	4000	4000	4000	----
11. (Monza, Starfire, Skyhawk)	3500	----	3500	3500	----

[a]Body type includes a range of inertia weights; 5250 assumed for this data group.

The population values in the fourth column of Table A-2 correspond to the city in which the driver resides. These values were obtained from the 1976 Commercial Atlas and Marketing Guide.[1]

The fifth column of Table A-2 contains a code which indicates whether or not the city is a suburb of a larger city (the letter S indicates that it is a suburb). The actual populations of suburbs do not represent the general population density of the area. Therefore, in the statistical analysis which was performed on these data the populations of suburbs were arbitrarily considered to be equal to 100,000.

The sixth column in Table A-2 contains a terrain "index" that is used as a measure of local topography. Values for this index were obtained from The National Atlas of the United States of America.[2] The code that was used is as follows:

Slope

"A" - more than 80 percent of area gently sloping

"B" - 50-80 percent of area gently sloping

"C" - 20-50 percent of area gently sloping

"D" - less than 20 percent of area gently sloping

Local Relief

"1" - 0-100 feet

"2" - 100-300 feet

"3" - 300-500 feet

"4" - 500-1000 feet

"5" - 1000-3000 feet

"6" - over 3000 feet

Due to the limited number of cars available in the data base, only "Slope" was used as an indication of the terrain in the analysis.

The elevation data (feet above sea level) in the seventh column of this table were obtained from the same source as population (see above).

The weather data in the eighth, ninth, tenth, and eleventh columns were obtained from Climatological Data, National Summary.[3] Average values

were used for the months of December 1974 or June 1975, depending on the value of the Season parameter discussed above. (The assumption was made that these months characterized the local climate during the duration of the Winter and Spring-Summer surveys respectively, since the ranges in dates between initial mailing of the surveys to General Motors' customers and accepting responses for these surveys were November 1974 through February 10, 1975 and May 1, 1975 through July 31, 1975.) The units for these quantities are as follows: temperature – °C, relative humidity – %, precipitation and snow/ice – mm. (The last quantity was not used in this analysis.)

The last column contains a four-digit model code. The first digit corresponds to General Motors. The second digit corresponds to a specific division of General Motors.* The last two digits correspond to the specific model within this division. The correspondence between this code and car model is given in Table 2-3 along with Body Type. The relationship between the latter quantity and model was used to determine the four-digit model designation listed for each car in Table A-2 (Appendix A). Unfortunately, knowledge of the division and body type does not allow a distinction between Vegas, Vega Wagons, and Monzas, for example. (All have Body Type 8 as indicated in Table 2-3.) Whenever a situation like this occurred, the lowest model number was used. That is, in the above example, all Chevrolets with Body Type 8 were given the code 2402 corresponding to Vegas. This model code was introduced into the data base solely for the purpose of determining total sales of cars in each carline class. (Projected 1975 model year sales data were provided by the EPA Project Officer by model for California and Federal Light Duty Vehicles.) The method which was used to determine total sales for a given class can best be explained by the following example. One of the classes consisted of two models: 2407 and 2412. According to Table 2-3 this class could conceivably contain the following models: Chevelle (Malibu, Laguna); Chevelle Wagon; and Monte Carlo. The total sales for this class

*This code was developed in conjunction with other EPA studies. Consequently, the Division Code does not correspond to the one in the GM data base (see Table 2-1).

Table 2-3. Model Codes

Division Code		Body Type	Model Code	
2	Buick	11	01	Skyhawk
		9	02	Apollo
		9	03	Skylark
		1	04	Century/Regal
		1	05	Century Wgn
		2	06	Le Sabre
		3	07	Electra
		2	08	Estate Wgn
		5	09	Riviera
3	Cadillac	--	01	Seville
		3	02	Calais/Deville
		5	03	Eldorado
		3	04	Fleetwood Brougham
		4	05	Fleetwood 75
4	Chevrolet	--	01	Chevette
		8	02	Vega
		8	03	Vega Wgn
		8	04	Monza
		9	05	Nova
		6	06	Camaro
		1	07	Chevelle (Malibu, Laguna)
		1	08	Chevelle Wgn
		2	09	Chevrolet (Caprice, Impala, Bel Air)
		2	10	Chevrolet Wgn
		--	11	Corvette
		7	12	Monte Carlo
5	Oldsmobile	11	01	Starfire
		9	02	Omega
		1	03	Cutlass
		1	04	Cutlass Wgn
		2	05	Delta 88
		3	06	Ninety-Eight
		2	07	Cust. Cruiser Wgn
		5	08	Toronado
6	Pontiac	3	01	Astre
		8	02	Astre Safari
		11	03	Sunbird
		9	04	Ventura
		6	05	Firebird
		1	06	Lemans
		1	07	Lemans Wgn
		7	08	Grand Prix
		2	09	Pontiac (Bonneville, Catalina, Grandville)
		2	10	Pontiac Wgn
		1	11	Grand AM
		1	12	Trans AM

was assumed to be equal to the sum of the sales for these models including both California and Federal Light Duty Vehicles. The sales data that were used in this analysis are given in Table 2-4. As implied by this table, one additional complication occurred with respect to the treatment of the sales data, that is: some of the carline classes contained identical models. For the purpose of computing sales weighted harmonic mean fuel economy (see Appendix C), it was therefore necessary to combine these carline classes into single classes and associate a single sales value (Table 2-4) with each of the combined classes.

Table 2-4. Projected 1975 Model Year Sales Data (from EPA Certification Test Data Base – California and Federal Light Duty Vehicles)

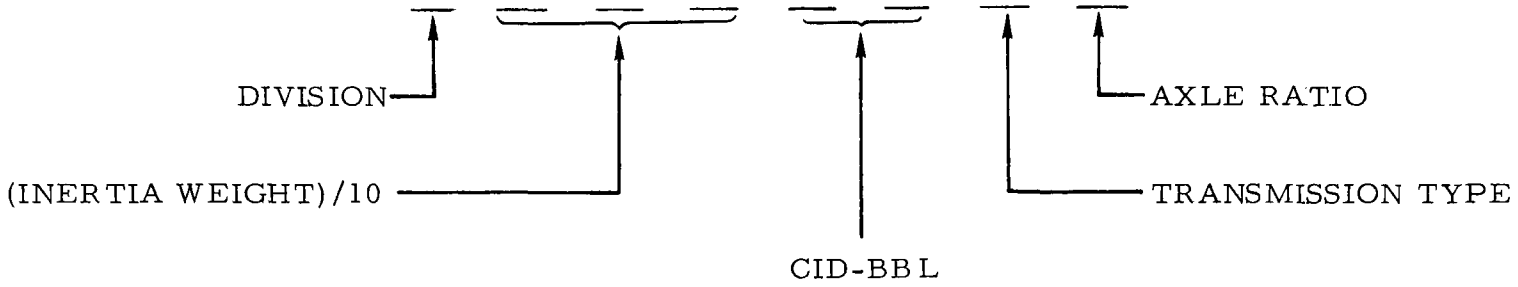
Number	Class I. D.[a]	Class Sales, %[b]	Division Sales, %[b]	Fleet Sales, %[b]
1	13000313	7.13		
2	13000323			
3	14000612	8.99		
4	14000912			
5	14500912	17.43		
6	15250914	19.77		
7	15251212		53.32	
8	23000313	3.31		
9	23000323			
10	24000911	2.40		
11	24500911	6.58		
12	24501211			
13	25251111	4.79		
14	25251212		17.08	
15	34000711	(c)		
16	34501011	9.00		
17	35251012	3.19		
18	35501411	2.40		
19	35501412	0.79	15.38	
20	44500912	5.49		
21	45001413	0.20		
22	45251014	4.64		
23	45501412	3.89	14.22	
				100.00

[a]Refer to Table 2-5 for an explanation of the Class I. D.

[b]For those models that were represented in each carline class.

[c]Data not available; zero value adopted for sales summation.

Table 2-5. Carline Class Identification



Example

13000313

This is a Chevrolet which weighs 3000 pounds, has a 140 cubic inch displacement engine, a 2 barrel carburetor, automatic transmission, and an axle ratio equal to 2.92[a]

[a]Refer to Table 2-1.

SECTION 3

METHODS

The dependence of fuel economy, that is, miles per gallon (mpg) on eight seasonal, topographical, and geographical parameters was investigated in this study. The method utilized for establishing this dependence involved the following steps:

a. Definition of a Carline Class. Carline classes were initially defined so that the dependence of fuel economy on seasonal, topographical, and geographical effects could be separated from the dependence of fuel economy on the design of the car. Five parameters were used to define a carline class: (1) Division of General Motors, (2) Inertia Weight, (3) Engine-Carburetion Design (CID-BBL), (4) Transmission Type (Manual versus Automatic), and (5) Axle Ratio (one of five values).

b. Choice of Minimum Cars per Class. It was decided to consider only carline classes with at least 20 cars. There were three considerations that suggested this would be a reasonable number of cars per class:

   1. No fewer than five cars could be used in a given group within a carline class to compute a harmonic mean fuel economy (see Appendix C) and determine statistically whether this mean value was significantly different from another harmonic mean fuel economy.

   2. A sufficient number of cars per class would be required so that two groups of cars, containing at least five cars each, could be identified in such a manner that the ranges in a given parameter associated with each group did not overlap. This criteria would necessarily apply to all eight parameters for each class.

   3. As many cars as possible in the data base would be included in the study.

The first two considerations clearly suggest large classes, while the third consideration suggests small classes. A value of 20 cars per class was chosen as a reasonable compromise.

c. Determination of Carline Classes. A computer program was written which searched the data base for combinations of the five parameters (which define a carline class) that were common to at least 20 cars. The results of this search are shown in Table 3-1. As indicated in this table, 24 classes were found that satisfied this criteria. These 24 carline classes include 69 percent of the cars in the data base.

d. Determination of Carline Class Harmonic Mean Fuel Economies. A computer program was written that performs the following computations: for each class of cars it determines N number of cars which are associated with extreme values of each of the eight seasonal, topographical, and geographical parameters. (For example, with N=5, the program would identify those cars associated with the five highest and five lowest values of each parameter in each class.) The program then computes harmonic mean fuel economies for each grouping of N cars. Sales weighted harmonic mean fuel economies (see Appendix C) were not computed at a carline class level since frequently the same models were not present in the extreme parameter ranges. Under these circumstances, differences in sales weighted fuel economies would be, at least partially, the result of differences in model mix rather than the parameter under investigation.

e. Determination of Division and Fleet Sales Weighted Harmonic Mean Fuel Economies. Sales weighted harmonic mean fuel economies were computed at both the division* and fleet level. In order to assure that each carline class contained at least three cars in the extreme parameter ranges at the division level, it was necessary to increase the number of cars in each extreme to as many as 104. A corresponding analysis at the fleet level indicated that 479 cars would be required so that all 24 carline classes contained at least three cars in each extreme parameter range.

---

*This was not done for the Cadillac Division since only one carline class was available for that division.

Table 3-1. Carline Classes That Contain at Least 20 Cars

CLASS CODE	NUMBER OF CARS
13000313	26
13000323	22
14000612	32
14000912	40
14500912	77
15250914	37
15251212	25
23000313	34
23000323	25
24000911	48
24500911	44
24501211	49
25251111	35
25251212	22
34000711	30
34501011	35
35251012	59
35501411	59
35501412	51
44500912	42
45001413	42
45251014	70
45501412	74
65501512	83

The sales weighted values presented should be interpreted with caution since there were generally an insufficient number of carline classes to represent the divisions adequately.

f. Determination of the Test Statistic for Evaluating Differences in Fuel Economy. It can be shown that the "Test Statistic" denoted "G" in Appendix C is distributed as a chi-square with α level of confidence and 1 degree of freedom. For $\alpha = 0.95$, $y^2 = 3.84146$. If G exceeds this value, the hypothesis that two harmonic mean fuel economies under investigation are the same is rejected at a 95-percent confidence level.

Values for this statistic were computed for each pair of mean fuel economies for each of the seasonal, topographical, and geographical parameters for each carline class.

SECTION 4

RESULTS

4.1 CARLINE CLASS HARMONIC MEAN FUEL ECONOMY COMPARISONS

The main results of this study are displayed in Tables 4-1 and 4-2 for N=5 and N=10 respectively. An asterisk next to the "Test Statistic" is used to flag significant differences between mean fuel economies. Note that for some of these carline classes the upper bound in AMPD (average miles per day) is quite large. At first it was assumed that this was due to erroneous data that should be deleted from the data base. However, in all cases it was found that these large values occurred over relatively short periods of time, indicating long trips. The data were therefore assumed to be accurate. Note also that the lower bound on population (Range 2) is frequently equal to 100,000. This occurs because of the suburbs in the data base that are all assigned this population.

Comparing Table 4-1 with Table 4-2, it is evident that, while the mean fuel economies depend to a certain extent on the number of cars that are used in the extreme parameter ranges, those mean fuel economies which differ significantly with five cars in the extreme parameter ranges generally differ significantly with ten cars in the extreme parameter ranges as well. Consequently, the discussion that follows will be confined to Table 4-2. As indicated in this table, it was found that fuel economy increases significantly with increasing AMPD for all 24 carline classes. While this trend in the data was anticipated, it was not expected to dominate generally over other factors that are known to affect fuel economy also. (See discussion below.)

Occasional differences in fuel economy with respect to elevation, precipitation, relative humidity, terrain (local slope), and zip code were detected. For example, consider Class 24500911 which exhibits a difference

Table 4-1. GM Fuel Economy Study
Harmonic Mean Fuel Economy Comparisons (N = 5)

DATE 81776
SALES WEIGHTED NO
NUMBER OF CARS IN PARAMETER RANGE 1 5
NUMBER OF CARS IN PARAMETER RANGE 2 5
CRITICAL VALUE OF TEST STATISTIC AT .05 SIGNIFICANCE LEVEL = 3.84146

CLASS	PARAMETER	RANGE1		RANGE2		MEAN MPG1	MEAN MPG2	TEST STATISTIC
13000313	ZIPCODE	(2828,	13205)	(92037,	99109)	19.4156	19.8638	.0575
	POPULATION	(120,	2102)	(216000,	3000000)	18.9694	20.4145	.6706
	SLOPE	(A1,	B2)	(C3,	D4)	19.8636	19.1712	.3976
	ELEVATION	(25,	140)	(938,	7300)	18.2762	17.3563	.3906
	HUMIDITY	(56,	65)	(81,	88)	19.5706	19.9039	.0728
	PRECIPITATION	(9,	36)	(163,	203)	17.9449	19.6955	.9014
	TEMPERATURE	(-4.2000,	-.4000)	(21.8000,	26.7000)	17.8793	19.4180	.7441
	AMPD	(9.0200,	13.4600)	(65.2700,	92.5000)	17.0313	21.8918	12.5485*
13000323	ZIPCODE	(14467,	49910)	(93041,	99207)	23.6099	20.6040	1.7596
	POPULATION	(150,	6200)	(100000,	5350000)	22.6006	22.7384	.0034
	SLOPE	(A1,	B2)	(C5,	C5)	22.7438	22.2821	.0252
	ELEVATION	(12,	65)	(4090,	5300)	20.9862	21.2149	.0738
	HUMIDITY	(1,	61)	(78,	88)	21.5466	22.4809	.1051
	PRECIPITATION	(0,	14)	(101,	154)	22.0788	21.4709	.0418
	TEMPERATURE	(-2.4000,	-.5000)	(20.2000,	24.1000)	19.9157	23.5855	1.7443
	AMPD	(9.6300,	22.3100)	(65.7800,	608.0000)	19.8463	25.7016	8.2668*
14000612	ZIPCODE	(4048,	11714)	(61728,	98466)	16.8329	16.2864	.2300
	POPULATION	(450,	3080)	(150000,	7950000)	16.8714	15.0740	2.1655
	SLOPE	(A1,	A1)	(C4,	D4)	14.5662	13.7546	.2554
	ELEVATION	(9,	67)	(880,	1340)	15.4820	12.4671	4.5482*
	HUMIDITY	(62,	70)	(82,	90)	15.4848	15.2357	.0240
	PRECIPITATION	(9,	60)	(140,	222)	14.7767	16.4577	2.9164
	TEMPERATURE	(-4.2000,	-.2000)	(22.3000,	28.1000)	13.8084	16.2499	4.0753*
	AMPD	(8.2000,	15.3400)	(44.0000,	57.2100)	11.9132	16.6151	18.8316*
14000912	ZIPCODE	(11367,	15236)	(76134,	84015)	11.0595	12.9989	4.9566*
	POPULATION	(161,	2496)	(850000,	3000000)	14.5082	11.8904	4.9544*
	SLOPE	(A1,	A1)	(C5,	D4)	13.2181	11.9435	.9256
	ELEVATION	(10,	45)	(2010,	5280)	11.4785	12.9985	2.5965
	HUMIDITY	(54,	68)	(84,	90)	12.1515	11.3499	.5693
	PRECIPITATION	(7,	33)	(118,	162)	12.6048	13.8212	.6608
	TEMPERATURE	(-4.2000,	-1.5000)	(20.6000,	27.5000)	12.3689	13.9572	1.1566
	AMPD	(9.3500,	13.8500)	(41.8300,	107.8300)	10.3190	14.1627	17.8407*
14500912	ZIPCODE	(2052,	13733)	(80907,	99802)	12.5223	11.4599	.6606
	POPULATION	(189,	750)	(850000,	3520000)	15.0341	10.3995	35.6459*
	SLOPE	(A1,	A1)	(D4,	D6)	12.1320	11.8324	.0400
	ELEVATION	(10,	45)	(1600,	6000)	10.3986	12.0397	1.0878
	HUMIDITY	(47,	66)	(88,	91)	12.1786	10.7127	.5904
	PRECIPITATION	(9,	34)	(179,	203)	11.9627	13.4807	.8220

Table 4-1. GM Fuel Economy Study
Harmonic Mean Fuel Economy Comparisons (N = 5) (Continued)

	TEMPERATURE	(-5.4000,	-1.9000)	(26.7000,	27.5000)	11.1890	11.8458	.2957
	AMPD	(6.2400,	10.1500)	(72.8900,	270.0000)	10.3265	14.9645	34.9261*
15250914	ZIPCODE	(4231,	13021)	(69030,	97411)	11.8270	12.1288	.1026
	POPULATION	(200,	683)	(1600000,	3000000)	13.2492	10.9668	3.8402
	SLOPE	(A1,	A1)	(C3,	D5)	11.1817	11.9114	1.5743
	ELEVATION	(10,	57)	(990,	1680)	11.4914	12.7668	3.1329
	HUMIDITY	(65,	68)	(83,	91)	12.3446	10.8798	1.9718
	PRECIPITATION	(3,	49)	(156,	222)	11.5333	11.4684	.0133
	TEMPERATURE	(-4.7000,	-1.2000)	(22.3000,	28.1000)	11.5810	12.5349	1.5253
	AMPD	(9.8100,	13.1500)	(59.2500,	151.2500)	10.4928	12.3301	6.2838*
15251212	ZIPCODE	(14055,	17236)	(70549,	97470)	11.7292	13.3270	1.4800
	POPULATION	(100,	900)	(100000,	360000)	12.3009	12.2370	.0024
	SLOPE	(A1,	B2)	(C5,	D5)	11.9588	13.0101	.4628
	ELEVATION	(40,	400)	(1100,	1450)	13.1065	11.6093	2.4304
	HUMIDITY	(64,	71)	(82,	85)	13.4038	11.9011	2.5335
	PRECIPITATION	(22,	39)	(128,	197)	12.7708	13.0453	.0689
	TEMPERATURE	(-4.2000,	-.2000)	(19.9000,	24.3000)	11.7580	13.7097	1.6051
	AMPD	(9.5700,	22.0900)	(130.8000,	394.0000)	10.7002	15.2865	20.6576*
23000313	ZIPCODE	(2158,	6877)	(91790,	98273)	20.9044	16.7879	12.3374*
	POPULATION	(300,	4061)	(535000,	3520000)	20.3242	16.1436	15.6486*
	SLOPE	(A1,	A2)	(C5,	D5)	16.8742	18.0971	.3312
	ELEVATION	(19,	35)	(1155,	2030)	19.5630	17.3904	.8622
	HUMIDITY	(1,	64)	(80,	87)	17.5251	18.7839	.9472
	PRECIPITATION	(0,	37)	(132,	165)	17.2148	18.6091	.3702
	TEMPERATURE	(-3.0000,	6.9000)	(22.3000,	24.7000)	17.0305	17.4800	.0438
	AMPD	(6.7900,	10.2200)	(38.2500,	580.0000)	15.7867	22.1412	12.7366*
23000323	ZIPCODE	(4011,	33494)	(93030,	98148)	26.0967	19.7766	10.2844*
	POPULATION	(200,	8000)	(174323,	700000)	24.4340	21.0464	1.4310
	SLOPE	(A1,	A2)	(C5,	C5)	21.8437	20.7199	.1339
	ELEVATION	(13,	50)	(900,	6748)	24.1355	20.2193	2.6746
	HUMIDITY	(1,	56)	(83,	87)	20.0263	18.7651	.4350
	PRECIPITATION	(0,	33)	(132,	192)	19.7324	21.8052	.5795
	TEMPERATURE	(-6.9000,	1.1000)	(22.3000,	27.3000)	18.2965	24.8460	9.3077*
	AMPD	(10.9300,	20.9700)	(49.4200,	243.0000)	18.9691	24.7980	4.0625*
24000911	ZIPCODE	(6040,	15775)	(82901,	98632)	12.3306	14.5639	3.7240
	POPULATION	(522,	2149)	(700000,	1600000)	15.6702	12.6505	5.5299*
	SLOPE	(A1,	A1)	(C5,	D6)	13.7129	14.1505	.1323
	ELEVATION	(5,	19)	(1539,	6271)	13.0048	14.7290	2.0989
	HUMIDITY	(49,	64)	(82,	87)	14.5370	10.2687	4.6898*
	PRECIPITATION	(10,	29)	(146,	182)	14.5639	13.2334	1.2312
	TEMPERATURE	(-6.9000,	-1.9000)	(23.2000,	26.4000)	12.0447	13.3994	1.1554
	AMPD	(5.4400,	14.9600)	(58.4600,	92.3700)	9.1898	15.0266	23.6529*
24500911	ZIPCODE	(11501,	24260)	(73044,	98499)	13.6769	12.7563	.3891
	POPULATION	(207,	460)	(1480000,	5600000)	15.0290	11.3279	8.5248*
	SLOPE	(A1,	A1)	(C4,	D5)	13.0301	14.7696	1.5734
	ELEVATION	(5,	17)	(1230,	3368)	10.8401	15.3350	14.6277*
	HUMIDITY	(61,	70)	(80,	83)	13.3753	12.6834	.1116
	PRECIPITATION	(9,	37)	(141,	179)	12.9121	13.4847	.2165
	TEMPERATURE	(.9000,	5.9000)	(24.1000,	27.3000)	13.2057	12.4841	.4429
	AMPD	(9.4800,	15.8900)	(82.8900,	188.5000)	11.2853	15.4210	8.5448*

Table 4-1. GM Fuel Economy Study
Harmonic Mean Fuel Economy Comparisons (N = 5) (Continued)

24501211	ZIPCODE	(1701,	15342)	(77015,	94553)	11.9896	13.0657	1.4618
	POPULATION	(200,	1878)	(540000,	3520000)	11.8540	12.5200	.7798
	SLOPE	(A1,	A1)	(C4,	D4)	10.8694	12.5764	1.9143
	ELEVATION	(11,	20)	(960,	1370)	11.7395	12.8537	1.3048
	HUMIDITY	(33,	67)	(79,	83)	13.3950	11.6223	3.9888*
	PRECIPITATION	(0,	41)	(156,	192)	13.4777	12.1312	3.0996
	TEMPERATURE	(3.8000,	5.9000)	(22.3000,	27.3000)	12.1254	12.6447	.3512
	AMPD	(11.5300,	15.4500)	(69.1000,	127.7500)	10.9549	14.4525	19.4170*
25251111	ZIPCODE	(7621,	11364)	(54303,	98020)	11.3563	13.4596	3.4440
	POPULATION	(125,	3308)	(222000,	560000)	12.5601	10.2454	11.8937*
	SLOPE	(A1,	A1)	(C4,	D4)	11.8740	9.8164	4.1104*
	ELEVATION	(7,	25)	(980,	1400)	12.3264	12.3249	.0927
	HUMIDITY	(65,	67)	(80,	85)	11.3449	11.9998	.4657
	PRECIPITATION	(21,	80)	(160,	222)	12.1275	12.1138	.0002
	TEMPERATURE	(-1.7000,	.3000)	(22.4000,	28.1000)	11.2689	13.5367	6.2802*
	AMPD	(13.2800,	17.4600)	(113.6000,	231.2500)	11.5852	13.8983	17.0018*
25251212	ZIPCODE	(1940,	14141)	(45662,	70072)	10.7513	12.3278	4.8562*
	POPULATION	(1212,	4174)	(100000,	925000)	11.4683	10.3905	.9392
	SLOPE	(A1,	B2)	(C4,	C5)	11.3766	10.8047	.2222
	ELEVATION	(20,	44)	(760,	1600)	10.5422	11.7375	1.4052
	HUMIDITY	(64,	68)	(80,	88)	10.9408	11.5316	.5132
	PRECIPITATION	(9,	71)	(143,	312)	12.4667	11.2043	2.8555
	TEMPERATURE	(-4.2000,	.3000)	(20.5000,	26.3000)	10.6825	12.4470	2.7100
	AMPD	(5.3800,	21.2900)	(65.4400,	101.7500)	9.7670	12.7991	13.6185*
34000711	ZIPCODE	(1824,	14617)	(68601,	98615)	14.9213	14.3762	.1573
	POPULATION	(527,	3452)	(223000,	560000)	15.9473	12.9100	12.2770*
	SLOPE	(A1,	A2)	(C3,	D6)	14.1536	14.3598	.0146
	ELEVATION	(18,	102)	(951,	2146)	14.0345	14.7841	.8726
	HUMIDITY	(66,	70)	(80,	84)	14.1649	14.0564	.0037
	PRECIPITATION	(15,	37)	(154,	183)	14.4355	14.4657	.0006
	TEMPERATURE	(-3.6000,	5.9000)	(23.2000,	26.4000)	13.7300	13.9943	.0608
	AMPD	(7.0700,	14.2600)	(44.3300,	133.0000)	12.3139	16.3375	13.1852*
34501011	ZIPCODE	(21530,	28779)	(75231,	81501)	14.0492	14.9141	3.9464*
	POPULATION	(165,	971)	(378000,	850000)	14.9229	14.7799	.0320
	SLOPE	(A1,	A1)	(C4,	D5)	12.9581	12.9873	.0005
	ELEVATION	(5,	257)	(1289,	4596)	12.5364	14.7003	5.6176*
	HUMIDITY	(33,	67)	(79,	80)	14.2611	12.9499	.8408
	PRECIPITATION	(11,	50)	(139,	287)	13.0555	14.0777	.5072
	TEMPERATURE	(3.9000,	5.6000)	(27.1000,	27.6000)	13.2832	14.4069	2.2569
	AMPD	(7.9400,	16.0600)	(54.8500,	72.4400)	13.2726	14.9389	3.6839
35251012	ZIPCODE	(1844,	7090)	(49779,	79701)	14.1294	13.6975	.5853
	POPULATION	(110,	1500)	(345000,	560000)	14.5963	13.6204	.6794
	SLOPE	(A1,	A1)	(C4,	D4)	13.7221	12.5491	1.0827
	ELEVATION	(7,	35)	(1060,	2779)	13.4046	13.3462	.0045
	HUMIDITY	(52,	65)	(80,	91)	12.9948	12.1822	.4141
	PRECIPITATION	(14,	61)	(163,	180)	14.3625	13.8080	1.1829
	TEMPERATURE	(-1.7000,	.3000)	(26.0000,	27.5000)	11.6726	14.1102	9.2455*
	AMPD	(5.6700,	10.9800)	(106.3800,	276.5000)	11.4701	14.9270	16.0766*
35501411	ZIPCODE	(1603,	6770)	(77376,	99336)	13.4617	11.5150	3.0095
	POPULATION	(400,	1000)	(844401,	8080000)	13.9703	10.7767	15.9801*
	SLOPE	(A1,	A1)	(B5,	C5)	11.6949	11.6979	.0000
	ELEVATION	(9,	30)	(1206,	3100)	10.9335	11.4036	.0770
	HUMIDITY	(16,	64)	(80,	91)	11.4050	12.2899	.9361

Table 4-1. GM Fuel Economy Study
Harmonic Mean Fuel Economy Comparisons (N = 5) (Concluded)

	PRECIPITATION	(0,	30)	(153,	239)	11.3837	13.1160	1.0556
	TEMPERATURE	(-1.9000,	-.7000)	(27.2000,	30.3000)	13.2836	12.0237	3.0306
	AMPD	(13.1800,	14.3000)	(92.2200,	147.8300)	11.6428	14.0341	7.0102*
35501412	ZIPCODE	(11545,	13656)	(75220,	81625)	10.8282	11.5498	.2406
	POPULATION	(120,	2283)	(540325,	844401)	12.9182	10.2350	18.8188*
	SLOPE	(A1,	A2)	(C3,	D5)	9.6979	9.9427	.0305
	ELEVATION	(20,	381)	(1176,	6186)	10.2928	11.2647	.3653
	HUMIDITY	(54,	67)	(83,	91)	11.1289	12.2430	.5796
	PRECIPITATION	(3,	21)	(146,	160)	11.7685	10.3419	1.2437
	TEMPERATURE	(-4.7000,	-2.8000)	(23.1000,	27.2000)	12.0481	10.5476	2.6251
	AMPD	(5.7300,	11.6200)	(131.3300,	461.5000)	9.7392	14.3875	40.9741*
44500912	ZIPCODE	(1501,	5495)	(55109,	77007)	12.4244	12.7264	.0582
	POPULATION	(336,	3187)	(925000,	8080000)	13.2751	11.4320	2.7897
	SLOPE	(A1,	A1)	(B4,	C4)	12.1147	10.7600	.5023
	ELEVATION	(6,	19)	(937,	1700)	11.2962	11.9960	.1742
	HUMIDITY	(62,	65)	(77,	85)	11.5164	11.4746	.0009
	PRECIPITATION	(53,	90)	(163,	203)	13.1700	11.0967	1.6335
	TEMPERATURE	(-2.9000,	-.2000)	(22.4000,	26.7000)	12.0096	13.0427	1.1080
	AMPD	(8.1300,	13.7900)	(57.7500,	112.2000)	10.2610	13.6297	4.4944*
45001413	ZIPCODE	(1801,	7960)	(78332,	99208)	10.4338	9.8165	.8331
	POPULATION	(145,	2050)	(222000,	758000)	10.8547	12.5440	3.1799
	SLOPE	(A1,	A2)	(C4,	D4)	12.4197	10.6183	6.4622*
	ELEVATION	(7,	160)	(1230,	2216)	11.4641	9.9249	1.8146
	HUMIDITY	(44,	70)	(82,	88)	9.8737	11.0199	2.6636
	PRECIPITATION	(4,	41)	(152,	192)	10.4751	10.8133	.1019
	TEMPERATURE	(-.8000,	-.7000)	(21.6000,	26.7000)	10.7225	12.3815	5.8324*
	AMPD	(11.2400,	20.4200)	(70.8900,	163.6000)	9.6065	13.2084	61.4015*
45251014	ZIPCODE	(11758,	14226)	(78629,	92335)	9.5235	10.8677	1.1564
	POPULATION	(250,	650)	(3000000,	3000000)	11.9252	11.3092	.2413
	SLOPE	(A1,	A1)	(B3,	D6)	12.6262	12.3020	.1163
	ELEVATION	(20,	200)	(1097,	4061)	12.8949	10.9197	3.3797
	HUMIDITY	(53,	72)	(88,	91)	11.8268	9.8343	2.2958
	PRECIPITATION	(0,	46)	(152,	189)	11.7918	11.2552	.2871
	TEMPERATURE	(-4.2000,	-2.0000)	(25.7000,	27.2000)	11.7314	10.8111	1.0234
	AMPD	(8.4800,	11.2400)	(134.1700,	314.5000)	9.0610	14.8064	24.3634*
45501412	ZIPCODE	(1970,	6450)	(85252,	94702)	11.0318	11.6882	.3177
	POPULATION	(140,	1033)	(850000,	3000000)	11.4789	9.3082	4.1978*
	SLOPE	(A1,	A1)	(C4,	D5)	10.4895	9.8972	.3750
	ELEVATION	(5,	24)	(1250,	3800)	10.0034	11.7353	6.3419*
	HUMIDITY	(16,	65)	(84,	88)	12.6733	10.8242	6.7738*
	PRECIPITATION	(0,	8)	(179,	312)	11.6882	9.7726	2.6623
	TEMPERATURE	(-8.1000,	-1.7000)	(26.0000,	30.3000)	11.2559	11.9062	.3509
	AMPD	(12.5100,	16.7900)	(132.8000,	432.0000)	9.0181	12.7623	29.1816*
65501512	ZIPCODE	(1940,	7712)	(94086,	95825)	10.3809	11.1190	.5651
	POPULATION	(600,	1600)	(2750000,	8080000)	11.5849	10.3444	1.1743
	SLOPE	(A1,	A1)	(C5,	D4)	11.1129	10.4033	.4418
	ELEVATION	(10,	25)	(2726,	4498)	10.8296	10.6623	.0239
	HUMIDITY	(39,	51)	(83,	88)	10.9149	12.4120	4.2688*
	PRECIPITATION	(0,	1)	(182,	192)	10.0556	10.2291	.0289
	TEMPERATURE	(-1.9000,	-.4000)	(26.7000,	28.6000)	10.9527	11.0414	.0087
	AMPD	(5.0400,	11.8600)	(84.2900,	742.0000)	8.7383	12.4078	36.2664*

Table 4-2. GM Fuel Economy Study
Harmonic Mean Fuel Economy Comparisons (N = 10)

DATE 81276
SALES WEIGHTED NO
NUMBER OF CARS IN PARAMETER RANGE 1 10
NUMBER OF CARS IN PARAMETER RANGE 2 10
CRITICAL VALUE OF TEST STATISTIC AT .05 SIGNIFICANCE LEVEL = 3.84146

CLASS	PARAMETER	RANGE1		RANGE2		MEAN MPG1	MEAN MPG2	TEST STATISTIC
13000313	ZIPCODE	(2828,	48135)	(72820,	99169)	20.1532	18.5535	1.8556
	POPULATION	(120,	13100)	(100000,	3000000)	19.4737	19.5621	.0257
	SLOPE	(A1,	B2)	(B3,	D4)	18.8957	18.5533	.0046
	ELEVATION	(25,	250)	(660,	7300)	18.5269	19.0231	.1348
	HUMIDITY	(56,	70)	(76,	88)	19.4426	19.0763	.3668
	PRECIPITATION	(9,	56)	(97,	203)	18.3510	20.1598	2.7878
	TEMPERATURE	(-4.2000,	6.9000)	(19.5000,	26.7000)	19.3855	19.6875	.2314
	AMPD	(9.5200,	30.1000)	(37.5300,	92.5000)	16.6920	21.6056	37.6459*
13000323	ZIPCODE	(14467,	77546)	(34601,	99207)	22.9769	21.3620	1.0491
	POPULATION	(150,	35500)	(54000,	5350000)	22.6789	22.1124	.3807
	SLOPE	(A1,	B3)	(B6,	D5)	22.5172	21.8891	.1.15
	ELEVATION	(12,	660)	(1133,	5300)	21.9349	22.2994	.0738
	HUMIDITY	(1,	70)	(72,	88)	22.4327	22.6185	.0112
	PRECIPITATION	(0,	42)	(65,	154)	21.2025	23.1699	1.5671
	TEMPERATURE	(-2.4000,	9.2000)	(13.2000,	24.1000)	21.2630	23.0271	1.0194
	AMPD	(9.6300,	36.0000)	(42.4200,	608.0000)	19.6802	29.3523	17.5517*
14000612	ZIPCODE	(4048,	18704)	(49279,	98466)	15.0894	15.8953	.5108
	POPULATION	(450,	19000)	(100000,	7950000)	15.6063	15.5334	.0234
	SLOPE	(A1,	A2)	(B3,	D4)	15.4141	14.6792	.4773
	ELEVATION	(9,	406)	(760,	1740)	16.1140	13.8599	5.3013*
	HUMIDITY	(62,	72)	(78,	90)	15.5927	14.4537	1.1088
	PRECIPITATION	(9,	82)	(118,	222)	13.8158	15.8407	3.6431
	TEMPERATURE	(-4.2000,	1.7000)	(20.6000,	28.1000)	12.8285	16.2910	14.6580*
	AMPD	(8.2000,	25.2100)	(33.4300,	57.2100)	13.2894	16.6249	13.2809*
14000912	ZIPCODE	(11367,	19151)	(60521,	84015)	11.3549	13.1126	5.5908*
	POPULATION	(161,	12900)	(361700,	3000000)	14.4233	11.6326	11.6094*
	SLOPE	(A1,	A2)	(B3,	D4)	13.1313	12.4771	.4936
	ELEVATION	(10,	326)	(1030,	5280)	12.0031	12.7749	.9665
	HUMIDITY	(54,	70)	(81,	90)	12.1936	12.4238	.0591
	PRECIPITATION	(7,	61)	(104,	162)	12.4536	13.8534	2.5374
	TEMPERATURE	(-4.2000,	-.3000)	(12.6000,	27.5000)	12.3752	14.0149	3.1075
	AMPD	(9.3500,	15.9200)	(36.8800,	107.8300)	10.9750	13.9519	19.3263*
14000912	ZIPCODE	(2052,	15219)	(76031,	99802)	11.8078	11.8559	.0023
	POPULATION	(189,	956)	(500000,	3520000)	14.1579	12.5624	31.2773*
	SLOPE	(A1,	A2)	(C3,	D6)	12.0602	12.8169	.6098
	ELEVATION	(10,	170)	(1015,	6008)	11.5985	12.2344	.3188
	HUMIDITY	(47,	68)	(85,	91)	11.7871	11.4526	.0864
	PRECIPITATION	(9,	43)	(149,	203)	12.1239	13.1186	1.2073

Table 4-2. GM Fuel Economy Study
Harmonic Mean Fuel Economy Comparisons (N = 10) (Continued)

	TEMPERATURE	(-5.4000,	-.9000)	(24.1000,	27.5000)	11.3515	12.4053	1.6601
	AMPD	(6.2400,	12.9000)	(58.1800,	270.0000)	10.3721	13.8046	23.4513*
15250914	ZIPCODE	(4231,	25312)	(60438,	97411)	11.4969	11.6982	.6936
	POPULATION	(200,	3000)	(100000,	3000000)	12.6634	11.5121	2.5654
	SLOPE	(A1,	A2)	(B2,	D5)	11.8748	11.9331	.0584
	ELEVATION	(10,	200)	(757,	1680)	11.7148	12.6772	2.5165
	HUMIDITY	(65,	72)	(82,	91)	11.7314	11.6338	.0174
	PRECIPITATION	(3,	60)	(117,	222)	11.9538	12.0158	.0128
	TEMPERATURE	(-4.7000,	-.4000)	(21.8000,	28.1000)	11.7822	12.0154	.1684
	AMPD	(9.8100,	17.3900)	(33.3900,	151.2500)	11.4454	12.9547	5.1259*
15251212	ZIPCODE	(14055,	37076)	(50034,	97470)	11.9294	12.4026	.3294
	POPULATION	(100,	3400)	(37608,	3600000)	12.2675	12.1122	.0270
	SLOPE	(A1,	B2)	(C2,	D5)	12.0949	12.7456	.5791
	ELEVATION	(40,	591)	(870,	1450)	12.4773	12.5618	.0079
	HUMIDITY	(64,	74)	(77,	85)	12.6638	11.5821	1.7400
	PRECIPITATION	(22,	90)	(113,	197)	11.6420	13.1451	2.8971
	TEMPERATURE	(-4.2000,	1.9000)	(6.2000,	24.3000)	12.0132	13.5518	3.6649
	AMPD	(9.5700,	35.3800)	(49.2200,	394.0000)	11.2472	13.5323	6.3346*
23000313	ZIPCODE	(2158,	30310)	(89109,	98273)	19.2497	18.0872	1.0214
	POPULATION	(300,	10006)	(110642,	3520000)	20.2486	16.7851	24.7006*
	SLOPE	(A1,	B2)	(C4,	D5)	17.4517	18.5229	.6868
	ELEVATION	(19,	287)	(744,	2030)	18.4884	17.0887	1.1970
	HUMIDITY	(1,	66)	(74,	87)	18.3732	18.4937	.0128
	PRECIPITATION	(0,	60)	(118,	165)	17.4595	19.3982	1.7253
	TEMPERATURE	(-3.0000,	13.2000)	(20.6000,	24.7000)	16.9098	19.2287	1.2380
	AMPD	(6.7900,	17.8300)	(33.5000,	580.0000)	16.5895	20.8372	16.0464*
23000323	ZIPCODE	(4011,	52402)	(90731,	98148)	24.2318	20.3083	11.5727*
	POPULATION	(200,	7900)	(100000,	7000000)	22.4398	21.2016	.4473
	SLOPE	(A1,	B2)	(B3,	C5)	21.2114	21.8093	.1200
	ELEVATION	(13,	282)	(694,	6748)	22.7516	21.7862	.2930
	HUMIDITY	(1,	68)	(75,	87)	21.0902	20.8187	.0260
	PRECIPITATION	(0,	57)	(65,	192)	19.7528	23.1533	4.0040*
	TEMPERATURE	(-6.9000,	13.2000)	(18.1000,	27.3000)	19.0755	24.1892	16.4937*
	AMPD	(10.9300,	26.3000)	(38.8100,	243.0000)	19.7592	23.3419	5.1578*
24000911	ZIPCODE	(6040,	21061)	(73651,	98632)	12.1645	14.1920	4.9848*
	POPULATION	(522,	7000)	(160000,	1600000)	14.7725	12.7464	5.6126*
	SLOPE	(A1,	A1)	(B5,	D6)	12.7239	13.5161	.7861
	ELEVATION	(5,	57)	(895,	6271)	13.2772	14.2461	1.8397
	HUMIDITY	(49,	67)	(80,	87)	14.1143	11.4867	4.4332*
	PRECIPITATION	(10,	44)	(117,	182)	12.6549	13.2184	.1392
	TEMPERATURE	(-6.9000,	4.2000)	(21.9000,	26.4000)	10.8059	13.7507	7.7142*
	AMPD	(5.4400,	18.3800)	(45.2900,	92.3700)	10.9246	15.2366	15.3325*
24500911	ZIPCODE	(11501,	29607)	(53095,	98499)	13.4020	12.7548	.3059
	POPULATION	(207,	1521)	(100000,	5600000)	14.6284	11.4343	13.9448*
	SLOPE	(A1,	A1)	(B3,	D5)	12.2674	14.0782	6.2296*
	ELEVATION	(5,	57)	(1000,	3368)	11.4668	14.9055	15.9798*
	HUMIDITY	(61,	71)	(78,	83)	12.9339	12.6986	.0464
	PRECIPITATION	(9,	64)	(124,	179)	12.4635	12.7446	.0785
	TEMPERATURE	(.9000,	8.9000)	(20.6000,	27.3000)	13.0005	13.4198	.2556
	AMPD	(9.4800,	20.0000)	(64.2200,	188.5000)	11.8577	15.3042	17.5253*

Table 4-2. GM Fuel Economy Study
Harmonic Mean Fuel Economy Comparisons (N = 10) (Continued)

24501211	ZIPCODE	(17.1,	28677)	(48239,	94553)	12.3545	12.8553	.0815
	POPULATION	(230,	7467)	(138000,	352000)	12.5117	12.4237	.2176
	SLOPE	(A1,	A1)	(B3,	D4)	11.6619	12.1647	.4301
	ELEVATION	(11,	55)	(700,	1370)	12.2418	12.0248	.0907
	HUMIDITY	(33,	70)	(78,	83)	12.7478	11.6098	3.2834
	PRECIPITATION	([illegible],	51)	(131,	192)	12.2450	12.4872	.1577
	TEMPERATURE	(3.8000,	8.5000)	(21.8000,	27.3000)	12.3577	12.3445	.0007
	AMPD	(11.5300,	19.7400)	(49.3300,	127.7500)	11.3.44	14.1254	27.9891*
25251111	ZIPCODE	(7621,	15126)	(48153,	98.20)	11.5702	12.8539	3.0216
	POPULATION	(125,	8853)	(100000,	560000)	13.1450	11.1906	8.8912*
	SLOPE	(A1,	A2)	(B3,	C4)	11.8401	12.9982	1.2875
	ELEVATION	(7,	66)	(880,	1400)	11.9873	12.2125	.0760
	HUMIDITY	(65,	72)	(77,	85)	11.7203	12.7042	2.0103
	PRECIPITATION	(21,	94)	(134,	222)	12.3874	12.7924	.2865
	TEMPERATURE	(-1.7000,	3.8000)	(21.8000,	28.1000)	10.7424	12.9913	11.0352*
	AMPD	(13.2800,	21.1510)	(45.1300,	231.2500)	11.3701	13.6331	13.8009*
25251212	ZIPCODE	(1940,	19050)	(21224,	76072)	10.7416	11.8503	2.3717
	POPULATION	(1212,	26200)	(100000,	925000)	11.7242	10.7924	1.7328
	SLOPE	(A1,	B2)	(B3,	D5)	11.2063	11.1876	.0006
	ELEVATION	(20,	226)	(640,	1600)	10.9756	11.6379	.7351
	HUMIDITY	(64,	74)	(75,	89)	11.3518	11.6384	.1943
	PRECIPITATION	(9,	102)	(103,	312)	11.5242	11.2575	.1153
	TEMPERATURE	(-4.2000,	4.1000)	(6.2000,	26.3000)	10.9960	11.8915	1.7611
	AMPD	(5.3800,	30.4000)	(45.0300,	101.7500)	10.3284	12.5554	18.2681*
34000711	ZIPCODE	(1824,	28739)	(54880,	98615)	14.6829	14.3521	.0971
	POPULATION	(527,	17000)	(100000,	560000)	14.8717	13.9185	1.1353
	SLOPE	(A1,	B2)	(B3,	D6)	14.3779	14.9757	.2306
	ELEVATION	(18,	570)	(730,	2146)	14.6679	14.1460	.3165
	HUMIDITY	(66,	71)	(77,	84)	13.8866	14.9218	.9304
	PRECIPITATION	(15,	54)	(134,	183)	15.2247	14.1055	1.4478
	TEMPERATURE	(-3.6000,	18.7000)	(21.6000,	26.4000)	14.8163	14.5327	.0937
	AMPD	(7.5700,	21.9300)	(37.1700,	133.0000)	12.8549	15.7993	13.1760*
34501011	ZIPCODE	(21536,	33317)	(55421,	81501)	13.2899	14.5737	4.4476*
	POPULATION	(165,	2661)	(198000,	850000)	14.6642	13.8546	1.5381
	SLOPE	(A1,	A2)	(B3,	D5)	14.3924	13.2228	1.3259
	ELEVATION	(5,	512)	(900,	4596)	13.5074	14.0927	.6664
	HUMIDITY	(33,	72)	(76,	80)	14.3498	13.9289	.2162
	PRECIPITATION	(11,	72)	(119,	287)	13.4097	14.0536	.6286
	TEMPERATURE	(3.9000,	10.3000)	(22.6000,	27.6000)	12.8556	14.2603	10.6592*
	AMPD	(7.9400,	22.2900)	(45.5000,	72.4400)	12.4979	14.8633	19.5236*
35251012	ZIPCODE	(1844,	13950)	(43736,	79701)	13.9504	13.2866	.9876
	POPULATION	(110,	4462)	(216000,	560000)	14.1252	13.9405	.0595
	SLOPE	(A1,	A2)	(C4,	D4)	13.6483	12.9833	1.0069
	ELEVATION	(7,	73)	(889,	2779)	13.2375	12.8201	.3132
	HUMIDITY	(52,	66)	(78,	91)	13.1479	12.4064	.7343
	PRECIPITATION	(14,	71)	(160,	180)	13.7246	13.7480	.0028
	TEMPERATURE	(-1.7000,	3.8000)	(22.0000,	27.5000)	11.7827	14.1203	19.5506*
	AMPD	(5.6700,	14.7200)	(64.9000,	276.5000)	11.8826	14.8867	28.8691*
35501411	ZIPCODE	(1623,	8534)	(75069,	99336)	11.4106	12.0789	.4312
	POPULATION	(400,	8400)	(305000,	8080000)	13.5298	11.5610	7.4384*
	SLOPE	(A1,	A2)	(B3,	C5)	11.3206	12.1414	.7211
	ELEVATION	(9,	55)	(850,	3100)	11.3663	12.2014	.6123
	HUMIDITY	(16,	64)	(77,	91)	11.8771	12.8737	2.3003

Table 4-2. GM Fuel Economy Study
Harmonic Mean Fuel Economy Comparisons (N = 10) (Concluded)

	PRECIPITATION	(0,	50)	(145,	239)	11.9026	13.1320	1.5654
	TEMPERATURE	(-1.9000,	1.9000)	(25.9000,	30.3000)	12.5183	12.1819	.1906
	AMPD	(13.1800,	20.0800)	(85.3800,	147.8300)	11.4979	14.0445	18.0423*
35501412	ZIPCODE	(11545,	37220)	(67401,	81625)	10.4914	12.0357	2.0772
	POPULATION	(120,	4205)	(330000,	844400)	13.0673	11.1845	8.5110*
	SLOPE	(A1,	A2)	(B3,	D5)	10.6032	11.3515	.4271
	ELEVATION	(20,	550)	(1011,	6186)	10.8961	10.9129	.0002
	HUMIDITY	(54,	70)	(82,	91)	11.0861	11.6086	.4153
	PRECIPITATION	(3,	42)	(112,	160)	11.9257	11.1359	1.0144
	TEMPERATURE	(-4.7000,	-1.2000)	(21.4000,	27.2000)	11.6673	11.2591	.4069
	AMPD	(5.7300,	17.1800)	(60.3000,	461.5000)	10.6360	13.5274	14.8449*
44500912	ZIPCODE	(1501,	7642)	(43085,	77007)	11.6913	12.5159	.4705
	POPULATION	(336,	7673)	(100000,	8080000)	13.3534	11.4485	3.9920*
	SLOPE	(A1,	A2)	(B3,	C4)	11.5427	11.8206	.0449
	ELEVATION	(6,	50)	(690,	1790)	11.4851	12.5641	1.2016
	HUMIDITY	(62,	68)	(76,	85)	10.9855	11.4235	.1520
	PRECIPITATION	(53,	102)	(160,	203)	11.7577	10.9383	.4325
	TEMPERATURE	(-2.9000,	3.8000)	(21.0000,	26.7000)	11.2940	12.2498	.7575
	AMPD	(8.1300,	17.3100)	(38.6700,	112.2000)	10.1849	13.5961	18.6750*
45001413	ZIPCODE	(1801,	28813)	(68506,	99208)	10.7875	10.9771	.0860
	POPULATION	(145,	10503)	(100000,	758000)	10.9357	11.3562	.4157
	SLOPE	(A1,	A2)	(B3,	C4)	11.1122	10.6178	.5257
	ELEVATION	(7,	289)	(1035,	2216)	11.1485	10.6157	.5217
	HUMIDITY	(44,	72)	(81,	88)	10.4002	10.6665	.1907
	PRECIPITATION	(4,	70)	(123,	192)	10.6426	10.9022	.1257
	TEMPERATURE	(-.8000,	.3000)	(11.8000,	26.7000)	10.5105	12.2379	8.1765*
	AMPD	(11.2400,	22.9200)	(46.1100,	163.6000)	9.8830	12.5630	47.3966*
45251014	ZIPCODE	(11758,	38917)	(51701,	92335)	11.0008	10.9498	.0023
	POPULATION	(250,	3500)	(540025,	3000000)	11.2837	11.8389	.4923
	SLOPE	(A1,	A2)	(B2,	D6)	11.8629	11.3837	.9000
	ELEVATION	(20,	420)	(880,	4061)	11.9880	11.2503	1.0923
	HUMIDITY	(53,	75)	(85,	91)	11.9305	9.9363	4.2277*
	PRECIPITATION	(0,	49)	(146,	189)	11.2318	11.4052	.0511
	TEMPERATURE	(-4.2000,	-1.9000)	(22.8000,	27.2000)	11.8826	11.6461	.1196
	AMPD	(8.4800,	13.0500)	(59.8600,	314.5000)	9.5269	13.8320	30.4751*
45501412	ZIPCODE	(1970,	12148)	(71075,	94702)	10.7566	11.9426	3.1613
	POPULATION	(140,	3747)	(131711,	3000000)	11.4479	9.8451	3.7418
	SLOPE	(A1,	A1)	(B4,	D5)	10.2718	10.8227	.6808
	ELEVATION	(5,	42)	(885,	3800)	10.4549	11.6302	4.3809*
	HUMIDITY	(16,	68)	(83,	88)	12.6501	10.1401	13.4464*
	PRECIPITATION	(0,	37)	(124,	312)	11.0968	10.1328	1.7786
	TEMPERATURE	(-8.1000,	-.4000)	(23.4000,	30.3000)	10.9362	11.8108	1.5989
	AMPD	(12.9100,	20.1400)	(74.1100,	432.0000)	9.3925	12.7579	51.2510*
65501512	ZIPCODE	(1940,	15137)	(91803,	95825)	10.7208	11.2272	.4611
	POPULATION	(600,	3570)	(850000,	8080000)	11.4632	10.8166	.7938
	SLOPE	(A1,	A1)	(C3,	D4)	11.0055	11.1387	.0274
	ELEVATION	(10,	35)	(920,	4498)	11.0241	11.0350	.0003
	HUMIDITY	(39,	66)	(82,	88)	10.4997	11.7710	2.5627
	PRECIPITATION	(0,	5)	(156,	192)	10.7446	10.5454	.0721
	TEMPERATURE	(-1.9000,	.5000)	(24.0000,	28.6000)	11.6794	11.0286	1.1701
	AMPD	(5.0400,	15.3400)	(65.0000,	742.0000)	8.9908	12.4756	42.1721*

due to terrain. For locations in which more than 80 percent of the area is gently sloping (Slope = A), fuel economy for this class was found to be significantly less than for locations in which less than 80 percent of the area is gently sloping (Slope ranges from B to D). This example illustrates one of the reasons it was decided to generate scatter plots of individual car fuel economy versus values of each of the eight parameters under investigation for each carline class. Such plots not only illustrate trends, but can also be used to explain anomalous results. Such a plot for fuel economy versus the terrain index (Slope) for carline Class 24500911 is given in Appendix B (along with all of the other scatter plots). Note that the correlation coefficient for these data is equal to 0.1825. However, since the 95-percent confidence interval for this coefficient (refer to the figure) contains zero, the correlation is not significant. That is, while examining extremes in the data may result in significant differences in mean fuel economy, the data itself do not exhibit any significant trend.

The only carline class that did not exhibit a significant correlation coefficient with respect to AMPD was Class 23000313 (see Appendix B). Note, however, that this was due to a single car where fuel economy was unusually low for the relatively high miles per day traveled.

A detailed analysis was not made of significant differences in fuel economy with respect to those parameters (such as elevation) that occurred infrequently. It was noted, however, that in all four carline classes in which fuel economy increased significantly with increasing zip code, the mean value for average miles per day traveled by those drivers located in high zip code areas was substantially higher than the mean value for average miles per day traveled by drivers located in low zip code areas.

Next to AMPD, differences in mean fuel economy with respect to population occurred most frequently (nine carline classes, refer to Table 4-2). In all nine cases, fuel economy in densely populated areas was found to be significantly less than fuel economy in sparsely populated areas. In four of these carline classes, the data exhibited a significant negative

correlation (Appendix B), confirming the tests for differences between fuel economies in extreme population ranges. However, in all but two of the nine classes, it was also found that the mean value for AMPD in the densely populated areas was substantially less than in the sparsely populated areas. In the remaining two classes, the mean value for AMPD was actually greater in the heavily populated areas. Both AMPD and urban versus highway driving conditions associated with the population density of the area in which the car was driven have an effect on fuel economy. In order to determine whether population effects related to driving conditions are affecting the fuel economy of the carline classes in this study, a larger data base is required that would provide a sufficient number of cars per class so that two-way statistical tests could be performed.

Next to population, differences in mean fuel economy with respect to temperature occurred most frequently (seven carline classes, refer to Table 4-2). In all seven cases, fuel economy in a warm climate was found to be significantly greater than fuel economy in a cool climate. In all seven carline classes, the data exhibited a significant positive correlation (Appendix B), confirming the tests for differences between fuel economies in extreme temperature ranges. Again, however, AMPD was consistently higher in the warm climate areas. In four cases, the difference in AMPD could easily account for the increased fuel economy. A larger data base is required to determine whether it is temperature or AMPD that is the dominant factor influencing fuel economy for these carline classes. It would not be surprising to find an increase in fuel economy in a warm climate because of the reduction in time intervals associated with engine warmup.

4.2 DIVISION AND FLEET SALES WEIGHTED MEAN FUEL ECONOMY COMPARISONS

Division and fleet sales weighted harmonic mean fuel economies are listed in Tables 4-3 and 4-4. These values were computed using the formulas of Appendix C. The trends, of course, are the same as those

exhibited by the carline classes. That is, fuel economy apparently increases with increasing average miles per day and temperature, and decreases with increasing population. As indicated in Section 4.1, however, further analysis is required before it can be concluded that temperature and population are influencing the fuel economy of these carline classes rather than average miles per day.

Table 4-3. GM Fuel Economy Study
Division Sales Weighted Harmonic Mean Fuel Economy Comparisons

DATE 81676
SALES WEIGHTED YES

NUMBER OF CARS IN PARAMETER RANGE 1 100
NUMBER OF CARS IN PARAMETER RANGE 2 100

DIVISION	PARAMETER	SWMPG1	SWMPG2	RANGE 1		RANGE 2	
1	ZIPCODE	12.8968	13.1448	(2052,	40201)	(53213,	99802)
	POPULATION	13.8469	12.6206	(100,	16500)	(100000,	3520000)
	SLOPE	12.9469	12.9966	(A1,	B2)	(B2,	D6)
	ELEVATION	13.1508	13.2294	(9,	544)	(745,	7300)
	HUMIDITY	13.2248	12.7368	(1,	73)	(76,	91)
	PRECIPITATION	12.7795	13.5126	(0,	72)	(103,	222)
	TEMPERATURE	12.3412	14.0209	(-5.4000,	4.)	(16.4000,	28.1000)
	AMPD	11.7962	14.2534	(6.2400,	24.)	(35.3000,	608.0000)

NUMBER OF CARS IN PARAMETER RANGE 1 96
NUMBER OF CARS IN PARAMETER RANGE 2 96

DIVISION	PARAMETER	SWMPG1	SWMPG2	RANGE 1		RANGE 2	
2	ZIPCODE	13.0954	13.8334	(1701,	32650)	(48221,	98632)
	POPULATION	14.0723	12.7273	(125,	20800)	(100000,	3520000)
	SLOPE	13.2171	13.3896	(A1,	A2)	(B2,	D6)
	ELEVATION	13.1569	13.5151	(5,	287)	(690,	6748)
	HUMIDITY	13.2902	13.3400	(1,	72)	(76,	88)
	PRECIPITATION	13.4553	13.5028	(0,	74)	(103,	312)
	TEMPERATURE	12.8400	13.8642	(-6.9000,	13.)	(19.8000,	28.1000)
	AMPD	12.2477	14.6989	(5.3800,	26.)	(36.6700,	580.0000)

NUMBER OF CARS IN PARAMETER RANGE 1 80
NUMBER OF CARS IN PARAMETER RANGE 2 80

DIVISION	PARAMETER	SWMPG1	SWMPG2	RANGE 1		RANGE 2	
3	ZIPCODE	12.9482	14.1830	(1603,	27612)	(48197,	99336)
	POPULATION	14.0249	13.0969	(110,	20000)	(100000,	8080000)
	SLOPE	13.5157	12.9768	(A1,	B2)	(B2,	D6)
	ELEVATION	12.6785	13.3728	(5,	406)	(720,	6186)
	HUMIDITY	13.2898	13.4654	(16,	71)	(76,	91)
	PRECIPITATION	13.2018	13.2221	(0,	72)	(115,	287)
	TEMPERATURE	12.5193	14.0356	(-4.7000,	5.)	(20.9000,	30.3000)
	AMPD	12.0319	14.4567	(5.6700,	24.)	(42.3900,	461.5000)

Table 4-3. GM Fuel Economy Study
Division Sales Weighted Harmonic Mean Fuel Economy Comparisons (Continued)

NUMBER OF CARS IN PARAMETER RANGE 1 104
NUMBER OF CARS IN PARAMETER RANGE 2 104

DIVISION	PARAMETER	SWMPG1	SWMPG2	RANGE 1		RANGE 2	
4	ZIPCODE	11.1071	11.6126	(1501,	45304)	(48055,	99208)
	POPULATION	11.5752	11.0902	(140,	52500)	(100000,	8080000)
	SLOPE	11.2656	11.3878	(A1,	A2)	(82,	D6)
	ELEVATION	11.0898	11.7514	(5,	595)	(620,	4061)
	HUMIDITY	11.6737	10.8396	(16,	76)	(78,	91)
	PRECIPITATION	11.7359	11.3494	(0,	80)	(102,	312)
	TEMPERATURE	10.9289	11.6385	(-8.1000,	4.)	(4.8000,	30.3000)
	AMPD	10.4317	12.5228	(8.1300,	28.)	(32.2100,	432.3000)

Table 4-4. GM Fuel Economy Study
Fleet Sales Weighted Harmonic Mean Fuel Economy Comparisons

DATE 81676
SALES WEIGHTED YES
NUMBER OF CARS IN PARAMETER RANGE 1 480
NUMBER OF CARS IN PARAMETER RANGE 2 480

FLEET	PARAMETER	SWMPG1	SWMPG2	RANGE 1		RANGE 2	
1	ZIPCODE	12.6176	13.1942	(1501,	43008)	(47371,	99802)
	POPULATION	13.4052	12.4336	(100,	52500)	(100000,	8080000)
	SLOPE	12.8449	12.9609	(A1,	82)	(B2,	06)
	ELEVATION	12.8233	13.0280	(5,	590)	(620,	7300)
	HUMIDITY	13.0696	12.5846	(1,	74)	(75,	91)
	PRECIPITATION	12.7942	12.9284	(0,	82)	(101,	312)
	TEMPERATURE	12.2497	13.5669	(-8.1000,	8.)	(15.9000,	30.3000)
	AMPD	11.8914	14.0325	(5.0400,	29.)	(33.3900,	742.0000)

APPENDIX A

LISTING OF DATA BASE

APPENDIX A

LISTING OF DATA BASE

This appendix contains two tables. Included in Table A-1 is a partial listing of the original GM data supplied by the EPA Project Officer for each car that was used in this study. The seasonal, topographical, and geographical data that were either computed directly from data in Table A-1 or acquired from the literature are included in Table A-2.

Table A-1. GM Data Base Listing (Vehicle Data)

NUMBER	DIVISION	MPG	BODY TYPE	CID-BBL	AXLE RATIO	TRANS.	CITY	STATE	ZIP
1	4.	15.06	9.	9.	2.	1.	LUNENBURG	MA	1462
2	4.	13.35	1.	9.	2.	1.	AUBURN	MA	1501
3	3.	14.52	3.	14.	1.	1.	WORCESTER	MA	1603
4	4.	10.22	5.	14.	3.	1.	WOBURN	MA	1801
5	4.	13.58	1.	9.	2.	1.	DANVERS	MA	1923
6	2.	11.80	2.	12.	2.	1.	LYNNFIELD	MA	1940
7	6.	12.73	3.	15.	2.	1.	LYNNFIELD	MA	1940
8	4.	13.65	3.	14.	2.	1.	SWAMPSCOTT	MA	1970
9	3.	14.12	3.	14.	1.	1.	E BOSTON	MA	2128
10	2.	20.00	8.	3.	3.	1.	NEWTON	MA	2158
11	4.	12.70	9.	9.	2.	1.	WEYMOUTH	MA	2188
12	4.	9.20	1.	9.	2.	1.	MANCHESTER	NH	3103
13	4.	10.84	9.	5.	2.	1.	AUGUSTA	ME	4330
14	1.	16.21	6.	9.	2.	2.	MANCHESTR CTR	VT	5254
15	3.	14.81	3.	14.	1.	1.	BURLINGTON	VT	5401
16	4.	13.21	1.	9.	2.	1.	WILLISTON	VT	5495
17	4.	10.32	5.	14.	3.	1.	BRISTOL	CT	6010
18	4.	9.94	5.	14.	3.	1.	BRISTOL	CT	6010
19	1.	14.75	11.	8.	3.	1.	BRISTOL	CT	6010
20	2.	11.83	6.	9.	1.	1.	MANCHESTER	CT	6040
21	4.	11.04	5.	14.	3.	1.	PLAINVILLE	CT	6062
22	3.	11.23	3.	14.	1.	1.	E HARTFORD	CT	6108
23	4.	12.69	9.	7.	4.	1.	W HARTFORD	CT	6110
24	4.	13.31	1.	9.	2.	1.	OLD LYME	CT	6371
25	4.	14.44	9.	9.	2.	1.	MERIDEN	CT	6450
26	4.	10.48	3.	14.	2.	1.	MERIDEN	CT	6450
27	4.	15.00	1.	5.	2.	1.	MERIDEN	CT	6450
28	4.	27.72	11.	5.	1.	1.	MERIDEN	CT	6450
29	3.	13.47	3.	14.	1.	1.	NAUGATUCK	CT	6770
30	3.	10.29	3.	14.	1.	1.	MAPLEWOOD	NJ	7040
31	1.	14.82	11.	8.	1.	1.	PARSIPPANY	NJ	7054
32	2.	21.62	8.	3.	3.	2.	PARSIPPANY	NJ	7054
33	2.	10.63	2.	11.	1.	1.	RAHWAY	NJ	7065
34	1.	10.30	1.	9.	2.	1.	SECAUCOS	NJ	7094
35	4.	7.27	1.	9.	2.	1.	JERSEY CITY	NJ	7304
36	3.	7.85	3.	14.	1.	1.	JERSEY CITY	NJ	7306
37	4.	9.59	1.	10.	4.	1.	HAWORTH	NJ	7641
38	4.	11.22	1.	9.	2.	1.	HILLSDALE	NJ	7642
39	6.	10.67	3.	15.	2.	1.	ASBURY PK	NJ	7712
40	4.	14.27	9.	5.	2.	1.	HOWELL	NJ	7727
41	3.	14.66	2.	10.	2.	1.	TURNERSVILLE	NJ	8012
42	2.	8.98	2.	12.	2.	1.	CHERRY HILL	NJ	8034
43	3.	13.96	2.	10.	2.	1.	CHERRY HILL	NJ	8034
44	3.	10.11	3.	14.	1.	1.	VOORHEES	NJ	8043
45	4.	13.02	1.	9.	2.	1.	WILLINGBORO	NJ	8046
46	4.	12.19	1.	9.	2.	1.	PENNSVILLE	NJ	8070
47	3.	11.50	3.	14.	1.	1.	RUNNEMEDE	NJ	8078
48	4.	12.76	1.	9.	2.	1.	THOROFARE	NJ	8086
49	1.	17.35	9.	6.	2.	1.	WESTMONT	NJ	8108

50	4.	14.[illegible]	1.	9.	2.	1.	N WILDWOOD	NJ	8260
51	2.	10.[illegible]	5.	14.	1.	1.	PENNINGTON	NJ	8534
52	2.	10.37	2.	11.	1.	1.	TRENTON	NJ	8519
53	2.	11.22	5.	15.	2.	1.	TRENTON	NJ	8528
54	1.	14.70	9.	6.	2.	1.	LAKEWOOD	NJ	8701
55	1.	13.2[illegible]	7.	9.	2.	1.	WHITING	NJ	8759
56	4.	11.32	9.	14.	3.	1.	PARLIN	NJ	8859
57	4.	11.34	5.	14.	2.	1.	N BRUNSWICK	NJ	8902
58	4.	9.[illegible]	1.	9.	2.	1.	NEW YORK CITY	NY	10003
59	2.	9.04	3.	14.	1.	1.	NEW YORK	NY	10023
60	3.	12.46	11.	5.	1.	1.	NEW YORK	NY	10024
61	2.	9.13	2.	11.	1.	1.	STATEN ISLAND	NY	10307
62	4.	14.46	9.	9.	4.	1.	SCARSDALE	NY	10583
63	1.	20.61	6.	3.	3.	1.	SCARSDALE	NY	10583
64	3.	11.70	2.	10.	2.	1.	YONKERS	NY	10710
65	4.	14.40	9.	9.	4.	1.	HIGHLAND FALL	NY	10928
66	5.	13.[illegible]	3.	15.	2.	1.	MIDDLETOWN	NY	10940
67	3.	15.[illegible]	2.	10.	2.	1.	MONROE	NY	10950
68	2.	13.1[illegible]	6.	9.	1.	1.	GREAT NECK	NY	11020
69	4.	15.[illegible]	1.	9.	2.	1.	BROOKLYN	NY	11218
70	2.	14.94	2.	11.	1.	1.	BAYSIDE	NY	11364
71	1.	11.34	9.	9.	2.	1.	FLUSHING	NY	11367
72	2.	11.[illegible]	5.	14.	2.	1.	BROOKVILLE	NY	11545
73	4.	9.84	1.	9.	2.	1.	N MERRICK	NY	11566
74	3.	7.88	5.	14.	2.	1.	VALLEY STREAM	NY	11581
75	3.	10.74	5.	14.	2.	1.	EAST WILLISTON	NY	11596
76	6.	9.18	5.	15.	2.	1.	WILLISTON PK	NY	11596
77	4.	10.[illegible]	1.	10.	4.	1.	BELLMORE	NY	11710
78	4.	10.75	1.	9.	2.	1.	CENTRAL ISLIP	NY	11722
79	4.	11.[illegible]	3.	14.	2.	1.	DEER PARK	NY	11729
80	3.	14.04	2.	10.	2.	1.	EAST NORTHPORT	NY	11731
81	1.	11.76	2.	9.	4.	1.	SMITHTOWN	NY	11787
82	3.	12.[illegible]	2.	10.	2.	1.	HICKSVILLE	NY	11801
83	4.	10.10	1.	9.	2.	1.	HICKSVILLE	NY	11801
84	3.	13.71	3.	14.	1.	1.	DELMAR	NY	12054
85	2.	12.20	2.	12.	2.	1.	MIDDLEBURG	NY	12122
86	1.	12.36	2.	9.	4.	1.	ALBANY	NY	12203
87	2.	11.83	2.	12.	2.	1.	ALBANY	NY	12203
88	2.	12.62	2.	11.	1.	1.	HYDE PARK	NY	12538
89	3.	12.89	2.	10.	2.	1.	RHINEBECK	NY	12572
90	4.	11.67	3.	14.	2.	1.	WALDEN	NY	12586
91	1.	9.73	2.	9.	4.	1.	AUBURN	NY	13021
92	3.	12.97	3.	14.	1.	1.	CLAY	NY	13041
93	3.	14.84	5.	14.	2.	1.	HOMER	NY	13077
94	3.	11.81	2.	10.	2.	1.	SYRACUSE	NY	13204
95	4.	6.94	2.	10.	4.	1.	SOLVAY	NY	13209
96	3.	12.60	2.	14.	1.	1.	ONEIDA	NY	13421
97	4.	10.87	2.	10.	4.	1.	SHERRILL	NY	13461
98	3.	11.89	5.	14.	2.	1.	LA FARGEVILLE	NY	13656
99	1.	11.16	1.	9.	2.	1.	NORWICH	NY	13815
100	4.	16.35	9.	5.	2.	1.	AKRON	NY	14001
101	1.	9.34	2.	12.	2.	1.	EAST CONCORD	NY	14055
102	2.	11.52	2.	11.	1.	1.	FORESTVILLE	NY	14062
103	4.	12.21	1.	9.	2.	1.	HAMBURG	NY	14075
104	2.	9.76	2.	12.	2.	1.	SPRINGVILLE	NY	14141
105	1.	9.45	7.	9.	2.	1.	TONAWANDA	NY	14150
106	3.	8.06	9.	9.	1.	1.	BUFFALO	NY	14211

107	4.	13.[illegible]	[illegible].	10.	4.	1.	BUFFALO	NY	14217
108	3.	10.91	2.	14.	1.	1.	SNYDER	NY	14226
109	4.	7.9[illegible]	2.	10.	4.	1.	AMHERST	NY	14226
110	4.	10.[illegible]	3.	14.	2.	1.	SNYDER	NY	14226
111	3.	10.75	2.	10.	2.	1.	CHEEKTOWAGA	NY	14227
112	1.	15.11	7.	[illegible].	2.	1.	CHEEKTOWAGA	NY	14227
113	4.	11.27	3.	14.	2.	1.	HILTON	NY	14468
114	3.	12.35	3.	14.	1.	1.	SHORTSVILLE	NY	14548
115	2.	12.[illegible]	2.	11.	1.	1.	SILVER LAKE	NY	14549
116	4.	13.[illegible]	2.	10.	4.	1.	WILLIAMSON	NY	14589
117	3.	11.34	3.	14.	1.	1.	ROCHESTER	NY	14606
118	1.	12.[illegible]	2.	12.	2.	1.	BELLE VERNON	PA	15012
119	1.	10.91	4.	6.	2.	1.	BETHEL PARK	PA	15102
120	2.	10.84	2.	11.	1.	1.	CARNEGIE	PA	15106
121	6.	14.2[illegible]	5.	15.	2.	1.	N VERSAILLES	PA	15137
122	2.	9.70	2.	11.	1.	1.	MONROEVILLE	PA	15146
123	1.	9.[illegible]	4.	9.	2.	1.	PITTSBURGH	PA	15206
124	3.	13.[illegible]	2.	10.	2.	1.	PITTSBURGH	PA	15209
125	1.	10.51	6.	9.	2.	1.	PITTSBURGH	PA	15212
126	1.	8.5[illegible]	1.	9.	2.	1.	PITTSBURGH	PA	15219
127	2.	8.30	2.	12.	2.	1.	PITTSBURGH	PA	15220
128	2.	9.44	2.	11.	1.	1.	PITTSBURGH	PA	15226
129	3.	10.54	2.	10.	2.	1.	PITTSBURGH	PA	15228
130	2.	9.08	2.	11.	1.	1.	PITTSBURGH	PA	15234
131	1.	13.37	6.	9.	2.	1.	PITTSBURGH	PA	15236
132	2.	1[illegible].21	2.	11.	1.	1.	PITTSBURGH	PA	15236
133	4.	11.37	[illegible].	14.	3.	1.	MCMURRAY	PA	15317
134	1.	13.42	2.	12.	2.	1.	BEDFORD	PA	15522
135	2.	9.28	6.	10.	1.	1.	N HUNTINGDON	PA	15642
136	3.	13.54	2.	10.	2.	1.	N HUNTINGTON	PA	15642
137	4.	1[illegible].[illegible]	5.	14.	3.	1.	INDIANA	PA	15701
138	2.	8.92	5.	9.	1.	1.	NEW CASTLE	PA	16101
139	4.	12.05	5.	14.	3.	1.	NEW CASTLE	PA	16105
140	1.	15.54	9.	6.	2.	1.	SHEFFIELD	PA	16347
141	3.	10.30	2.	10.	2.	1.	ERIE	PA	16510
142	3.	9.94	3.	14.	1.	1.	ALTOONA	PA	16602
143	1.	13.80	9.	9.	2.	1.	GALLITZIN	PA	16641
144	1.	14.56	11.	8.	1.	1.	EAST WATERFOR	PA	17021
145	4.	12.99	1.	9.	2.	1.	JONESTOWN	PA	17038
146	1.	11.05	2.	9.	4.	1.	NEW CUMBERLAN	PA	17070
147	3.	14.64	2.	10.	2.	1.	NEW CUMBERLAND	PA	17070
148	1.	11.15	2.	9.	4.	1.	HARRISBURG	PA	17109
149	1.	11.95	7.	9.	2.	1.	HARRISBURG	PA	17109
150	1.	11.61	2.	12.	2.	1.	MERCERSBURG	PA	17236
151	4.	9.34	1.	9.	2.	1.	YORK	PA	17402
152	3.	11.54	2.	10.	2.	1.	YORK	PA	17403
153	6.	9.26	3.	15.	2.	1.	YORK	PA	17403
154	3.	10.36	3.	14.	1.	1.	LANCASTER	PA	17603
155	2.	12.05	6.	9.	1.	1.	SUNBURY	PA	17801
156	1.	13.38	2.	12.	2.	1.	WEST MILTON	PA	17886
157	4.	13.54	1.	9.	2.	1.	NAZARETH	PA	18064
158	3.	12.75	3.	14.	1.	1.	CLARKS SUMMIT	PA	18411
159	1.	15.31	8.	9.	2.	1.	BERWICK	PA	18603
160	1.	11.60	9.	6.	2.	1.	KINGSTON	PA	18704
161	3.	13.18	9.	9.	1.	1.	SWOYERSVILLE	PA	18704
162	2.	11.75	2.	12.	2.	1.	YEADON	PA	19050
163	4.	11.71	1.	9.	2.	1.	HAVERTOWN	PA	19061

164	1.	11.27	1.	9.	2.	1.	SPRINGFIELD	PA	19064
165	2.	11.49	7.	10.	1.	1.	SPRINGFIELD	PA	19064
166	3.	11.45	2.	10.	2.	1.	NEWTOWN SQUARE	PA	19073
167	4.	7.35	1.	10.	4.	1.	NEWTOWN SQUAR	PA	19073
168	1.	10.32	9.	9.	2.	1.	PHILA	PA	19111
169	1.	12.76	9.	8.	2.	1.	PHILA	PA	19111
170	4.	9.14	1.	10.	2.	1.	PHILADELPHIA	PA	19111
171	1.	9.35	1.	9.	2.	1.	PHILADELPHIA	PA	19115
172	2.	10.37	3.	14.	1.	1.	PHILADELPHIA	PA	19128
173	1.	10.79	2.	9.	4.	1.	PHILADELPHIA	PA	19142
174	1.	9.40	9.	9.	2.	1.	PHILADELPHIA	PA	19151
175	1.	10.10	11.	8.	1.	1.	LANSDALE	PA	19446
176	1.	13.00	9.	9.	2.	1.	NEWARK	DE	19711
177	4.	10.34	1.	10.	2.	1.	CHEVY CHASE	MD	20015
178	3.	10.15	2.	14.	1.	1.	WASHINGTON	DC	20020
179	3.	13.59	3.	14.	1.	1.	OXON HILL	MD	20022
180	3.	12.10	2.	14.	1.	1.	SUITLAND	MD	20023
181	4.	9.67	9.	9.	2.	1.	DISTRICT HGHT	MD	20027
182	2.	12.15	6.	10.	1.	1.	CAMP SPRINGS	MD	20031
183	2.	14.53	9.	6.	2.	1.	MARLOW HTS	MD	20031
184	2.	11.59	2.	12.	2.	1.	AGUASCO	MD	20608
185	3.	13.50	3.	14.	1.	1.	PINEY POINT	MD	20674
186	2.	11.36	6.	9.	1.	1.	GAITHERSBURG	MD	20760
187	1.	15.04	2.	12.	2.	1.	HYATTSVILLE	MD	20782
188	6.	8.23	3.	15.	2.	1.	MT RAINIER	MD	20822
189	3.	13.98	3.	14.	1.	1.	ROCKVILLE	MD	20850
190	4.	11.54	1.	9.	2.	1.	OWINGS MILLS	MD	21117
191	4.	12.78	1.	9.	2.	1.	OWINGS MILLS	MD	21117
192	6.	12.39	3.	15.	2.	1.	BALTIMORE	MD	21153
193	4.	9.54	1.	9.	2.	1.	BALTIMORE	MD	21209
194	2.	12.61	2.	12.	2.	1.	BALTIMORE	MD	21222
195	4.	12.88	2.	10.	4.	1.	BALTIMORE	MD	21222
196	3.	10.33	3.	14.	1.	1.	BALTIMORE	MD	21223
197	2.	9.09	2.	12.	2.	1.	BALTIMORE	MD	21224
198	1.	10.02	1.	9.	2.	1.	BALTIMORE	MD	21229
199	3.	10.94	2.	10.	2.	1.	ANNAPOLIS	MD	21401
200	1.	17.34	6.	10.	4.	2.	ANNAPOLIS	MD	21401
201	3.	14.66	2.	10.	2.	1.	SYKESVILLE	MD	21784
202	3.	13.41	2.	10.	2.	1.	MARDELA SPRINGS	MD	21837
203	3.	11.06	3.	14.	1.	1.	ANNANDALE	VA	22003
204	3.	14.38	1.	10.	2.	1.	MANASSAS	VA	22110
205	1.	18.82	11.	8.	1.	1.	ALEXANDRIA	VA	22304
206	4.	15.94	9.	9.	2.	1.	ALEXANDRIA	VA	22307
207	3.	13.29	2.	10.	2.	1.	WILLIAMSBURG	VA	23185
208	3.	15.54	2.	10.	2.	1.	RICHMOND	VA	23234
209	1.	13.68	6.	9.	2.	1.	VA BEACH	VA	23462
210	2.	13.64	2.	11.	1.	1.	HAMPTON	VA	23669
211	2.	13.28	6.	9.	1.	1.	RICHMOND	VA	23803
212	3.	13.50	3.	14.	1.	1.	ROANOKE	VA	24012
213	3.	10.80	2.	10.	2.	1.	VINTON	VA	24179
214	2.	15.09	1.	9.	1.	1.	HONAKER	VA	24260
215	4.	11.79	1.	10.	2.	1.	WOODLAWN	VA	24381
216	4.	11.49	2.	14.	4.	1.	CHARLESTON	WV	25304
217	1.	16.08	9.	6.	2.	1.	CHARLESTON	WV	25306
218	6.	10.43	5.	15.	2.	1.	LE SAGE	WV	25537
219	1.	10.23	1.	9.	2.	1.	HUNTINGTON	WV	25701
220	3.	8.04	5.	14.	2.	1.	BECKLEY	WV	25801

221	3.	7.20	5.	14.	2.	1.	CLARKSBURG	WV	26301
222	1.	-4.85	6.	5.	2.	1.	WINSTON SALEM	NC	27106
223	3.	10.17	7.	12.	2.	1.	GREENSBORO	NC	27408
224	4.	12.41	4.	12.	2.	1.	GOLDSBORO	NC	27530
225	4.	15.13	11.	5.	1.	1.	GOLDSBORO	NC	27530
226	2.	12.33	4.	12.	2.	1.	LOUISBURG	NC	27549
227	3.	12.73	4.	10.	1.	1.	RALEIGH	NC	27612
228	3.	12.62	1.	7.	2.	1.	ROCKY MOUNT	NC	27801
229	3.	12.12	3.	14.	1.	1.	ROCKY MOUNT	NC	27801
230	3.	14.41	1.	7.	2.	1.	SALISBURY	NC	28144
231	2.	12.70	4.	9.	1.	1.	CHARLOTTE	NC	28210
232	3.	14.39	4.	10.	1.	1.	CHARLOTTE	NC	28210
233	6.	12.29	3.	15.	2.	1.	CHARLOTTE	NC	28211
234	2.	15.75	4.	9.	1.	1.	TABOR CITY	NC	28463
235	2.	11.55	2.	12.	2.	1.	KINSTON	NC	28501
236	2.	13.50	2.	11.	1.	1.	JACKSONVILLE	NC	28540
237	2.	14.35	1.	9.	1.	1.	SEVEN SPRINGS	NC	28578
238	4.	11.26	5.	14.	3.	1.	CONOVER	NC	28613
239	2.	11.45	7.	12.	1.	1.	STATESVILLE	NC	28677
240	4.	15.79	9.	7.	2.	1.	STATESVILLE	NC	28677
241	3.	14.57	1.	10.	1.	1.	SYLVA	NC	28779
242	4.	7.70	5.	14.	3.	1.	ASHEVILLE	NC	28803
243	1.	13.32	9.	6.	2.	1.	CHARLESTON	SC	29407
244	1.	11.36	2.	9.	4.	1.	GEORGETOWN	SC	29440
245	2.	11.43	2.	9.	1.	1.	SOCIETY HILL	SC	29593
246	2.	12.17	1.	9.	1.	1.	GREENVILLE	SC	29607
247	2.	13.69	7.	12.	1.	1.	GREENVILLE	SC	29607
248	4.	17.46	1.	5.	2.	1.	GREENVILLE	SC	29607
249	3.	14.95	3.	14.	1.	1.	EASLEY	SC	29640
250	4.	14.24	1.	10.	4.	1.	GREER	SC	29651
251	1.	15.40	9.	9.	2.	1.	FORT MILL	SC	29715
252	3.	15.05	1.	7.	2.	1.	GRANITEVILLE	SC	29829
253	2.	12.54	2.	11.	1.	1.	DECATUR	GA	30034
254	4.	14.75	1.	10.	2.	1.	CUMMING	GA	30130
255	3.	14.04	2.	10.	2.	1.	DOUGLASVILLE	GA	30134
256	4.	13.76	5.	14.	3.	1.	ROME	GA	30161
257	2.	13.17	1.	9.	1.	1.	WACO	GA	30182
258	3.	15.36	2.	14.	1.	1.	MC DONOUGH	GA	30253
259	1.	11.71	1.	12.	2.	1.	REX	GA	30273
260	2.	12.11	7.	12.	1.	1.	ATLANTA	GA	30327
261	3.	13.21	1.	10.	1.	1.	COLLEGE PARK	GA	30349
262	2.	14.02	1.	9.	1.	1.	COLLEGE PARK	GA	30349
263	1.	11.99	2.	12.	2.	1.	LYONS	GA	30436
264	2.	13.26	2.	10.	2.	1.	STATESBORO	GA	30458
265	1.	15.28	1.	9.	1.	1.	SYLVANIA	GA	30467
266	4.	13.54	5.	14.	3.	1.	GAINESVILLE	GA	30501
267	4.	12.14	1.	9.	2.	1.	MCCAYSVILLE	GA	30555
268	2.	14.50	7.	12.	1.	1.	MARTINEZ	GA	30907
269	3.	15.36	1.	7.	2.	1.	SAVANNAH	GA	31401
270	3.	12.42	9.	10.	1.	1.	SAVANNAH	GA	31406
271	2.	16.20	7.	12.	1.	1.	WAYCROSS	GA	31501
272	2.	15.41	9.	9.	1.	1.	BRUNSWICK	GA	31520
273	2.	14.94	1.	9.	1.	1.	QUITMAN	GA	31643
274	3.	15.34	3.	14.	1.	1.	ALBANY	GA	31707
275	2.	13.64	7.	12.	1.	1.	FORT BENNING	GA	31905
276	2.	16.17	7.	12.	1.	1.	FORT BENNING	GA	31905
277	2.	10.27	7.	12.	1.	1.	JACKSONVILLE	FL	32210

275	2.	10.24	9.	3.	3.	1.	JACKSONVILLE	FL	32210
276	3.	14.58	1.	10.	1.	1.	JACKSONVILLE	FL	32210
280	4.	14.00	9.	9.	2.	1.	JACKSONVILLE	FL	32216
281	2.	12.94	7.	12.	1.	1.	JACKSONVILLE	FL	32218
282	3.	13.23	2.	14.	1.	1.	QUINCY	FL	32351
283	2.	11.07	7.	12.	1.	1.	PANAMA CITY	FL	32401
284	2.	10.15	1.	12.	1.	1.	PENSACOLA	FL	32508
285	2.	11.55	7.	12.	1.	1.	CRESTVIEW	FL	32536
286	1.	13.15	9.	9.	2.	1.	FT WALTON BCH	FL	32548
287	3.	11.41	3.	14.	1.	1.	GAINESVILLE	FL	32601
288	2.	14.31	7.	12.	1.	1.	INVERNESS	FL	32650
289	2.	15.00	9.	10.	1.	1.	SUMMERFIELD	FL	32691
290	2.	12.21	1.	9.	1.	1.	ALTAMONTE SPG	FL	32701
291	3.	12.79	1.	7.	2.	1.	DELAND	FL	32720
292	6.	10.38	3.	15.	2.	1.	MAITLAND	FL	32751
293	3.	13.56	9.	9.	1.	1.	WINTER PARK	FL	32789
294	2.	11.85	7.	12.	1.	1.	ORLANDO	FL	32806
295	4.	13.75	5.	14.	3.	1.	COCOA	FL	32922
296	2.	11.88	1.	9.	1.	1.	SATELLITE BCH	FL	32937
297	3.	13.44	3.	14.	1.	1.	HOLLYWOOD	FL	33020
298	1.	11.26	2.	9.	4.	1.	MARGATE	FL	33063
299	2.	14.55	9.	9.	1.	1.	POMPANO BEACH	FL	33064
300	3.	16.85	9.	6.	2.	1.	CORAL GABLES	FL	33143
301	3.	10.56	1.	10.	1.	1.	MIAMI BCH	FL	33154
302	3.	13.33	1.	7.	2.	1.	MIAMI	FL	33165
303	6.	12.12	3.	15.	2.	1.	MIAMI	FL	33167
304	4.	9.17	3.	14.	2.	1.	SEA RANCH LKS	FL	33304
305	2.	11.70	1.	9.	1.	1.	LAUD BY SEA	FL	33308
306	3.	12.51	9.	9.	1.	1.	FT LAUDERDALE	FL	33313
307	3.	14.33	1.	7.	2.	1.	SUNRISE	FL	33313
308	1.	11.97	9.	9.	2.	1.	SUNRISE	FL	33313
309	3.	11.27	1.	10.	1.	1.	PLANTATION	FL	33317
310	2.	12.77	7.	12.	1.	1.	W PALM BEACH	FL	33401
311	3.	12.84	1.	7.	2.	1.	W PALM BCH	FL	33405
312	2.	11.89	9.	9.	1.	1.	W PALM BEACH	FL	33405
313	4.	9.86	3.	14.	2.	1.	BOCA RATON	FL	33432
314	2.	14.08	9.	9.	1.	1.	DELRAY BEACH	FL	33444
315	2.	10.54	1.	9.	1.	1.	FORT PIERCE	FL	33450
316	2.	11.85	1.	9.	1.	1.	PALM BEACH	FL	33480
317	6.	9.90	3.	15.	2.	1.	PALM BCH	FL	33480
318	2.	26.88	8.	3.	3.	2.	STUART	FL	33494
319	2.	11.30	1.	9.	1.	1.	BROOKSVILLE	FL	33512
320	2.	12.10	6.	9.	1.	1.	CLEARWATER	FL	33515
321	2.	11.20	9.	6.	2.	1.	CLEARWATER	FL	33515
322	4.	12.61	1.	10.	2.	1.	LARGO	FL	33540
323	1.	12.50	2.	9.	4.	1.	LARGO	FL	33540
324	3.	17.23	1.	7.	2.	1.	NEW PORT RICHEY	FL	33552
325	3.	13.32	2.	10.	2.	1.	PLANT CITY	FL	33566
326	4.	9.95	3.	14.	2.	1.	SARASOTA	FL	33581
327	2.	13.09	2.	11.	1.	1.	TARPON SPG	FL	33589
328	3.	12.83	1.	7.	2.	1.	TAMPA	FL	33606
329	2.	12.11	1.	9.	1.	1.	TAMPA	FL	33615
330	2.	12.33	1.	9.	1.	1.	TEMPLE TER	FL	33617
331	3.	15.35	1.	7.	2.	1.	TAMPA	FL	33617
332	4.	12.82	9.	9.	2.	1.	ST PETERSBURG	FL	33703
333	3.	12.66	2.	10.	2.	1.	ST PETERSBURG	FL	33709
334	3.	13.30	3.	14.	1.	1.	LAKELAND	FL	33803

335	4.	15.25	3.	14.	2.	1.	FORT MYERS	FL	33901
336	5.	11.79	3.	15.	2.	1.	LEHIGH ACRES	FL	33936
337	2.	12.95	1.	9.	1.	1.	JEMISON	AL	35085
338	3.	14.76	2.	13.	2.	1.	QUINTON	AL	35130
339	3.	13.32	2.	13.	2.	1.	BIRMINGHAM	AL	35206
340	3.	13.02	2.	10.	2.	1.	BIRMINGHAM	AL	35212
341	3.	11.06	1.	10.	1.	1.	BIRMINGHAM	AL	35215
342	4.	12.18	5.	14.	3.	1.	BIRMINGHAM	AL	35215
343	1.	14.32	7.	9.	2.	1.	BIRMINGHAM	AL	35218
344	4.	10.20	5.	14.	3.	1.	BIRMINGHAM	AL	35235
345	2.	11.75	7.	12.	1.	1.	JASPER	AL	35501
346	4.	13.57	1.	9.	2.	1.	BEAR CREEK	AL	35543
347	2.	13.75	1.	9.	1.	1.	SCOTTSBORO	AL	35768
348	1.	15.30	11.	8.	1.	1.	GADSDEN	AL	35901
349	3.	13.44	1.	10.	1.	1.	EUFAULA	AL	36027
350	3.	14.39	1.	10.	1.	1.	PETREY	AL	36062
351	2.	10.03	1.	9.	1.	1.	MONTGOMERY	AL	36104
352	3.	14.30	2.	13.	2.	1.	MONTGOMERY	AL	36111
353	2.	17.22	1.	9.	1.	1.	ROBERTSDALE	AL	36567
354	6.	11.73	5.	15.	2.	1.	SARALAND	AL	36571
355	3.	15.94	2.	13.	2.	1.	MOBILE	AL	36608
356	4.	14.07	5.	14.	3.	1.	MOBILE	AL	36609
357	2.	11.35	2.	11.	1.	1.	MOBILE	AL	36609
358	3.	13.55	1.	10.	1.	1.	MOBILE	AL	36609
359	1.	13.71	1.	9.	2.	1.	THOMASVILLE	AL	36784
360	2.	14.11	1.	9.	1.	1.	OPELIKA	AL	36801
361	2.	9.95	7.	12.	1.	1.	BELFAST	TN	37019
362	3.	13.96	9.	9.	1.	1.	CLARKSVILLE	TN	37040
363	1.	9.31	2.	12.	2.	1.	HERMITAGE	TN	37076
364	3.	15.34	9.	7.	1.	1.	MC EWEN	TN	37101
365	4.	11.53	5.	14.	3.	1.	OLD HICKORY	TN	37138
366	2.	13.01	7.	12.	1.	1.	NASHVILLE	TN	37211
367	2.	14.53	7.	12.	1.	1.	NASHVILLE	TN	37214
368	3.	11.49	1.	10.	1.	1.	NASHVILLE	TN	37215
369	2.	15.13	1.	6.	4.	1.	NASHVILLE	TN	37215
370	3.	14.61	5.	14.	2.	1.	NASHVILLE	TN	37220
371	1.	15.06	7.	9.	2.	1.	COPPERHILL	TN	37317
372	3.	11.05	1.	10.	1.	1.	CHATTANOOGA	TN	37415
373	4.	9.81	5.	14.	3.	1.	CHATTANOOGA	TN	37415
374	3.	10.50	1.	7.	2.	1.	JOHNSON CITY	TN	37601
375	1.	8.84	1.	9.	2.	1.	BLUFF CITY	TN	37618
376	4.	14.27	9.	9.	2.	1.	JONESBORO	TN	37659
377	1.	11.08	1.	9.	4.	1.	KINGSPORT	TN	37662
378	4.	10.20	1.	9.	2.	1.	POWELL	TN	37849
379	6.	12.76	5.	15.	2.	1.	ROCKWOOD	TN	37854
380	3.	13.12	1.	10.	1.	1.	SEVIERVILLE	TN	37862
381	3.	12.56	2.	10.	2.	1.	KNOXVILLE	TN	37918
382	6.	13.96	5.	15.	2.	1.	MEMPHIS	TN	38116
383	4.	9.30	5.	14.	3.	1.	GREENFIELD	TN	38230
384	2.	12.85	1.	9.	1.	1.	UNION CITY	TN	38261
385	3.	15.49	9.	9.	1.	1.	HUMBOLDT	TN	38343
386	1.	13.26	2.	12.	2.	1.	BELMONT	MS	38827
387	4.	11.03	5.	14.	3.	1.	CANTON	MS	39046
388	1.	21.59	8.	3.	3.	1.	LONG BEACH	MS	39560
389	3.	14.01	1.	10.	1.	1.	EMINENCE	KY	40019
390	1.	9.76	2.	12.	2.	1.	FT KNOX	KY	40121
391	1.	23.24	8.	3.	3.	2.	FORT KNOX	KY	40121

392	3.	9.[illegible]	7.	10.	1.	1.	LOUISVILLE	KY	40206
393	1.	13.[illegible]	5.	9.	2.	1.	LOUISVILLE	KY	40207
394	1.	11.[illegible]	7.	9.	2.	1.	LOUISVILLE	KY	40214
395	1.	12.[illegible]	7.	9.	2.	1.	LEXINGTON	KY	40504
396	2.	2[illegible]	8.	8.	3.	2.	LEXINGTON	KY	40504
397	1.	15.[illegible]	9.	6.	2.	1.	CYNTHIANA	KY	41031
398	2.	11.[illegible]	2.	11.	1.	1.	ASHLAND	KY	41101
399	3.	13.94	9.	7.	1.	1.	ASHLAND	KY	41101
400	3.	13.32	2.	12.	2.	1.	ASHLAND	KY	41101
401	2.	12.[illegible]	1.	12.	1.	1.	DORTON	KY	41520
402	1.	10.[illegible]	9.	9.	2.	1.	BUCKEYE LAKE	OH	43008
403	4.	11.51	2.	10.	4.	1.	COLUMBUS	OH	43214
404	6.	9.97	3.	15.	2.	1.	COLUMBUS	OH	43220
405	1.	15.7[illegible]	11.	8.	1.	1.	COLUMBUS	OH	43227
406	3.	9.15	5.	14.	2.	1.	COLUMBUS	OH	43230
407	4.	14.05	3.	14.	2.	1.	BRYAN	OH	43506
408	1.	16.55	11.	8.	1.	1.	TOLEDO	OH	43606
409	6.	8.12	5.	15.	2.	1.	ZANESVILLE	OH	43701
410	3.	13.85	2.	10.	2.	1.	FAIRVIEW	OH	43736
411	5.	9.47	3.	15.	2.	1.	COSHOCTON	OH	43812
412	1.	16.[illegible]	7.	12.	2.	1.	DILLONVALE	OH	43917
413	1.	7.93	1.	9.	2.	1.	CLEVELAND	OH	44105
414	1.	11.30	9.	6.	2.	1.	LAKEWOOD	OH	44107
415	4.	13.69	2.	10.	4.	1.	LAKEWOOD	OH	44107
416	1.	10.59	1.	9.	2.	1.	CLEVELAND	OH	44109
417	4.	12.75	3.	14.	2.	1.	CLEVELAND	OH	44110
418	4.	8.39	2.	10.	4.	1.	MAYFIELD HEIG	OH	44124
419	4.	10.[illegible]	3.	14.	2.	1.	MAYFIELD HTS	OH	44124
420	3.	5.95	9.	8.	2.	1.	MAYFIELD HTS	OH	44124
421	1.	15.19	11.	8.	1.	1.	SEVEN HILLS	OH	44131
422	4.	8.74	5.	14.	3.	1.	SEVEN HILLS	OH	44131
423	4.	15.[illegible]	9.	9.	2.	1.	WESTLAKE	OH	44145
424	3.	11.14	5.	14.	2.	1.	KENT	OH	44240
425	1.	13.64	6.	10.	4.	1.	AKRON	OH	44305
426	1.	13.80	2.	12.	2.	1.	AKRON	OH	44310
427	3.	13.23	2.	10.	2.	1.	CORTLAND	OH	44410
428	1.	15.11	6.	9.	2.	1.	HARTVILLE	OH	44632
429	4.	10.41	2.	10.	4.	1.	UNIONTOWN	OH	44685
430	4.	12.31	2.	10.	4.	1.	BUCYRUS	OH	44820
431	2.	14.50	6.	10.	1.	1.	SHELBY	OH	44875
432	4.	12.91	2.	14.	4.	1.	MIDDLETOWN	OH	45042
433	6.	13.33	5.	15.	2.	1.	MIDDLETOWN	OH	45042
434	1.	12.74	1.	9.	4.	1.	MARTINSVILLE	OH	45146
435	3.	11.60	5.	14.	2.	1.	CINCINNATI	OH	45238
436	4.	11.11	5.	14.	3.	1.	ARCANUM	OH	45304
437	4.	11.90	5.	14.	3.	1.	ARCANUM	OH	45304
438	4.	10.35	5.	14.	3.	1.	CONOVER	OH	45317
439	6.	10.09	5.	15.	2.	1.	EATON	OH	45320
440	3.	10.38	5.	14.	2.	1.	GREENVILLE	OH	45331
441	2.	12.42	6.	10.	1.	1.	W CARROLLTON	OH	45449
442	2.	12.64	2.	11.	1.	1.	SPRINGFIELD	OH	45502
443	2.	12.65	2.	12.	2.	1.	PORTSMOUTH	OH	45662
444	1.	13.47	9.	6.	2.	1.	LIMA	OH	45801
445	4.	12.06	2.	10.	4.	1.	LIMA	OH	45801
446	1.	9.35	7.	9.	2.	1.	LIMA	OH	45805
447	1.	9.81	9.	9.	2.	1.	LIMA	OH	45805
448	1.	13.14	2.	9.	4.	1.	SPENCERVILLE	OH	45887

449	1.	9.79	7.	6.	2.	1.	WAPAKONETA	OH	45895
450	4.	12.51	9.	5.	1.	1.	ANDERSON	IN	46011
451	3.	10.35	5.	14.	2.	1.	ANDERSON	IN	46011
452	4.	11.92	5.	14.	3.	1.	FRANKFORT	IN	46041
453	6.	12.43	5.	15.	2.	1.	LAPEL	IN	46051
454	1.	12.32	1.	9.	2.	1.	CLOVERDALE	IN	46120
455	1.	11.54	1.	9.	4.	1.	INDIANAPOLIS	IN	46200
456	1.	14.49	1.	9.	2.	1.	LAWRENCE	IN	46226
457	2.	15.12	9.	9.	1.	1.	INDIANAPOLIS	IN	46226
458	4.	11.47	3.	14.	2.	1.	INDIANAPOLIS	IN	46227
459	4.	12.07	2.	10.	4.	1.	INDIANAPOLIS	IN	46229
460	4.	13.00	9.	9.	4.	1.	INDIANAPOLIS	IN	46234
461	2.	12.99	6.	10.	1.	1.	INDIANAPOLIS	IN	46241
462	4.	14.09	2.	10.	4.	1.	CEDAR LAKE	IN	46303
463	4.	13.03	5.	9.	4.	1.	CROWN POINT	IN	46307
464	4.	9.55	3.	14.	2.	1.	VALPARAISO	IN	46383
465	4.	10.53	9.	9.	4.	1.	GARY	IN	46404
466	6.	9.52	3.	15.	2.	1.	ELKHART	IN	46514
467	4.	11.06	2.	10.	4.	1.	GOSHEN	IN	46526
468	3.	9.65	5.	14.	2.	1.	MISHAWAKA	IN	46544
469	3.	15.85	9.	6.	2.	1.	SOUTH BEND	IN	46616
470	1.	13.09	9.	9.	2.	1.	AUBURN	IN	46706
471	4.	12.21	2.	10.	4.	1.	DECATUR	IN	46733
472	2.	12.17	6.	10.	1.	1.	FORT WAYNE	IN	46815
473	4.	9.35	2.	10.	4.	1.	GALVESTON	IN	46932
474	1.	14.03	11.	8.	1.	1.	LOGANSPORT	IN	46947
475	6.	11.29	3.	15.	2.	1.	MARION	IN	46952
476	2.	13.59	1.	9.	1.	1.	MARION	IN	46952
477	4.	12.01	5.	14.	3.	1.	COLUMBUS	IN	47201
478	4.	9.85	2.	14.	4.	1.	UNION CITY	IN	47390
479	2.	12.33	2.	12.	2.	1.	BLOOMINGTON	IN	47401
480	3.	18.10	1.	7.	2.	1.	BLOOMINGTON	IN	47401
481	4.	12.06	3.	14.	2.	1.	MITCHELL	IN	47446
482	3.	12.60	5.	14.	2.	1.	CRAWFORDSVILLE	IN	47933
483	1.	14.49	8.	9.	2.	1.	EAST DETROIT	MI	48021
484	3.	11.45	2.	14.	2.	1.	E DETROIT	MI	48021
485	4.	10.70	2.	10.	4.	1.	PONTIAC	MI	48055
486	5.	12.12	3.	15.	2.	1.	PT HURON	MI	48060
487	1.	12.58	1.	9.	2.	1.	ROCHESTER	MI	48063
488	2.	19.28	8.	3.	3.	1.	ROCHESTER	MI	48063
489	3.	20.53	11.	5.	1.	1.	BERKLEY	MI	48072
490	4.	11.15	2.	10.	4.	1.	ROYAL OAK	MI	48073
491	2.	12.20	6.	9.	1.	1.	SOUTHFIELD	MI	48076
492	4.	14.54	9.	7.	2.	1.	STERLING HEIG	MI	48077
493	1.	17.23	11.	8.	1.	1.	TROY	MI	48084
494	2.	12.73	7.	12.	1.	1.	TROY	MI	48084
495	4.	12.89	2.	14.	4.	1.	TROY	MI	48084
496	3.	16.30	11.	5.	1.	1.	UNION LAKE	MI	48085
497	2.	15.42	6.	9.	1.	1.	UNION LAKE	MI	48085
498	4.	11.95	3.	14.	2.	1.	ANN ARBOR	MI	48104
499	4.	11.22	2.	10.	4.	1.	DEARBORN	MI	48128
500	4.	12.56	9.	5.	1.	1.	LIVONIA	MI	48152
501	4.	13.79	2.	10.	4.	1.	LIVONIA	MI	48154
502	1.	19.51	11.	8.	1.	2.	LIVONIA	MI	48154
503	2.	12.00	6.	10.	1.	1.	WHITMORE LAKE	MI	48189
504	3.	10.54	5.	14.	2.	1.	YPSILANTI	MI	48197
505	1.	10.28	2.	9.	4.	1.	DETROIT	MI	48214

506	2.	[illegible]	[illegible]	7.	1.	1.	DETROIT	MI	48234
507	1.	[illegible]	[illegible]	7.	2.	1.	GROSSE PTE WD	MI	48236
508	4.	[illegible]	9.	9.	2.	1.	GROSSE PTE WD	MI	48236
509	4.	12.[illegible]	3.	14.	2.	1.	GROSS PTE	MI	48236
510	2.	11.[illegible]	6.	9.	1.	1.	OAK PARK	MI	48237
511	1.	[illegible].76	5.	15.	2.	1.	DETROIT	MI	48238
512	1.	11.[illegible]	6.	12.	2.	1.	DETROIT	MI	48239
513	1.	22.34	11.	8.	3.	1.	DETROIT	MI	48239
514	3.	14.31	7.	12.	1.	1.	DETROIT	MI	48239
515	2.	11.92	7.	12.	1.	1.	DETROIT	MI	48239
516	2.	13.[illegible]	7.	12.	1.	1.	DETROIT	MI	48239
517	2.	13.49	7.	12.	1.	1.	REDFORD	MI	48239
518	3.	14.07	9.	9.	1.	1.	DETROIT	MI	48239
519	2.	14.55	7.	7.	1.	1.	FENTON	MI	48430
520	4.	11.29	2.	10.	4.	1.	FLUSHING	MI	48433
521	4.	11.53	2.	10.	4.	1.	GRAND BLANC	MI	48439
522	4.	16.37	9.	5.	2.	1.	FLINT	MI	48507
523	1.	13.57	7.	9.	2.	1.	SAGINAW	MI	48603
524	1.	12.33	9.	6.	2.	1.	SAGINAW	MI	48603
525	2.	14.[illegible]	6.	10.	1.	1.	BAY PORT	MI	48720
526	4.	16.35	9.	5.	2.	1.	BRIDGEPORT	MI	48722
527	4.	11.[illegible]	2.	10.	4.	1.	REESE	MI	48757
528	3.	12.[illegible]	5.	14.	2.	1.	SILVERWOOD	MI	48760
529	1.	14.23	9.	9.	2.	2.	ITHACA	MI	48847
530	4.	11.54	3.	14.	2.	1.	MASON	MI	48854
531	1.	10.26	5.	9.	2.	1.	LANSING	MI	48915
532	4.	9.79	3.	14.	2.	1.	KALAMAZOO	MI	49008
533	1.	12.99	3.	15.	2.	1.	COLDWATER	MI	49036
534	4.	10.[illegible]	5.	14.	3.	1.	PAW PAW	MI	49079
535	1.	10.14	8.	8.	2.	1.	PAW PAW	MI	49079
536	6.	12.59	3.	15.	2.	1.	STURGIS	MI	49091
537	1.	13.[illegible]	6.	9.	2.	1.	BROOKLYN	MI	49230
538	2.	17.[illegible]	6.	7.	1.	1.	COOPERSVILLE	MI	49404
539	1.	11.57	7.	9.	2.	1.	MUSKEGON HTS	MI	49444
540	4.	9.32	2.	10.	4.	1.	GRAND RAPIDS	MI	49505
541	4.	11.76	2.	10.	4.	1.	GRAND RAPIDS	MI	49505
542	4.	14.17	2.	10.	4.	1.	GRAND RAPIDS	MI	49507
543	4.	10.03	2.	10.	4.	1.	GRAND RAPIDS	MI	49507
544	4.	10.05	3.	14.	2.	1.	GRAND RAPIDS	MI	49508
545	1.	12.49	2.	12.	2.	1.	BLAIRSBURG	IA	50034
546	1.	19.94	8.	3.	3.	1.	INDIANOLA	IA	50125
547	1.	13.78	8.	3.	3.	1.	MARSHALLTOWN	IA	50158
548	2.	12.39	6.	10.	1.	1.	DES MOINES	IA	50317
549	2.	15.19	9.	7.	1.	1.	DES MOINES	IA	50322
550	1.	14.08	9.	8.	2.	1.	DES MOINES	IA	50322
551	1.	10.07	9.	9.	2.	1.	FORT DODGE	IA	50501
552	1.	10.58	1.	12.	4.	1.	GOWRIE	IA	50543
553	2.	21.37	8.	3.	3.	2.	CEDAR FALLS	IA	50613
554	3.	11.83	5.	14.	2.	1.	SPIRIT LAKE	IA	51360
555	3.	10.43	5.	14.	2.	1.	COUNCIL BLUFFS	IA	51501
556	3.	14.62	9.	7.	1.	1.	DELHI	IA	52223
557	1.	12.19	2.	12.	2.	1.	LUZERNE	IA	52257
558	2.	21.33	8.	3.	3.	2.	CEDAR RAPIDS	IA	52402
559	2.	17.26	8.	3.	3.	1.	CEDAR RAPIDS	IA	52402
560	1.	12.08	1.	9.	2.	1.	MONTROSE	IA	52639
561	3.	13.11	5.	14.	2.	1.	DE WITT	IA	52742
562	4.	10.82	9.	9.	4.	1.	CEDARBURG	WI	53012

563	2.	20.9[illegible]	[illegible]	3.	3.	1.	FRANKLIN	WI	53132
564	2.	12.51	2.	12.	2.	1.	FRANKLIN	WI	53132
565	1.	21.22	3.	3.	3.	2.	KANSASVILLE	WI	53139
566	4.	11.32	2.	10.	4.	1.	KENOSHA	WI	53140
567	3.	14.18	4.	5.	2.	1.	MILWAUKEE	WI	53207
568	2.	16.16	1.	6.	2.	1.	MILWAUKEE	WI	53207
569	1.	15.97	11.	3.	1.	1.	WEST ALLIS	WI	53227
570	2.	14.[illegible]9	2.	12.	4.	2.	MILWAUKEE	WI	53227
571	4.	12.31	2.	10.	4.	1.	MONTFORT	WI	53569
572	4.	13.27	4.	7.	4.	1.	MADISON	WI	53711
573	4.	12.45	3.	10.	4.	1.	SHAWANO	WI	54166
574	3.	13.41	[illegible]	14.	2.	1.	GREEN BAY	WI	54301
575	4.	11.59	3.	10.	4.	1.	MEDINA	WI	54951
576	2.	12.72	2.	12.	2.	1.	ST PAUL	MN	55113
577	1.	15.72	8.	9.	2.	1.	W ST PAUL	MN	55118
578	1.	13.77	9.	6.	2.	1.	MINNEAPOLIS	MN	55416
579	1.	19.94	8.	3.	3.	1.	ROBBINSDALE	MN	55422
580	4.	13.78	9.	5.	2.	1.	MINNEAPOLIS	MN	55427
581	3.	12.24	5.	14.	2.	1.	MINNEAPOLIS	MN	55441
582	3.	20.31	11.	5.	1.	1.	PLYMOUTH	MN	55441
583	4.	12.31	4.	9.	2.	1.	DULUTH	MN	55811
584	1.	9.38	7.	9.	2.	1.	ROCHESTER	MN	55901
585	4.	13.52	9.	9.	4.	1.	ROCHESTER	MN	55901
586	2.	14.11	4.	6.	2.	1.	LAKEFIELD	MN	56150
587	1.	12.51	2.	9.	4.	1.	HAYTI	SD	57241
588	2.	14.8[illegible]	8.	3.	3.	2.	FARGO	ND	58102
589	4.	9.74	3.	14.	2.	1.	NEW SALEM	ND	58563
590	1.	9.41	7.	12.	2.	1.	BILLINGS	MT	59101
591	1.	16.16	7.	3.	3.	2.	HELENA	MT	59601
592	2.	16.48	3.	14.	2.	1.	ARLINGTON HTS	IL	60004
593	4.	12.22	2.	10.	4.	1.	ARLINGTON HTS	IL	60004
594	4.	11.79	3.	14.	2.	1.	DES PLAINES	IL	60016
595	3.	16.14	3.	14.	1.	1.	DES PLAINES	IL	60016
596	4.	16.95	1.	5.	2.	1.	DES PLAINES	IL	60016
597	3.	11.27	5.	14.	2.	1.	DES PLAINES	IL	60018
598	4.	10.91	2.	10.	4.	1.	HIGHLAND PARK	IL	60035
599	6.	10.68	5.	15.	2.	1.	NORTHBROOK	IL	60062
600	3.	10.59	9.	9.	1.	1.	PARK RIDGE	IL	60068
601	4.	11.34	2.	10.	4.	1.	SKOKIE	IL	60076
602	4.	11.15	3.	14.	3.	1.	SKOKIE	IL	60076
603	1.	10.80	2.	9.	4.	1.	SKOKIE	IL	60076
604	3.	10.61	5.	14.	2.	1.	WAUKEGAN	IL	60085
605	4.	13.69	1.	5.	2.	1.	WAUKGAN	IL	60085
606	4.	11.46	9.	9.	4.	1.	WINNETKA	IL	60093
607	3.	11.10	5.	14.	2.	1.	BARTLETT	IL	60103
608	4.	11.39	3.	14.	2.	1.	BELLWOOD	IL	60104
609	6.	12.38	3.	15.	2.	1.	ELGIN	IL	60120
610	4.	9.34	3.	14.	2.	1.	ELMHURST	IL	60126
611	4.	11.59	3.	14.	2.	1.	ELMHURST	IL	60126
612	4.	10.30	3.	14.	2.	1.	SCHILLER PK	IL	60176
613	3.	11.95	5.	14.	2.	1.	W CHICAGO	IL	60185
614	1.	13.12	2.	9.	4.	1.	WHEATON	IL	60187
615	3.	10.71	3.	14.	1.	1.	WHEATON	IL	60187
616	4.	10.71	5.	14.	3.	1.	WINFIELD	IL	60190
617	2.	12.32	9.	9.	1.	1.	WINFIELD	IL	60190
618	4.	12.59	9.	9.	2.	1.	BERWYN	IL	60402
619	3.	11.13	9.	7.	1.	1.	CALUMET CITY	IL	60409

620	4.	7.13	2.	10.	4.	1.	CALUMET CITY	IL	60409
621	4.	11.46	9.	14.	2.	1.	GLENWOOD	IL	60425
622	1.	12.21	2.	9.	4.	1.	LANSING	IL	60438
623	4.	10.00	3.	14.	2.	1.	LANSING	IL	60438
624	1.	12.50	2.	9.	4.	1.	NEW LENOX	IL	60451
625	4.	12.08	2.	10.	4.	1.	NEW LENOX	IL	60451
626	4.	7.77	3.	14.	2.	1.	OAK LAWN	IL	60453
627	4.	14.10	9.	5.	2.	1.	PALOS PK	IL	60464
628	4.	14.98	2.	10.	4.	1.	PARK FOREST	IL	60466
629	2.	13.08	6.	10.	1.	1.	AURORA	IL	60506
630	4.	10.29	3.	14.	2.	1.	WOODRIDGE	IL	60515
631	4.	8.09	3.	14.	2.	1.	DOWNERS GROVE	IL	60515
632	1.	15.50	6.	6.	4.	2.	DOWNERS GROVE	IL	60515
633	3.	16.01	1.	10.	1.	1.	WOODRIDGE	IL	60515
634	4.	8.99	3.	14.	2.	1.	LAGRANGE PARK	IL	60525
635	4.	10.33	3.	14.	2.	1.	LAGRANGE	IL	60525
636	3.	17.23	11.	5.	1.	1.	LA GRANGE	IL	60525
637	4.	14.33	2.	10.	4.	1.	NAPERVILLE	IL	60540
638	1.	14.17	9.	8.	2.	1.	NAPERVILLE	IL	60540
639	4.	9.07	3.	14.	2.	1.	CHICAGO	IL	60602
640	1.	8.96	2.	9.	4.	1.	CHICAGO	IL	60607
641	2.	16.73	8.	3.	3.	1.	CHICAGO	IL	60607
642	1.	10.16	2.	12.	4.	1.	CHICAGO	IL	60608
643	4.	8.35	3.	14.	2.	1.	CHICAGO	IL	60608
644	1.	18.30	8.	3.	3.	1.	CHICAGO	IL	60614
645	4.	10.59	3.	14.	2.	1.	CHICAGO	IL	60626
646	1.	11.07	1.	9.	2.	1.	CHICAGO	IL	60626
647	4.	7.32	3.	14.	2.	1.	CHICAGO	IL	60628
648	4.	11.27	2.	10.	4.	1.	CHICAGO	IL	60629
649	2.	12.11	7.	12.	1.	1.	CHICAGO	IL	60629
650	4.	11.53	2.	10.	4.	1.	CHICAGO	IL	60631
651	4.	16.44	2.	10.	4.	1.	CHICAGO	IL	60634
652	2.	11.89	6.	12.	4.	2.	CHICAGO	IL	60634
653	4.	13.01	2.	10.	4.	1.	CHICAGO	IL	60643
654	1.	13.46	2.	9.	4.	1.	CHICAGO	IL	60645
655	4.	9.61	2.	10.	4.	1.	CHICAGO	IL	60646
656	6.	12.09	5.	15.	2.	1.	LINCOLNWOOD	IL	60646
657	1.	13.21	9.	9.	2.	1.	CHICAGO	IL	60647
658	4.	8.80	2.	10.	4.	1.	CHICAGO	IL	60647
659	3.	10.90	9.	10.	1.	1.	CHICAGO	IL	60656
660	4.	11.47	3.	14.	2.	1.	APPLE RIVER	IL	61001
661	4.	14.07	2.	10.	4.	1.	ROCKFORD	IL	61109
662	3.	13.55	9.	9.	1.	1.	LOVES PARK	IL	61111
663	4.	7.88	2.	10.	4.	1.	ROCK ISLAND	IL	61201
664	2.	11.83	6.	10.	1.	1.	OGLESBY	IL	61348
665	3.	11.38	5.	14.	2.	1.	OGLESBY	IL	61348
666	4.	14.95	9.	9.	2.	1.	GALESBURG	IL	61401
667	1.	14.28	7.	9.	2.	1.	KEWANEE	IL	61443
668	2.	18.50	8.	2.	3.	1.	ROSEVILLE	IL	61473
669	4.	10.75	2.	10.	4.	1.	MORTON	IL	61550
670	3.	15.72	9.	9.	1.	1.	WASHINGTON	IL	61571
671	4.	9.40	2.	10.	4.	1.	PEORIA	IL	61604
672	1.	8.48	2.	13.	4.	1.	PEORIA	IL	61604
673	4.	19.37	2.	10.	4.	1.	PEORIA	IL	61614
674	4.	8.33	2.	10.	4.	1.	BLOOMINGTON	IL	61701
675	1.	19.03	9.	6.	2.	1.	COLFAX	IL	61728
676	1.	10.55	2.	9.	4.	1.	WESTVILLE	IL	61883

677	5.	13.[illegible]	5.	10.	2.	1.	PARIS	IL	61944
678	1.	13.34	7.	4.	2.	1.	GRANITE CITY	IL	62025
679	1.	11.48	5.	4.	2.	1.	LITCHFIELD	IL	62056
680	2.	9.45	5.	7.	1.	1.	EAST ST LOUIS	IL	62201
681	2.	19.13	8.	3.	1.	1.	FAIRMONT CITY	IL	62201
682	1.	22.17	8.	2.	3.	1.	CAVE-IN-ROCK	IL	62919
683	2.	20.26	8.	3.	3.	1.	MANCHESTER	MO	63011
684	2.	19.47	8.	3.	3.	1.	BALLWIN	MO	63011
685	3.	11.72	5.	9.	1.	1.	FLORISSANT	MO	63031
686	2.	15.67	8.	3.	3.	2.	WEBSTER GRV	MO	63119
687	2.	13.41	5.	5.	2.	1.	ST LOUIS	MO	63121
688	3.	14.00	7.	9.	1.	1.	ST CHARLES	MO	63301
689	2.	11.39	1.	10.	2.	1.	KANSAS CITY	MO	64131
690	1.	11.26	7.	9.	2.	1.	KANSAS CITY	MO	64138
691	6.	12.05	5.	15.	2.	1.	KANSAS CITY	MO	64151
692	1.	12.17	6.	12.	2.	1.	JAMESTOWN	MO	65046
693	3.	13.18	5.	6.	2.	1.	KANSAS CITY	KS	66109
694	6.	11.37	5.	10.	2.	1.	PRAIRIE VILLAGE	KS	66208
695	4.	12.35	9.	9.	2.	1.	LENEXA	KS	66215
696	4.	16.48	9.	2.	2.	1.	WAMEGO	KS	66547
697	3.	14.73	9.	7.	1.	1.	TOPEKA	KS	66614
698	1.	14.35	6.	2.	3.	2.	CHANUTE	KS	66720
699	1.	12.22	7.	9.	2.	1.	COLUMBUS	KS	66725
700	1.	14.44	4.	6.	2.	1.	FREDONIA	KS	66736
701	1.	25.32	6.	3.	3.	2.	EMPORIA	KS	66801
702	1.	16.78	2.	12.	2.	1.	BELLE PLAINE	KS	67013
703	1.	11.32	6.	9.	2.	1.	WICHITA	KS	67203
704	3.	13.55	9.	6.	4.	2.	WICHITA	KS	67203
705	3.	13.80	5.	14.	2.	1.	SALINA	KS	67401
706	1.	14.42	9.	9.	2.	1.	OLMITZ	KS	67554
707	1.	17.74	1.	4.	2.	1.	ZURICH	KS	67676
708	2.	16.11	1.	9.	1.	1.	MC DONALD	KS	67745
709	4.	12.11	9.	9.	2.	1.	OMAHA	NE	68106
710	2.	9.94	5.	14.	2.	1.	LINCOLN	NE	68506
711	4.	12.97	5.	14.	3.	1.	LINCOLN	NE	68506
712	3.	13.50	9.	7.	1.	1.	COLUMBUS	NE	68601
713	1.	12.39	2.	9.	4.	1.	HAIGLER	NE	69030
714	4.	10.50	3.	14.	2.	1.	METAIRIE	LA	70005
715	2.	12.10	9.	9.	1.	1.	NEW ORLEANS	LA	70124
716	2.	8.17	1.	9.	1.	1.	NEW ORLEANS	LA	70126
717	1.	13.50	2.	12.	2.	1.	LAKE ARTHUR	LA	70549
718	4.	14.91	9.	9.	2.	1.	SULPHUR	LA	70663
719	4.	13.08	9.	9.	2.	1.	BATON ROUGE	LA	70805
720	2.	11.97	9.	9.	1.	1.	BATON ROUGE	LA	70811
721	4.	12.35	3.	14.	2.	1.	SPRINGHILL	LA	71075
722	2.	11.15	6.	12.	1.	1.	SHREVEPORT	LA	71106
723	6.	11.90	3.	15.	2.	1.	WALDO	AR	71770
724	1.	18.28	11.	8.	1.	1.	ARKADELPHIA	AR	71923
725	1.	23.88	8.	3.	3.	1.	PENCIL BLUFF	AR	71956
726	4.	11.37	5.	14.	3.	1.	JACKSONVILLE	AR	72076
727	2.	12.76	1.	9.	1.	1.	LITTLE ROCK	AR	72207
728	1.	20.49	8.	3.	3.	1.	ALIX	AR	72820
729	3.	14.69	5.	14.	2.	1.	FT SMITH	AR	72901
730	2.	10.67	1.	9.	1.	1.	GUTHRIE	OK	73044
731	1.	15.30	11.	8.	1.	1.	MIDWEST CITY	OK	73110
732	1.	13.11	2.	12.	2.	1.	OKLAHOMA CITY	OK	73112
733	1.	14.09	2.	12.	2.	1.	HEALDTON	OK	73438

731	1.	21.74	7.	6.	4.	2.	OVERBROOK	OK	73453
732	1.	14.42	7.	12.	2.	1.	GOULD	OK	73544
735	4.	11.55	8.	14.	2.	1.	SEILING	OK	73503
737	2.	12.26	8.	3.	3.	1.	ENID	OK	73701
738	4.	15.01	9.	10.	2.	1.	ENID	OK	73701
739	2.	23.76	8.	3.	3.	2.	BARTLESVILLE	OK	74003
740	1.	12.55	7.	9.	2.	1.	OWASSO	OK	74055
741	2.	15.10	5.	3.	3.	1.	TULSA	OK	74135
742	3.	11.45	5.	14.	2.	1.	TULSA	OK	74135
743	1.	12.74	2.	9.	4.	1.	NEWKIRK	OK	74647
744	1.	16.47	2.	9.	4.	1.	MEEKER	OK	74855
745	4.	11.21	5.	14.	3.	1.	SEMINOLE	OK	74868
746	6.	10.23	5.	15.	2.	1.	MULDROW	OK	74948
747	3.	15.06	9.	7.	1.	1.	IRVING	TX	75060
748	3.	14.34	5.	14.	2.	1.	CANTON	TX	75103
749	1.	13.02	7.	9.	2.	1.	DESOTO	TX	75115
750	1.	9.45	1.	9.	2.	1.	DALLAS	TX	75209
751	4.	13.14	3.	14.	2.	1.	DALLAS	TX	75228
752	1.	10.71	7.	9.	2.	1.	DALLAS	TX	75229
753	3.	14.62	1.	10.	1.	1.	DALLAS	TX	75231
754	3.	12.72	3.	14.	1.	1.	DALLAS	TX	75231
755	4.	18.50	1.	5.	1.	2.	DALLAS	TX	75231
756	4.	12.50	9.	9.	4.	1.	FT WORTH	TX	76109
757	4.	10.26	5.	15.	2.	1.	FT WORTH	TX	76133
758	1.	14.89	6.	9.	2.	1.	FORT WORTH	TX	76134
759	6.	13.06	3.	15.	2.	1.	FT WORTH	TX	76135
760	2.	15.10	9.	9.	1.	1.	SONORA	TX	76950
761	2.	13.25	7.	12.	1.	1.	HOUSTON	TX	77015
762	3.	14.40	9.	9.	1.	1.	HOUSTON	TX	77018
763	1.	13.54	7.	12.	2.	1.	HOUSTON	TX	77018
764	1.	13.38	6.	9.	2.	1.	HOUSTON	TX	77036
765	3.	14.14	9.	6.	2.	1.	HOUSTON	TX	77036
766	2.	14.96	9.	9.	1.	1.	HOUSTON	TX	77071
767	2.	11.05	7.	12.	1.	1.	HUNTSVILLE	TX	77340
768	2.	14.91	9.	9.	1.	1.	PORTER	TX	77365
769	2.	12.35	6.	10.	1.	1.	PORTER	TX	77365
770	1.	12.66	7.	9.	2.	1.	EL CAMPO	TX	77437
771	3.	15.58	9.	9.	1.	1.	RICHMOND	TX	77469
772	2.	14.84	1.	9.	1.	1.	CLUTE	TX	77531
773	1.	26.96	8.	3.	3.	2.	FRIENDSWOOD	TX	77546
774	4.	12.71	9.	9.	4.	1.	FRIENDSWOOD	TX	77546
775	2.	14.02	7.	12.	1.	1.	SEABROOK	TX	77586
776	4.	11.88	9.	10.	2.	1.	BEAUMONT	TX	77700
777	1.	14.56	8.	3.	3.	1.	SHINER	TX	77984
778	3.	13.49	9.	9.	1.	1.	LAREDO	TX	78040
779	2.	10.84	9.	9.	1.	1.	SAN ANTONIO	TX	78216
780	3.	16.68	9.	10.	1.	1.	SAN ANTONIO	TX	78218
781	1.	11.81	7.	9.	2.	1.	SAN ANTONIO	TX	78230
782	3.	16.16	9.	6.	2.	1.	SAN ANTONIO	TX	78230
783	4.	13.57	5.	14.	3.	1.	SAN ANTONIO	TX	78230
784	3.	11.36	5.	14.	2.	1.	SAN ANTONIO	TX	78239
785	3.	11.62	5.	14.	2.	1.	SAN ANTONIO	TX	78242
786	4.	11.85	5.	14.	3.	1.	ALICE	TX	78332
787	3.	10.94	5.	14.	2.	1.	PORTLAND	TX	78374
788	4.	12.30	3.	14.	2.	1.	AMARILLO	TX	79109
789	4.	10.33	9.	9.	2.	1.	LUBBOCK	TX	79414
790	4.	8.01	5.	14.	3.	1.	ABILENE	TX	79605

791	1.	12.27	9.	9.	2.	1.	EL PASO	TX	79908
792	1.	11.[illegible]	9.	9.	2.	1.	DENVER	CO	80211
793	3.	13.[illegible]	9.	1[illegible].	1.	1.	STEAMBOAT SPRGS	CO	80477
794	4.	23.[illegible]	11.	5.	1.	1.	STEAMBOAT SPR	CO	80477
795	1.	11.80	1.	9.	2.	1.	COLORADO SPG	CO	80907
796	1.	27.2[illegible]	8.	3.	3.	2.	PUEBLO	CO	81001
797	3.	16.[illegible]9	5.	14.	2.	1.	CRAIG	CO	81625
798	2.	11.45	9.	9.	1.	1.	ROCK SPRINGS	WY	82901
799	2.	20.74	8.	3.	3.	2.	EVANSTON	WY	82930
800	4.	11.97	9.	15.	2.	1.	BOISE	ID	83705
801	1.	12.85	9.	9.	2.	1.	CLEARFIELD	UT	84015
802	4.	12.[illegible]4	9.	1[illegible].	2.	1.	MURRAY	UT	84107
803	1.	11.73	7.	9.	2.	1.	HYDE PARK	UT	84318
804	1.	23.85	8.	3.	3.	2.	PROVO	UT	84601
805	2.	13.45	9.	9.	1.	1.	PHOENIX	AZ	85035
806	1.	14.57	6.	10.	4.	1.	MESA	AZ	85205
807	1.	21.33	8.	3.	3.	2.	SCOTTSDALE	AZ	85253
808	4.	9.42	5.	14.	3.	1.	YUMA	AZ	85364
809	2.	17.56	9.	9.	1.	1.	GLOBE	AZ	85501
810	1.	14.36	1.	12.	2.	1.	BENSON	AZ	85602
811	4.	12.90	3.	14.	2.	1.	TUBAC	AZ	85640
812	3.	16.15	9.	9.	1.	1.	TUCSON	AZ	85716
813	1.	17.77	8.	3.	3.	1.	LOS ALAMOS	NM	87544
814	1.	28.28	8.	3.	3.	2.	ARTESIA	NM	88210
815	6.	12.20	5.	15.	2.	1.	GLENDALE	NV	89025
816	2.	20.75	[illegible]	3.	3.	1.	LAS VEGAS	NV	89109
817	1.	15.68	6.	3.	3.	2.	RENO	NV	89507
818	4.	11.54	9.	15.	2.	1.	LOS ANGELES	CA	90021
819	1.	14.50	9.	5.	4.	1.	LOS ANGELES	CA	90027
820	2.	17.51	5.	3.	3.	1.	LOS ANGELES	CA	90049
821	2.	11.67	9.	10.	1.	1.	BELL GARDENS	CA	90201
822	1.	12.97	8.	3.	5.	1.	TORRANCE	CA	90505
823	1.	16.28	8.	3.	3.	1.	LA MIRADA	CA	90638
824	2.	21.39	8.	3.	3.	2.	SAN PEDRO	CA	90731
825	2.	14.35	6.	10.	1.	1.	SAN PEDRO	CA	90731
826	2.	16.97	8.	3.	3.	1.	LONG BEACH	CA	90805
827	1.	18.84	11.	3.	5.	1.	THOUSAND OAKS	CA	91360
828	2.	24.22	8.	3.	3.	2.	THOUSAND OAKS	CA	91360
829	2.	25.73	8.	3.	3.	1.	WOODLAND HLS	CA	91364
830	3.	11.84	9.	10.	1.	1.	SHERMAN OAKS	CA	91403
831	1.	13.22	7.	10.	2.	1.	VAN NUYS	CA	91411
832	3.	13.27	9.	10.	1.	1.	BALDWIN PARK	CA	91706
833	1.	9.38	1.	10.	2.	1.	COVINA	CA	91722
834	2.	19.25	8.	3.	3.	1.	COVINA	CA	91723
835	2.	19.33	2.	3.	3.	2.	LA PUENTE	CA	91746
836	2.	17.12	8.	3.	3.	1.	WEST COVINA	CA	91790
837	1.	12.13	1.	10.	2.	1.	LA JOLLA	CA	92037
838	1.	17.97	8.	3.	3.	1.	LA JOLLA	CA	92037
839	2.	18.94	8.	3.	3.	2.	SPRING VLY	CA	92077
840	1.	13.13	9.	10.	4.	1.	SAN DIEGO	CA	92104
841	2.	21.27	8.	3.	3.	2.	SAN DIEGO	CA	92122
842	3.	11.96	9.	10.	1.	1.	SAN DIEGO	CA	92126
843	3.	20.58	11.	5.	1.	1.	SAN DIEGO	CT	92126
844	1.	14.00	6.	10.	4.	1.	BEAUMONT	CA	92223
845	1.	13.21	1.	12.	2.	1.	YERMO	CA	92311
846	3.	14.37	9.	10.	1.	1.	RIVERSIDE	CA	92504
847	6.	11.80	5.	15.	2.	1.	HUNTINGTON BCH	CA	92646

848	1.	2[illegible]	[illegible]	3.	3.	2.	PORT HUENEME	CA	93041
849	2.	13.72	[illegible]	15.	[illegible]	1.	LEMOORE	CA	93245
850	3.	12.21	5.	15.	2.	1.	BAKERSFIELD	CA	93309
851	3.	14.39	9.	10.	1.	1.	LOS OSOS	CA	93402
852	1.	13.5[illegible]	[illegible]	15.	2.	1.	GROVER CITY	CA	93433
853	2.	[illegible]	[illegible]	3.	3.	1.	SUNNYVALE	CA	94087
854	3.	14.77	[illegible]	3.	3.	1.	SAN FRANCISCO	CA	94118
855	3.	14.[illegible]	[illegible]	10.	1.	1.	SAN FRANCISCO	CA	94134
856	1.	13.[illegible]	7.	10.	2.	1.	MORAGA	CA	94556
857	1.	10.[illegible]	7.	[illegible]	2.	1.	RICHMOND	CA	94806
858	1.	13.[illegible]	[illegible]	10.	4.	1.	COTATI	CA	94928
859	2.	19.[illegible]	[illegible]	3.	3.	2.	BOULDER CREEK	CA	95006
860	1.	22.[illegible]	[illegible]	3.	3.	2.	SAN JOSE	CA	95119
861	2.	[illegible]	8.	3.	3.	2.	SAN JOSE	CA	95123
862	2.	17.[illegible]	8.	3.	5.	1.	KENWOOD	CA	95452
863	3.	9.37	9.	10.	1.	1.	MAGALIA	CA	95954
864	1.	16.50	8.	3.	3.	2.	ST HELENS	OR	97051
865	3.	14.[illegible]	9.	7.	1.	1.	PORTLAND	OR	97206
866	4.	[illegible]	[illegible]	14.	3.	1.	SALEM	OR	97302
867	1.	21.[illegible]	[illegible]	3.	3.	1.	SALEM	OR	97302
868	1.	24.75	[illegible]	3.	3.	1.	SALEM	OR	97303
869	4.	[illegible]	9.	9.	2.	1.	EUGENE	OR	97405
870	1.	11.[illegible]	[illegible]	9.	4.	1.	BANDON	OR	97411
871	1.	[illegible]	[illegible]	12.	2.	1.	ROSEBURG	OR	97470
872	1.	9.32	[illegible]	9.	4.	1.	BELLEVUE	WA	98006
873	3.	11.74	9.	10.	1.	1.	SEATTLE	WA	98107
874	2.	17.[illegible]	5.	3.	3.	2.	SEATTLE	WA	98148
875	1.	15.[illegible]	9.	8.	2.	1.	TACOMA	WA	98407
876	1.	14.[illegible]	[illegible]	10.	[illegible]	1.	TACOMA	WA	98466
877	1.	15.47	[illegible]	6.	2.	1.	TACOMA	WA	98466
878	3.	12.[illegible]	[illegible]	7.	1.	1.	HONOLULU	HI	98815
879	1.	17.[illegible]	[illegible]	3.	3.	1.	YAKIMA	WA	98902
880	1.	19.[illegible]	[illegible]	3.	3.	1.	CHEWELAH	WA	99109
881	1.	24.[illegible]	8.	3.	3.	2.	SPOKANE	WA	99207
882	4.	10.50	5.	14.	3.	1.	SPOKANE	WA	99208
883	3.	16.21	9.	10.	1.	1.	OTHELLO	WA	99344
884	1.	13.36	1.	9.	2.	1.	JUNEAU	AK	99802
885	3.	14.82	9.	6.	2.	1.	AMHERST	MA	1002
886	1.	11.01	2.	12.	4.	1.	SPRINGFIELD	MA	1119
887	4.	14.66	1.	10.	2.	1.	GREENFIELD	MA	1301
888	2.	10.95	7.	12.	1.	1.	FRAMINGHAM	MA	1701
889	3.	19.00	11.	5.	1.	1.	FRAMINGHAM	MA	1701
890	3.	18.93	9.	7.	1.	1.	CHELMSFORD	MA	1824
891	3.	14.02	2.	10.	2.	1.	METHUEN	MA	1844
892	4.	19.44	9.	5.	2.	1.	LOWELL	MA	1851
893	2.	18.38	9.	6.	2.	1.	SAUGUS	MA	1906
894	1.	12.99	1.	9.	2.	1.	MEDFIELD	MA	2052
895	3.	9.71	2.	11.	1.	1.	ALLSTON	MA	2134
896	1.	14.1[illegible]	9.	8.	2.	1.	CAMBRIDGE	MA	2139
897	3.	15.3[illegible]	9.	7.	1.	1.	BELMONT	MA	2178
898	3.	15.64	11.	5.	1.	2.	NEEDHAM	MA	2194
899	3.	14.3[illegible]	2.	10.	2.	1.	HALIFAX	MA	2338
900	4.	14.39	1.	9.	2.	1.	HANOVER	MA	2339
901	1.	19.58	8.	2.	3.	1.	HOLBROOK	MA	2343
902	2.	20.36	8.	3.	3.	1.	WEST YARMOUTH	MA	2673
903	1.	22.61	8.	3.	3.	1.	GREENVILLE	RI	2828
904	1.	12.9[illegible]	7.	9.	2.	1.	LINCOLN	RI	2865

905	4.	11.15	5.	14.	2.	1.	WARWICK	RI	2886
906	6.	8.55	5.	15.	2.	1.	WARWICK	RI	2888
907	2.	24.20	8.	3.	3.	1.	RIVERSIDE	RI	2915
908	2.	11.03	6.	14.	2.	1.	CHESTER	NH	3036
909	4.	24.52	11.	5.	1.	1.	NASHUA	NH	3060
910	2.	14.[illegible]	6.	10.	2.	1.	MANCHESTER	NH	3102
911	4.	12.13	3.	14.	2.	1.	MANCHESTER	NH	3104
912	2.	14.37	8.	12.	4.	2.	PLYMOUTH	NH	3264
913	2.	28.32	8.	3.	3.	2.	CUNDYS HARBOR	ME	4011
914	1.	19.23	9.	5.	2.	1.	LIMERICK	ME	4048
915	3.	17.92	9.	6.	2.	1.	SANFORD	ME	4073
916	1.	15.48	6.	9.	4.	1.	E STONEHAM	ME	4231
917	4.	17.75	1.	5.	2.	1.	LIVERMORE FAL	ME	4254
918	4.	16.46	8.	14.	2.	1.	BARRE	VT	5641
919	1.	18.93	8.	5.	4.	2.	VERNON	CT	5066
920	2.	21.97	8.	3.	3.	1.	COLUMBIA	CT	6237
921	2.	11.52	7.	12.	1.	1.	NEW LONDON	CT	6320
922	2.	24.18	9.	3.	3.	2.	GALES FERRY	CT	6335
923	1.	20.45	11.	3.	5.	1.	GROTON	CT	6340
924	1.	17.21	8.	3.	3.	1.	NORWICH	CT	6360
925	1.	15.84	9.	5.	2.	1.	SOUTHBURY	CT	6488
926	2.	14.73	1.	11.	1.	1.	WALLINGFORD	CT	6492
927	4.	15.75	1.	9.	2.	1.	WOODBRIDGE	CT	6525
928	3.	14.54	4.	6.	2.	1.	BRIDGEPORT	CT	6610
929	4.	16.50	7.	7.	4.	1.	BRIDGEPORT	CT	6610
930	2.	18.38	6.	3.	3.	1.	RIDGEFIELD	CT	6877
931	2.	13.54	3.	11.	1.	1.	ESSEX FELLS	NJ	7021
932	3.	12.43	7.	7.	1.	1.	VERONA	NJ	7044
933	6.	9.58	3.	15.	2.	1.	VERONA	NJ	7044
934	2.	11.92	7.	12.	1.	1.	ORANGE	NJ	7050
935	3.	15.27	2.	10.	2.	1.	SHORT HILLS	NJ	7078
936	4.	16.35	11.	5.	1.	1.	UNION	NJ	7083
937	3.	13.15	2.	10.	2.	1.	WESTFIELD	NJ	7090
938	4.	12.76	1.	9.	2.	1.	LITTLE FALLS	NJ	7424
939	2.	19.48	9.	6.	2.	1.	OAKLAND	NJ	7436
940	2.	16.95	9.	6.	2.	1.	WAYNE	NJ	7470
941	6.	13.50	3.	15.	2.	1.	WYCKOFF	NJ	7481
942	1.	15.49	6.	9.	2.	2.	PATERSON	NJ	7503
943	4.	15.29	1.	5.	2.	1.	PATERSON	NJ	7504
944	1.	11.18	2.	9.	4.	1.	HAWTHORNE	NJ	7506
945	1.	15.96	8.	3.	3.	1.	MONTVALE	NJ	7645
946	4.	16.59	11.	5.	1.	1.	NEW MILFORD	NJ	7546
947	4.	16.20	9.	7.	2.	1.	PARAMUS	NJ	7652
948	1.	18.79	11.	8.	1.	2.	ATLANTIC HGHL	NJ	7716
949	1.	18.99	11.	8.	1.	1.	LINCROFT	NJ	7738
950	3.	13.49	2.	10.	2.	1.	LINCROFT	NJ	7738
951	4.	10.72	5.	14.	3.	1.	MORRISTOWN	NJ	7960
952	2.	31.56	8.	3.	3.	2.	MULLICA HILL	NJ	8062
953	4.	9.37	3.	14.	2.	1.	TOMS RIVER	NJ	8753
954	1.	16.33	9.	6.	2.	1.	STATEN ISLAND	NY	10309
955	4.	13.51	9.	5.	4.	1.	BRONX	NY	10466
956	6.	9.21	3.	15.	2.	1.	NEW YORK	NY	10467
957	3.	15.58	9.	7.	1.	1.	MT VERNON	NY	10552
958	4.	7.09	1.	9.	2.	1.	NEW ROCHELLE	NY	10801
959	1.	16.06	6.	10.	4.	1.	BROOKLYN	NY	11201
960	4.	7.53	2.	14.	3.	1.	BROOKLYN	NY	11208
961	4.	8.96	3.	14.	2.	1.	WHITESTONE	NY	11357

962	2.	11.37	7.	12.	1.	1.	ELMHURST	NY	11373
963	2.	11.24	1.	9.	1.	1.	MINEOLA	NY	11501
964	1.	15.75	11.	5.	1.	1.	WOODMERE	NY	11598
965	1.	17.12	9.	8.	2.	1.	BETHPAGE	NY	11714
966	4.	11.52	2.	13.	9.	1.	N MASSAPEQUA	NY	11758
967	4.	16.28	9.	5.	2.	1.	JERICHO	NY	11793
968	4.	22.55	11.	5.	1.	2.	C MORICHES	NY	11934
969	4.	12.14	3.	14.	2.	1.	REXFORD	NY	12148
970	1.	11.91	9.	9.	2.	1.	PT JERVIS	NY	12771
971	2.	11.99	2.	11.	1.	1.	LIVERPOOL	NY	13088
972	1.	22.72	5.	3.	3.	1.	SYR	NY	13205
973	1.	17.05	9.	6.	2.	1.	SYRACUSE	NY	13207
974	1.	13.90	1.	9.	2.	1.	AFTON	NY	13730
975	4.	15.01	1.	10.	4.	1.	BATAVIA	NY	14020
976	3.	12.16	2.	10.	2.	1.	LEWISTON	NY	14092
977	1.	15.77	6.	6.	2.	1.	LOCKPORT	NY	14094
978	1.	15.80	11.	8.	3.	1.	LOCKPORT	NY	14094
979	3.	14.27	1.	7.	2.	1.	KENMORE	NY	14223
980	3.	16.34	9.	6.	2.	1.	NIAGARA FALLS	NY	14304
981	1.	16.25	9.	8.	2.	1.	CANANDAIGUA	NY	14424
982	3.	18.19	9.	6.	2.	1.	CLYDE	NY	14433
983	1.	26.25	8.	3.	3.	2.	HENRIETTA	NY	14467
984	2.	10.74	6.	9.	1.	1.	PITTSFORD	NY	14534
985	1.	22.66	8.	2.	3.	2.	ROCH	NY	14613
986	3.	13.65	9.	7.	1.	1.	ROCHESTER	NY	14617
987	1.	14.63	1.	9.	2.	1.	ROCHESTER	NY	14624
988	4.	15.35	9.	5.	2.	1.	ROCHESTER	NY	14624
989	1.	19.77	1.	6.	2.	1.	CUBA	NY	14727
990	4.	13.52	1.	9.	2.	1.	CORNING	NY	14830
991	4.	18.31	9.	6.	4.	1.	PINE CITY	NY	14871
992	2.	12.97	9.	7.	1.	1.	BEAVER FALLS	PA	15010
993	4.	18.42	11.	5.	1.	2.	BEAVER FALLS	PA	15010
994	2.	12.28	9.	9.	1.	1.	CLAIRTON	PA	15025
995	3.	12.74	9.	8.	2.	1.	NATRONA HEIGHTS	PA	15065
996	2.	13.17	9.	7.	1.	1.	OAKDALE	PA	15071
997	3.	11.50	2.	10.	2.	1.	GLENSHAW	PA	15116
998	2.	11.44	1.	9.	1.	1.	MUNHALL	PA	15120
999	1.	20.16	8.	3.	3.	1.	SEWICKLEY	PA	15143
1000	3.	10.98	9.	7.	1.	1.	PITTSBURGH	PA	15227
1001	2.	18.49	9.	6.	4.	2.	PITTSBURGH	PA	15235
1002	3.	17.13	2.	10.	2.	1.	PITTSBURGH	PA	15243
1003	1.	19.83	11.	8.	1.	2.	WASHINGTON	PA	15301
1004	2.	15.20	7.	12.	1.	1.	HOUSTON	PA	15342
1005	2.	18.48	8.	3.	3.	1.	DELMONT	PA	15626
1006	3.	13.59	2.	14.	2.	1.	LATROBE	PA	15650
1007	1.	17.24	11.	8.	3.	1.	PUNXSUTAWNEY	PA	15767
1008	2.	14.31	6.	9.	1.	1.	SPANGLER	PA	15775
1009	1.	14.31	7.	9.	2.	1.	HOLLSOPPLE	PA	15935
1010	2.	11.08	2.	12.	2.	1.	BUTLER	PA	16001
1011	2.	15.53	9.	7.	1.	1.	MARS	PA	16046
1012	1.	13.23	2.	12.	2.	1.	KITTANNING	PA	16201
1013	3.	15.19	9.	6.	2.	1.	OIL CITY	PA	16301
1014	3.	12.94	5.	14.	2.	1.	OIL CITY	PA	16301
1015	3.	12.12	2.	14.	1.	1.	FAIRVIEW	PA	16415
1016	2.	16.68	8.	3.	3.	1.	BRADFORD	PA	16701
1017	2.	14.89	1.	9.	1.	1.	STATE COLLEGE	PA	16801
1018	2.	17.93	1.	9.	1.	1.	WELLSBORO	PA	16901

1019	2.	14.52	7.	7.	1.	1.	CAMP HILL	PA	17011
1020	2.	11.06	2.	12.	2.	1.	MECHANICSBURG	PA	17055
1021	1.	13.46	5.	10.	4.	2.	HARRISBURG	PA	17104
1022	1.	11.95	7.	6.	2.	1.	HARRISBURG	PA	17109
1023	2.	20.15	5.	5.	3.	1.	WAYNESBORO	PA	17268
1024	2.	14.75	6.	9.	1.	1.	EAST BERLIN	PA	17316
1025	4.	8.24	3.	14.	2.	1.	MCSHERRYSTOWN	PA	17344
1026	1.	17.71	11.	3.	3.	1.	RED LION	PA	17356
1027	1.	12.51	3.	12.	2.	1.	PARADISE	PA	17362
1028	2.	11.01	2.	14.	2.	1.	DANVILLE	PA	17821
1029	1.	21.65	11.	3.	3.	1.	ZION GROVE	PA	17985
1030	1.	12.81	7.	9.	2.	1.	BETHLEHEM	PA	18017
1031	1.	19.57	11.	3.	1.	2.	PEN ARGYL	PA	18072
1032	2.	14.98	7.	12.	1.	1.	LEHIGHTON	PA	18235
1033	2.	12.53	2.	12.	2.	1.	MOSCOW	PA	18444
1034	3.	14.57	1.	10.	2.	1.	NUANGOLA	PA	18637
1035	4.	8.95	3.	14.	2.	1.	AMBLER	PA	19002
1036	1.	15.44	1.	9.	2.	1.	FLOURTOWN	PA	19031
1037	4.	15.45	9.	10.	2.	1.	ORELAND	PA	19075
1038	1.	12.76	9.	8.	2.	1.	PHILA	PA	19111
1039	4.	9.19	1.	13.	2.	1.	PHILADELPHIA	PA	19111
1040	6.	10.24	3.	15.	2.	1.	PHILADELPHIA	PA	19126
1041	2.	13.34	9.	6.	2.	1.	NORRISTOWN	PA	19401
1042	1.	10.32	2.	9.	4.	1.	WILM	DE	19802
1043	2.	11.84	7.	12.	1.	1.	WILMINGTON	DE	19803
1044	2.	10.43	5.	15.	2.	1.	WILMINGTON	DE	19810
1045	3.	10.70	3.	14.	1.	1.	WASHINGTON	DC	20011
1046	1.	21.78	4.	3.	3.	1.	WASHINGTON	DC	20024
1047	2.	19.53	5.	3.	3.	1.	LAUREL	MD	20811
1048	2.	12.90	3.	14.	1.	1.	SAVAGE	MD	20863
1049	2.	14.38	2.	9.	1.	1.	GLEN BURNIE	MD	21061
1050	6.	11.19	3.	15.	2.	1.	PHOENIX	MD	21131
1051	2.	16.58	9.	7.	1.	1.	RANDALLSTOWN	MD	21135
1052	2.	14.11	2.	11.	1.	1.	SEVERNA PARK	MD	21146
1053	4.	13.88	2.	10.	4.	1.	BALTIMORE	MD	21222
1054	3.	14.61	1.	10.	1.	1.	FLINTSTONE	MD	21530
1055	1.	26.82	8.	3.	3.	2.	HAGERSTOWN	MD	21740
1056	3.	14.17	1.	10.	1.	1.	HAGERSTOWN	MD	21740
1057	3.	14.20	2.	10.	2.	1.	MAUGANSVILLE	MD	21767
1058	1.	13.24	1.	9.	2.	1.	FALLS CHURCH	VA	22042
1059	1.	19.53	8.	3.	3.	1.	SPRINGFIELD	VA	22153
1060	3.	17.62	9.	7.	1.	1.	VIENNA	VA	22180
1061	4.	13.80	2.	10.	4.	1.	ARLINGTON	VA	22204
1062	3.	13.78	9.	7.	1.	1.	RICHMOND	VA	23226
1063	3.	16.96	11.	5.	1.	2.	ROANOKE	VA	24013
1064	4.	14.33	11.	5.	1.	2.	MONTGOMERY	WV	25136
1065	1.	12.94	2.	9.	4.	1.	CHARLESTON	WV	25312
1066	3.	12.08	2.	10.	2.	1.	WHEELING	WV	26003
1067	6.	11.52	3.	15.	2.	1.	ASHEBORO	NC	27203
1068	4.	14.71	9.	5.	2.	1.	ELON COLLEGE	NC	27244
1069	6.	11.59	5.	15.	2.	1.	JAMESTOWN	NC	27282
1070	1.	15.25	7.	9.	2.	1.	KERNERSVILLE	NC	27284
1071	4.	9.44	3.	14.	2.	1.	GREENSBORO	NC	27403
1072	2.	15.07	1.	12.	1.	1.	CULPEPPER	VA	27701
1073	4.	9.92	3.	14.	2.	1.	GREENVILLE	NC	27834
1074	3.	14.72	3.	14.	1.	1.	HARRISBURG	NC	28075
1075	4.	13.11	9.	7.	4.	1.	SHELBY	NC	28150

1076	3.	15.32	9.	7.	1.	1.	FAYETTEVILLE	NC	28301
1077	3.	17.47	11.	5.	1.	1.	FAYETTEVILLE	NC	28302
1078	1.	18.57	5.	3.	3.	2.	FAYETTEVILLE	NC	28303
1079	3.	16.41	9.	7.	1.	1.	HENDERSONVILLE	NC	28739
1080	3.	12.28	3.	14.	1.	1.	SPARTANBURG	SC	29300
1081	1.	23.11	11.	3.	5.	2.	HILTON HEAD I	SC	29928
1082	1.	17.13	5.	5.	2.	1.	CANTON	GA	30114
1083	1.	14.92	7.	9.	2.	1.	GRAYSON	GA	30221
1084	4.	11.89	3.	14.	2.	1.	HAMPTON	GA	30228
1085	2.	15.30	3.	3.	3.	1.	ATLANTA	GA	30310
1086	3.	11.57	2.	14.	1.	1.	EAST POINT	GA	30344
1087	3.	14.24	1.	10.	1.	1.	OGLETHORPE	GA	31068
1088	3.	14.52	2.	10.	2.	1.	LAWTEY	FL	32058
1089	3.	19.05	11.	5.	1.	1.	NEW SMYRNA BCH	FL	32069
1090	2.	12.10	9.	7.	1.	1.	TALLAHASSEE	FL	32303
1091	1.	11.07	7.	9.	2.	1.	PERRY	FL	32347
1092	1.	16.50	11.	8.	1.	2.	PENSACOLA	FL	32504
1093	2.	11.79	1.	9.	1.	1.	MILTON	FL	32570
1094	3.	12.63	2.	10.	2.	1.	HOLLYWOOD	FL	33021
1095	1.	11.33	1.	9.	2.	1.	PEMBROKE PINE	FL	33024
1096	2.	13.19	9.	7.	1.	1.	MIAMI	FL	33147
1097	2.	11.89	9.	9.	1.	1.	W PALM BEACH	FL	33405
1098	3.	13.20	9.	7.	1.	1.	BRANDON	FL	33511
1099	2.	11.20	9.	6.	2.	1.	CLEARWATER	FL	33515
1100	3.	19.50	11.	5.	1.	1.	PALMETTO	FL	33561
1101	1.	16.31	9.	6.	2.	1.	PINELLAS PARK	FL	33565
1102	4.	9.61	3.	14.	2.	1.	TAMPA	FL	33611
1103	3.	22.50	11.	5.	1.	1.	BIRMINGHAM	AL	35209
1104	3.	11.62	5.	14.	2.	1.	BIRMINGHAM	AL	35209
1105	3.	20.26	11.	5.	1.	2.	HUNTSVILLE	AL	35802
1106	1.	11.27	1.	9.	2.	1.	MONTGOMERY	AL	36109
1107	1.	14.43	5.	9.	2.	1.	DOTHAN	AL	36301
1108	1.	14.07	2.	9.	4.	1.	ELBA	AL	36323
1109	2.	11.90	1.	9.	1.	1.	AUBURN	AL	36830
1110	1.	12.83	2.	9.	4.	1.	CMBRLND FRNCE	TN	37051
1111	2.	15.13	1.	6.	4.	1.	NASHVILLE	TN	37215
1112	1.	10.24	2.	12.	4.	1.	FAYETTEVILLE	TN	37334
1113	3.	13.01	2.	14.	1.	1.	CHATTANOOGA	TN	37416
1114	4.	14.80	1.	5.	2.	1.	KNOXVILLE	TN	37920
1115	2.	14.16	6.	12.	1.	1.	ARLINGTON	TN	38002
1116	3.	11.85	3.	14.	1.	1.	DYERSBURG	TN	38024
1117	2.	12.11	7.	12.	1.	1.	MEMPHIS	TN	38111
1118	4.	17.31	9.	7.	2.	1.	MEMPHIS	TN	38118
1119	1.	13.99	9.	8.	2.	1.	PARIS	TN	38242
1120	3.	14.68	2.	11.	1.	1.	SAVANNAH	TN	38372
1121	3.	16.05	2.	10.	2.	1.	CLIFTON	TN	38425
1122	4.	14.38	3.	14.	2.	1.	OXFORD	MS	38655
1123	1.	14.78	6.	10.	4.	2.	WALLS	MS	38680
1124	4.	11.01	2.	10.	4.	1.	CARROLLTON	MS	38917
1125	6.	11.21	3.	15.	2.	1.	JACKSON	MS	39206
1126	1.	13.19	1.	9.	4.	1.	JACKSON	MS	39209
1127	4.	18.00	11.	5.	1.	2.	BILOXI	MS	39530
1128	4.	17.95	9.	5.	2.	1.	WAVELAND	MS	39576
1129	4.	11.74	3.	14.	2.	1.	COLUMBUS	MS	39701
1130	1.	12.42	7.	9.	2.	1.	LOUISVILLE	KY	40201
1131	1.	16.21	8.	2.	3.	2.	LOUISVILLE	KY	40220
1132	3.	15.39	2.	10.	2.	1.	LOUISVILLE	KY	40229

1133	4.	11.12	3.	15.	2.	1.	LEXINGTON	KY	40502
1134	3.	23.01	3.	3.	3.	2.	LEXINGTON	KY	40504
1135	3.	13.35	7.	12.	2.	1.	SCOTTSVILLE	KY	42164
1136	1.	15.11	11.	8.	3.	1.	HOPKINSVILLE	KY	42240
1137	1.	13.11	1.	9.	2.	1.	HENDERSON	KY	42420
1138	4.	12.[illegible]	1.	9.	2.	1.	WORTHINGTON	OH	43085
1139	3.	13.84	2.	11.	1.	1.	AMANDA	OH	43102
1140	3.	14.26	5.	14.	1.	1.	CANAL WINCHESTR	OH	43110
1141	2.	14.39	9.	7.	1.	1.	COLUMBUS	OH	43204
1142	2.	13.15	7.	12.	1.	1.	COLUMBUS	OH	43212
1143	3.	14.55	5.	14.	2.	1.	COLUMBUS	OH	43213
1144	3.	15.35	1.	14.	1.	1.	COLUMBUS	OH	43229
1145	6.	12.14	2.	15.	2.	1.	KENTON	OH	43326
1146	2.	13.15	1.	9.	1.	1.	MAUMEE	OH	43537
1147	4.	17.28	11.	5.	1.	2.	TOLEDO	OH	43604
1148	2.	11.84	2.	11.	1.	1.	TOLEDO	OH	43612
1149	3.	16.55	3.	14.	1.	1.	TOLEDO	OH	43612
1150	4.	11.83	2.	15.	4.	1.	TOLEDO	OH	43623
1151	4.	14.23	5.	5.	4.	1.	NEWCOMERSTOWN	OH	43832
1152	2.	16.92	1.	10.	1.	1.	STEUBENVILLE	OH	43952
1153	2.	11.57	7.	12.	1.	1.	AVON	OH	44011
1154	2.	14.33	2.	12.	2.	1.	N RIDGEVILLE	OH	44039
1155	4.	18.94	1.	5.	2.	1.	MENTOR	OH	44060
1156	4.	16.27	1.	5.	2.	1.	NORTHFIELD	OH	44067
1157	1.	14.17	1.	9.	2.	1.	WELLINGTON	OH	44090
1158	4.	13.49	1.	9.	2.	1.	EASTLAKE	OH	44094
1159	1.	13.71	8.	2.	3.	1.	CLEVELAND	OH	44113
1160	1.	11.37	7.	8.	2.	1.	UNIVERSITY HT	OH	44118
1161	3.	15.74	11.	5.	1.	2.	BEACHWOOD	OH	44122
1162	2.	12.53	1.	11.	1.	1.	GARFIELD HTS	OH	44125
1163	3.	14.55	1.	10.	1.	1.	BAY VILLAGE	OH	44140
1164	1.	13.37	7.	9.	2.	1.	RICHMOND HTS	OH	44143
1165	3.	15.59	9.	7.	1.	1.	ATWATER	OH	44201
1166	3.	15.75	11.	5.	1.	1.	NORTON	OH	44203
1167	3.	16.01	1.	7.	2.	1.	CLINTON	OH	44216
1168	3.	11.53	5.	14.	2.	1.	CUYAHOGA FALLS	OH	44221
1169	2.	15.25	9.	9.	1.	1.	WARREN	OH	44484
1170	2.	14.52	7.	12.	1.	1.	YOUNGSTOWN	OH	44512
1171	2.	9.32	7.	12.	1.	1.	DOVER	OH	44622
1172	2.	16.15	1.	9.	1.	1.	EAST CANTON	OH	44730
1173	4.	8.52	1.	9.	2.	1.	SANDUSKY	OH	44870
1174	4.	12.36	5.	14.	3.	1.	MANSFIELD	OH	44906
1175	2.	14.30	6.	9.	1.	1.	HAMILTON	OH	45014
1176	3.	15.68	2.	14.	1.	1.	MAINEVILLE	OH	45039
1177	1.	20.79	8.	2.	3.	2.	MILFORD	OH	45150
1178	1.	12.27	7.	12.	2.	1.	CINCINNATI	OH	45215
1179	6.	9.39	5.	15.	2.	1.	CINCINNATI	OH	45216
1180	4.	13.27	1.	9.	2.	1.	CINCINNATI	OH	45226
1181	3.	12.73	5.	14.	2.	1.	BROOKVILLE	OH	45309
1182	3.	17.15	9.	7.	1.	1.	TROY	OH	45373
1183	1.	18.30	1.	9.	2.	1.	DAYTON	OH	45424
1184	1.	11.15	2.	9.	4.	1.	DAYTON	OH	45430
1185	1.	11.59	1.	12.	2.	1.	DAYTON	OH	45432
1186	1.	17.32	2.	12.	2.	1.	SPRINGFIELD	OH	45501
1187	2.	23.42	3.	3.	3.	2.	LIMA	OH	45804
1188	3.	13.57	3.	14.	2.	1.	FINDLAY	OH	45840
1189	4.	12.51	2.	10.	4.	1.	ALEXANDRIA	IN	46001

1190	1.	[illegible]	11.	[illegible]	3.	1.	WHITESTOWN	IN	46075
1191	3.	[illegible]	[illegible]	13.	2.	1.	COATESVILLE	IN	46121
1192	3.	14.35	3.	14.	1.	1.	GREENWOOD	IN	46162
1193	3.	15.75	1.	10.	1.	1.	INDIANAPOLIS	IN	46220
1194	3.	14.52	3.	14.	1.	1.	INDIANAPOLIS	IN	46224
1195	4.	13.24	1.	7.	2.	1.	SPEEDWAY	IN	46224
1196	2.	15.12	7.	7.	1.	1.	INDIANAPOLIS	IN	46226
1197	4.	12.3[illegible]	3.	14.	2.	1.	E CHICAGO	IN	46312
1198	4.	12.36	1.	5.	2.	1.	MUNSTER	IN	46321
1199	2.	11.53	5.	12.	4.	2.	HAMMOND	IN	46342
1200	4.	11.32	2.	10.	4.	1.	WANATAH	IN	46390
1201	2.	12.97	5.	14.	2.	1.	NEW CARLISLE	IN	46552
1202	1.	15.19	11.	8.	3.	1.	CHURUBUSCO	IN	46723
1203	1.	10.59	2.	9.	4.	1.	FT WAYNE	IN	46802
1204	3.	11.18	3.	14.	1.	1.	GREENSBURG	IN	47240
1205	1.	14.7[illegible]	7.	12.	2.	1.	BRYANT	IN	47326
1206	3.	16.11	2.	10.	2.	1.	PORTLAND	IN	47371
1207	4.	12.13	5.	14.	3.	1.	SELMA	IN	47383
1208	1.	16.69	1.	9.	2.	1.	JASONVILLE	IN	47438
1209	4.	13.20	2.	10.	4.	1.	MONROE CITY	IN	47557
1210	3.	12.56	3.	14.	1.	1.	TERRE HAUTE	IN	47804
1211	2.	12.71	2.	11.	1.	1.	BRAZIL	IN	47834
1212	3.	13.01	5.	14.	2.	1.	ALLENTON	MI	48002
1213	2.	14.19	6.	9.	1.	1.	BIRMINGHAM	MI	48009
1214	4.	16.55	9.	5.	1.	1.	FARMINGTON	MI	48024
1215	4.	12.61	3.	14.	2.	1.	FARMINGTON	MI	48024
1216	2.	14.17	6.	9.	1.	1.	W BLOOMFIELD	MI	48033
1217	2.	14.10	9.	7.	1.	1.	W BLOOMFIELD	MI	48033
1218	1.	12.77	2.	7.	4.	1.	LAKE ORION	MI	48035
1219	4.	16.20	2.	14.	4.	1.	MT CLEMENS	MI	48043
1220	2.	10.35	2.	11.	1.	1.	PONTIAC	MI	48053
1221	2.	16.92	2.	14.	3.	1.	ROYAL OAK	MI	48067
1222	6.	11.78	5.	15.	2.	1.	MADISON HTS	MI	48071
1223	2.	12.29	6.	9.	1.	1.	STERLING HTS	MI	48078
1224	4.	13.69	9.	5.	4.	1.	STERLING HGTS	MI	48078
1225	1.	14.29	2.	9.	4.	1.	ST CLAIR SHOR	MI	48082
1226	1.	19.47	8.	2.	3.	1.	WARREN	MI	48092
1227	2.	11.62	9.	7.	1.	1.	WARREN	MI	48092
1228	1.	14.88	1.	9.	2.	1.	WATERFORD	MI	48095
1229	1.	13.98	9.	6.	2.	1.	ANN ARBOR	MI	48103
1230	1.	21.65	8.	3.	3.	1.	ANN ARBOR	MI	48105
1231	4.	18.89	9.	5.	2.	1.	ANN ARBOR	MI	48105
1232	2.	12.96	7.	12.	1.	1.	DEARBORN	MI	48124
1233	4.	15.14	1.	10.	4.	1.	DEARBORN	MI	48126
1234	2.	12.06	2.	11.	1.	1.	DEARBORN HTS	MI	48127
1235	1.	20.29	11.	3.	5.	2.	GROSSE ILE	MI	48138
1236	1.	19.51	11.	8.	1.	2.	LIVONIA	MI	48154
1237	1.	17.49	9.	6.	2.	1.	MONROE	MI	48161
1238	3.	15.70	9.	7.	1.	1.	TAYLOR	MI	48180
1239	2.	12.58	7.	12.	1.	1.	HIGHLAND PARK	MI	48203
1240	1.	12.49	2.	9.	4.	1.	DETROIT	MI	48217
1241	2.	12.05	6.	9.	1.	1.	DETROIT	MI	48221
1242	3.	11.84	5.	14.	2.	1.	DETROIT	MI	48221
1243	4.	20.02	9.	7.	1.	1.	DETROIT	MI	48221
1244	4.	18.61	9.	5.	4.	1.	DETROIT	MI	48224
1245	3.	16.28	1.	10.	1.	1.	DETROIT	MI	48235
1246	1.	15.23	1.	9.	2.	1.	DURAND	MI	48429

1247	2.	16.63	1.	9.	1.	1.	METAMORA	MI	48455
1248	1.	17.08	6.	9.	2.	1.	FLINT	MI	48504
1249	4.	12.21	3.	14.	2.	1.	FLINT	MI	48504
1250	4.	14.94	1.	10.	4.	1.	SAGINAW	MI	48602
1251	4.	11.29	3.	14.	2.	1.	SAGINAW	MI	48602
1252	3.	13.95	2.	10.	2.	1.	HOLT	MI	48842
1253	1.	23.59	8.	3.	3.	2.	LANSING	MI	48910
1254	2.	13.78	2.	11.	1.	1.	KALAMAZOO	MI	49004
1255	1.	14.66	6.	9.	2.	2.	BATTLE CREEK	MI	49016
1256	3.	15.63	11.	5.	1.	2.	BATTLE CREEK	MI	49017
1257	3.	12.02	3.	14.	1.	1.	BATTLE CREEK	MI	49017
1258	3.	18.24	1.	10.	1.	1.	CENTREVILLE	MI	49032
1259	1.	25.44	11.	3.	5.	2.	PLAINWELL	MI	49080
1260	1.	15.03	2.	9.	4.	1.	JACKSON	MI	49201
1261	3.	16.55	1.	10.	1.	1.	BLISSFIELD	MI	49228
1262	1.	16.42	6.	9.	2.	1.	MUNITH	MI	49259
1263	4.	11.76	2.	10.	4.	1.	GRAND RAPIDS	MI	49505
1264	2.	16.26	1.	6.	2.	1.	GRAND RAPIDS	MI	49506
1265	4.	10.03	2.	10.	4.	1.	GRAND RAPIDS	MI	49507
1266	1.	29.92	8.	2.	3.	1.	LAKE CITY	MI	49651
1267	1.	15.24	2.	9.	4.	1.	ATLANTA	MI	49709
1268	3.	15.13	2.	10.	2.	1.	ROGERS CITY	MI	49779
1269	3.	12.95	2.	10.	2.	1.	MARQUETTE	MI	49855
1270	2.	15.32	2.	11.	1.	1.	ANKENY	IA	50021
1271	2.	15.15	1.	9.	1.	1.	LORIMOR	IA	50149
1272	3.	15.25	3.	14.	1.	1.	W DES MOINES	IA	50265
1273	1.	21.76	11.	3.	5.	2.	DES MOINES	IA	50310
1274	4.	21.55	11.	5.	1.	1.	DES MOINES	IA	50312
1275	1.	14.08	9.	8.	2.	1.	DES MOINES	IA	50322
1276	2.	23.10	8.	3.	3.	1.	BODE	IA	50519
1277	3.	13.43	2.	14.	1.	1.	CLARION	IA	50525
1278	1.	15.58	1.	9.	1.	1.	SAC CITY	IA	50583
1279	1.	17.86	6.	6.	4.	2.	HULL	IA	51239
1280	1.	26.10	8.	3.	3.	2.	OAKLAND	IA	51560
1281	2.	13.85	1.	10.	2.	1.	DUBUQUE	IA	52001
1282	3.	11.50	9.	7.	1.	1.	ANAMOSA	IA	52205
1283	3.	22.72	11.	5.	1.	2.	VINTON	IA	52349
1284	1.	16.04	11.	8.	3.	1.	WELLMAN	IA	52356
1285	1.	10.63	2.	12.	2.	1.	CEDAR RAPIDS	IA	52400
1286	2.	17.26	8.	3.	3.	1.	CEDAR RAPIDS	IA	52402
1287	3.	14.05	9.	7.	1.	1.	CEDAR RAPIDS	IA	52405
1288	4.	13.86	9.	5.	2.	1.	OTTUMWA	IA	52501
1289	2.	20.54	8.	3.	3.	1.	SHEBOYGAN FLS	WI	53085
1290	2.	16.15	1.	9.	1.	1.	WEST BEND	WI	53095
1291	2.	11.21	2.	11.	1.	1.	CUDAHY	WI	53110
1292	2.	16.16	1.	6.	2.	1.	MILWAUKEE	WI	53207
1293	2.	14.58	9.	9.	1.	1.	MILWAUKEE	WI	53209
1294	6.	9.83	5.	15.	2.	1.	MILWAUKEE	WI	53212
1295	1.	15.91	9.	6.	2.	1.	MILWAUKEE	WI	53213
1296	2.	13.55	1.	11.	1.	1.	BAYSIDE	WI	53217
1297	3.	16.40	1.	10.	1.	1.	BROWN DEER	WI	53223
1298	2.	14.09	6.	12.	4.	2.	MILWAUKEE	WI	53227
1299	3.	15.23	9.	7.	1.	1.	RACINE	WI	53403
1300	2.	13.97	6.	10.	4.	2.	MADISON	WI	53713
1301	3.	15.99	11.	5.	1.	1.	PLATTEVILLE	WI	53818
1302	2.	16.52	9.	9.	1.	1.	WOODVILLE	WI	54028
1303	2.	11.85	7.	12.	1.	1.	GREEN BAY	WI	54302

1304	1.	12.34	1.	7.	2.	1.	GREEN BAY	WI	54303
1305	2.	15.12	6.	11.	1.	1.	GREEN BAY	WI	54303
1306	1.	15.25	1.	9.	4.	1.	WAUSAU	WI	54401
1307	2.	15.55	2.	11.	1.	1.	WAUSAU	WI	54401
1308	1.	14.42	7.	9.	2.	1.	BOYCEVILLE	WI	54725
1309	1.	21.91	11.	3.	3.	1.	BRUCE	WI	54819
1310	2.	15.79	9.	7.	1.	1.	SUPERIOR	WI	54880
1311	2.	14.35	1.	9.	1.	1.	MENASHA	WI	54952
1312	4.	12.72	1.	9.	2.	1.	NO ST PAUL	MN	55109
1313	2.	17.12	9.	7.	1.	1.	WHITE BEAR LK	MN	55110
1314	3.	14.35	9.	9.	1.	1.	WHITE BEAR LK	MN	55110
1315	1.	19.42	8.	3.	3.	1.	MINNEAPOLIS	MN	55417
1316	4.	12.7-	9.	9.	4.	1.	MINNEAPOLIS	MN	55418
1317	3.	13.00	1.	10.	1.	1.	ROSEVILLE	MN	55421
1318	3.	20.31	11.	5.	1.	1.	PLYMOUTH	MN	55441
1319	3.	14.94	1.	10.	1.	1.	CONGER	MN	56020
1320	3.	14.41	3.	14.	1.	1.	HENNING	MN	56551
1321	1.	10.13	9.	9.	2.	1.	MINOT	ND	58701
1322	4.	10.15	2.	14.	4.	1.	BOZEMAN	MT	59715
1323	3.	15.14	3.	14.	1.	1.	DES PLAINES	IL	60016
1324	4.	16.95	1.	5.	2.	1.	DES PLAINES	IL	60016
1325	2.	14.42	2.	11.	1.	1.	GLENVIEW	IL	60025
1326	4.	15.17	1.	5.	2.	1.	LAKE BLUFF	IL	60048
1327	4.	11.09	3.	14.	2.	1.	MCHENRY	IL	60050
1328	3.	11.77	5.	14.	2.	1.	NORTH CHICAGO	IL	60064
1329	1.	15.60	11.	8.	1.	1.	WHEELING	IL	60090
1330	3.	14.05	9.	6.	2.	1.	SCHAUMBURG	IL	60172
1331	5.	13.35	3.	15.	2.	1.	EVANSTON	IL	60201
1332	3.	13.78	9.	7.	1.	1.	EVANSTON	IL	60202
1333	1.	12.65	9.	6.	2.	1.	JOLIET	IL	60433
1334	1.	12.08	1.	9.	2.	1.	THORTON	IL	60470
1335	3.	11.75	3.	14.	1.	1.	RICHTON PARK	IL	60471
1336	4.	9.41	2.	14.	4.	1.	S HOLLAND	IL	60473
1337	1.	14.79	9.	6.	2.	1.	WORTH	IL	60482
1338	2.	15.29	9.	6.	2.	1.	BATAVIA	IL	60510
1339	1.	16.08	6.	9.	2.	1.	HINSDALE	IL	60521
1340	2.	16.77	8.	3.	3.	1.	HINSDALE	IL	60521
1341	4.	14.14	1.	9.	2.	1.	OAK BROOK	IL	60521
1342	2.	10.73	8.	3.	3.	1.	CHICAGO	IL	60607
1343	6.	13.42	3.	15.	2.	1.	CHICAGO	IL	60618
1344	4.	10.99	1.	9.	2.	1.	CHICAGO	IL	60621
1345	1.	11.07	1.	9.	2.	1.	CHICAGO	IL	60626
1346	2.	12.11	7.	12.	1.	1.	CHICAGO	IL	60629
1347	2.	11.89	6.	12.	4.	2.	CHICAGO	IL	60634
1348	3.	17.02	11.	5.	1.	1.	CHICAGO	IL	60652
1349	3.	10.99	2.	14.	2.	1.	CHICAGO	IL	60655
1350	3.	18.77	9.	6.	2.	1.	CHICAGO	IL	60659
1351	4.	14.34	1.	5.	2.	1.	KANKAKEE	IL	60901
1352	3.	11.22	5.	14.	2.	1.	ROCHELLE	IL	61068
1353	6.	11.88	5.	15.	2.	1.	GRANDRIDGE	IL	61325
1354	3.	12.64	2.	10.	2.	1.	PERU	IL	61354
1355	1.	17.54	1.	6.	2.	1.	MAQUON	IL	61458
1356	1.	12.10	1.	9.	2.	1.	PEORIA	IL	61601
1357	1.	8.48	2.	13.	4.	1.	PEORIA	IL	61604
1358	4.	12.32	3.	14.	2.	1.	CATLIN	IL	61817
1359	1.	20.13	11.	8.	1.	2.	DANVILLE	IL	61832
1360	1.	18.33	9.	6.	2.	1.	WOOD RIVER	IL	62095

1361	3.	15.26	9.	7.	1.	1.	SPARTA	IL	62286
1362	3.	19.38	11.	5.	1.	1.	HAVANA	IL	62644
1363	2.	15.36	9.	9.	1.	1.	SPRINGFIELD	IL	62704
1364	1.	14.21	7.	9.	2.	1.	SPRINGFIELD	IL	62801
1365	3.	17.67	11.	5.	1.	2.	MARYLAND HTS	MO	63043
1366	6.	10.79	3.	15.	2.	1.	TOWN ^ COUNTRY	MO	63131
1367	1.	14.01	6.	6.	4.	2.	ST LOUIS	MO	63136
1368	3.	10.00	5.	14.	2.	1.	FERGUSON	MO	63136
1369	3.	9.60	5.	14.	2.	1.	HANNIBAL	MO	63401
1370	1.	20.00	11.	8.	1.	2.	LEES SUMMIT	MO	64063
1371	2.	25.87	8.	3.	3.	2.	KANSAS CITY	MO	64116
1372	4.	19.59	11.	5.	1.	1.	KANSAS CITY	MO	64155
1373	4.	12.22	2.	14.	4.	1.	TARKIO	MO	64491
1374	2.	15.59	9.	6.	2.	1.	JOPLIN	MO	64801
1375	1.	13.09	2.	12.	4.	1.	MARSHALL	MO	65340
1376	3.	13.27	1.	10.	1.	1.	MILLER	MO	65707
1377	6.	12.87	3.	15.	2.	1.	LAWRENCE	KS	66044
1378	4.	12.45	3.	14.	2.	1.	PAOLA	KS	66071
1379	1.	12.15	9.	9.	2.	1.	SHAWNEE	KS	66203
1380	4.	11.86	3.	14.	2.	1.	TOPEKA	KS	66606
1381	3.	13.66	9.	6.	4.	2.	WICHITA	KS	67203
1382	4.	13.36	2.	10.	4.	1.	WICHITA	KS	67206
1383	3.	13.66	2.	10.	2.	1.	WICHITA	KS	67207
1384	4.	12.35	1.	9.	2.	1.	LYONS	KS	67554
1385	1.	21.05	8.	2.	3.	1.	CLATONIA	NE	68328
1386	4.	13.96	1.	10.	2.	1.	CHADRON	NE	69337
1387	4.	24.06	11.	5.	1.	2.	CHADRON	NE	69337
1388	2.	11.51	2.	12.	2.	1.	MARRERO	LA	70072
1389	4.	19.89	11.	5.	1.	1.	CROWLEY	LA	70526
1390	1.	16.64	11.	8.	3.	1.	JENNINGS	LA	70546
1391	4.	12.64	3.	14.	2.	1.	NEW IBERIA	LA	70560
1392	4.	11.85	2.	10.	4.	1.	LAKE CHARLES	LA	70601
1393	2.	14.38	2.	11.	1.	1.	HOMER	LA	71040
1394	4.	17.83	1.	5.	2.	1.	HEFLIN	LA	71100
1395	3.	15.58	11.	5.	1.	1.	SHREVEPORT	LA	71105
1396	2.	11.15	6.	12.	1.	1.	SHREVEPORT	LA	71106
1397	4.	11.04	2.	14.	3.	1.	MANY	LA	71449
1398	1.	15.15	9.	6.	2.	1.	PINE BLUFF	AR	71601
1399	3.	12.73	3.	14.	1.	1.	HOT SPRINGS	AR	71901
1400	2.	11.19	2.	14.	1.	1.	ALEXANDER	AR	72002
1401	4.	12.07	2.	10.	4.	1.	MORRILTON	AR	72110
1402	1.	17.43	2.	12.	2.	1.	FAIRFIELD BAY	AR	72153
1403	4.	11.30	3.	14.	2.	1.	JONESBORO	AR	72401
1404	1.	15.17	1.	9.	2.	1.	ROGERS	AR	72756
1405	3.	13.72	2.	14.	1.	1.	ALMA	AR	72921
1406	3.	14.37	1.	10.	1.	1.	OKLAHOMA CITY	OK	73107
1407	3.	21.18	11.	5.	1.	2.	ALTUS	OK	73521
1408	2.	14.51	9.	9.	1.	1.	HOBART	OK	73651
1409	2.	14.68	1.	10.	2.	1.	TULSA	OK	74104
1410	2.	14.30	9.	7.	1.	1.	TULSA	OK	74145
1411	3.	11.34	3.	14.	1.	1.	MC KINNEY	TX	75069
1412	1.	12.94	2.	9.	4.	1.	MESQUITE	TX	75149
1413	6.	12.37	3.	15.	2.	1.	DALLAS	TX	75214
1414	3.	9.50	5.	14.	2.	1.	DALLAS	TX	75220
1415	3.	14.62	1.	10.	1.	1.	DALLAS	TX	75231
1416	3.	12.72	3.	14.	1.	1.	DALLAS	TX	75231
1417	4.	16.56	11.	5.	1.	2.	DALLAS	TX	75231

1418	3.	14.44	1.	10.	1.	1.	DALLAS	TX	75240
1419	1.	13.73	7.	9.	2.	1.	GILMER	TX	75644
1420	5.	10.95	5.	15.	2.	1.	MARSHALL	TX	75670
1421	3.	15.39	3.	14.	1.	1.	JASPER	TX	75951
1422	3.	11.72	3.	14.	1.	1.	ARLINGTON	TX	76012
1423	4.	12.05	3.	15.	2.	1.	ARLINGTON	TX	76015
1424	1.	11.01	1.	9.	2.	1.	CLEBURNE	TX	76031
1425	4.	13.97	2.	10.	4.	1.	GAINESVILLE	TX	76240
1426	4.	13.97	1.	9.	2.	1.	HOUSTON	TX	77007
1427	1.	13.54	7.	12.	2.	1.	HOUSTON	TX	77018
1428	4.	13.11	11.	5.	1.	1.	HOUSTON	TX	77019
1429	6.	10.87	3.	15.	2.	1.	HOUSTON	TX	77022
1430	2.	10.99	2.	14.	1.	1.	HOUSTON	TX	77024
1431	4.	11.08	9.	9.	4.	1.	HOUSTON	TX	77043
1432	3.	14.41	3.	14.	1.	1.	SPRING	TX	77376
1433	1.	12.86	1.	9.	1.	1.	BRAZORIA	TX	77422
1434	1.	11.27	1.	9.	2.	1.	PASADENA	TX	77502
1435	1.	19.20	8.	3.	3.	1.	FRESNO	TX	77545
1436	2.	11.78	1.	9.	1.	1.	PORT ARTHUR	TX	77640
1437	4.	8.64	2.	14.	3.	1.	SAN ANTONIO	TX	78209
1438	2.	10.68	6.	12.	1.	1.	SAN ANTONIO	TX	78215
1439	4.	15.94	9.	5.	4.	1.	SAN ANTONIO	TX	78227
1440	4.	12.45	1.	10.	2.	1.	SAN ANTONIO	TX	78228
1441	4.	13.57	5.	14.	3.	1.	SAN ANTONIO	TX	78230
1442	6.	9.31	3.	15.	2.	1.	KINGSVILLE	TX	78363
1443	6.	11.16	3.	15.	2.	1.	CORPUS CHRISTI	TX	78410
1444	4.	17.97	11.	5.	1.	2.	BROWNSVILLE	TX	78520
1445	4.	9.62	2.	10.	4.	1.	GONZALES	TX	78629
1446	4.	10.85	2.	10.	4.	1.	LULING	TX	78648
1447	2.	9.68	1.	10.	2.	1.	AUSTIN	TX	78704
1448	1.	15.84	7.	9.	2.	1.	UVALDE	TX	78801
1449	6.	8.01	3.	15.	2.	1.	AMARILLO	TX	79105
1450	4.	10.63	2.	10.	4.	1.	LUBBOCK	TX	79401
1451	2.	14.98	9.	7.	1.	1.	ABILENE	TX	79601
1452	3.	14.41	2.	10.	2.	1.	MIDLAND	TX	79701
1453	1.	20.13	11.	8.	1.	2.	BIG SPRING	TX	79720
1454	3.	9.11	3.	14.	1.	1.	ODESSA	TX	79761
1455	1.	23.26	8.	3.	3.	2.	WESTMINSTER	CO	80030
1456	2.	13.94	7.	14.	1.	1.	LAKEWOOD	CO	80226
1457	4.	14.33	9.	7.	1.	1.	BOULDER	CO	80302
1458	3.	15.39	1.	10.	1.	1.	LAS ANIMAS	CO	81054
1459	3.	15.57	1.	10.	1.	1.	GRAND JUNCTION	CO	81501
1460	4.	13.88	2.	10.	3.	1.	PALISADE	CO	81526
1461	4.	11.07	2.	10.	4.	1.	WORLAND	WY	82401
1462	2.	11.01	2.	14.	4.	1.	SHERIDAN	WY	82801
1463	1.	19.91	11.	8.	1.	2.	MOSCOW	ID	83843
1464	4.	19.50	11.	5.	1.	2.	BOUNTIFUL	UT	84010
1465	1.	8.37	7.	9.	2.	1.	SALT LAKE CTY	UT	84115
1466	4.	12.70	3.	14.	2.	1.	SCOTTSDALE	AR	85252
1467	3.	11.75	3.	14.	1.	1.	SUN CITY	AZ	85351
1468	3.	11.23	1.	10.	2.	1.	ALBUQUERQUE	NM	87111
1469	4.	23.44	11.	5.	1.	2.	LAS VEGAS	NM	87701
1470	3.	12.46	3.	14.	1.	1.	CARLSBAD	NM	88220
1471	6.	13.21	5.	15.	2.	1.	HAWTHORNE	NV	89415
1472	6.	10.00	3.	15.	2.	1.	RENO	NV	89502
1473	6.	7.64	3.	15.	2.	1.	LOS ANGELES	CA	90043
1474	1.	11.72	1.	10.	2.	1.	LOS ANGELES	CA	90066

1475	4.	19.43	11.	5.	1.	1.	LOS ANGELES	CA	90066
1476	3.	15.76	9.	10.	1.	1.	LOS ANGELES	CA	90068
1477	4.	10.59	3.	14.	2.	1.	COMPTON	CA	90220
1478	4.	12.91	9.	10.	1.	1.	HAWTHORNE	CA	90250
1479	2.	11.00	6.	10.	1.	1.	REDONDO BEACH	CA	90277
1480	1.	8.80	1.	10.	2.	1.	REDONDO BEACH	CA	90278
1481	3.	13.22	9.	10.	1.	1.	SAN PEDRO	CA	90732
1482	1.	18.10	9.	6.	4.	1.	MONTROSE	CA	91020
1483	2.	13.40	1.	10.	2.	1.	NORTHRIDGE	CA	91324
1484	1.	22.54	8.	3.	3.	2.	CANYON CNTRY	CA	91351
1485	2.	16.15	9.	6.	4.	1.	SHERMAN OAKS	CA	91423
1486	3.	19.97	11.	5.	1.	1.	CHINO	CA	91710
1487	6.	9.92	3.	15.	2.	1.	ALHAMBRA	CA	91803
1488	1.	16.17	11.	3.	5.	1.	CARLSBAD	CA	92008
1489	3.	20.58	11.	5.	1.	1.	SAN DIEGO	CT	92126
1490	1.	18.57	11.	3.	5.	1.	SAN DIEGO	CA	92134
1491	6.	13.81	3.	15.	2.	1.	PALM SPRINGS	CA	92262
1492	2.	16.72	8.	3.	3.	1.	COLTON	CA	92324
1493	4.	12.57	2.	10.	4.	1.	FONTANA	CA	92335
1494	1.	19.01	11.	3.	5.	1.	OAKVIEW	CA	93022
1495	1.	12.54	2.	12.	4.	1.	OXNARD	CA	93030
1496	2.	22.41	8.	3.	3.	2.	OXNARD	CA	93030
1497	4.	18.86	11.	5.	1.	1.	PORTERVILLE	CA	93257
1498	2.	13.99	7.	12.	1.	1.	TULARE	CA	93274
1499	2.	21.05	8.	3.	3.	2.	BAKERSFIELD	CA	93304
1500	3.	12.08	9.	10.	1.	1.	RIDGECREST	CA	93555
1501	4.	14.88	3.	14.	2.	1.	ORANGE COVE	CA	93646
1502	6.	9.88	5.	15.	2.	1.	FRESNO	CA	93727
1503	2.	12.87	6.	12.	1.	1.	SALINAS	CA	93901
1504	1.	12.14	1.	10.	2.	1.	ATHERTON	CA	94025
1505	6.	10.58	5.	15.	2.	1.	SUNNYVALE	CA	94086
1506	2.	13.54	7.	12.	1.	1.	MARTINEZ	CA	94553
1507	4.	9.10	3.	14.	2.	1.	BERKELEY	CA	94702
1508	1.	11.93	9.	8.	4.	1.	BERKELEY	CA	94709
1509	6.	11.23	5.	15.	2.	1.	LOS GATOS	CA	95030
1510	4.	12.63	9.	7.	2.	1.	SANTA CLARA	CA	95051
1511	6.	11.94	2.	15.	2.	1.	SANTA CLARA	CA	95051
1512	6.	11.56	3.	15.	2.	1.	SAN JOSE	CA	95112
1513	4.	17.30	11.	5.	1.	1.	SAN JOSE	CA	95124
1514	1.	20.71	8.	3.	3.	2.	SAN JOSE	CA	95127
1515	4.	16.43	9.	5.	2.	1.	SAN JOSE	CA	95130
1516	3.	13.99	9.	7.	4.	1.	TWAIN HARTE	CA	95383
1517	1.	12.86	9.	10.	4.	1.	CITRUS HTS	CA	95610
1518	6.	10.08	5.	15.	2.	1.	SACRAMENTO	CA	95825
1519	4.	13.46	1.	10.	2.	1.	GLADSTONE	OR	97027
1520	2.	15.00	1.	9.	1.	1.	CORNELIUS	OR	97113
1521	3.	18.43	9.	7.	1.	1.	OAKRIDGE	OR	97463
1522	2.	15.70	9.	9.	1.	1.	KLAMATH FALLS	OR	97601
1523	2.	11.79	2.	11.	1.	1.	EDMONDS	WA	98020
1524	1.	21.47	8.	3.	3.	1.	MOUNTLAKE TER	WA	98043
1525	3.	17.81	11.	5.	1.	2.	SEATTLE	WA	98122
1526	2.	19.00	8.	3.	3.	1.	MOUNT VERNON	WA	98273
1527	2.	12.81	1.	9.	1.	1.	TACOMA	WA	98499
1528	1.	13.81	1.	9.	2.	1.	OLYMPIA	WA	98503
1529	2.	15.47	9.	9.	1.	1.	LONGVIEW	WA	98632
1530	3.	19.97	11.	5.	1.	2.	E WENATCHEE	WA	98801
1531	1.	11.11	7.	12.	2.	1.	SPOKANE	WA	99205
1532	3.	11.15	3.	14.	1.	1.	KENNEWICK	WA	99336

Table A-2. GM Data Base Listing (Seasonal, Geographical Data)

NUMBER	WT.	SEASON	AMPD	POPULATION	SUBURB	TERRAIN	ELEVATION	TEMP	REL HUM	PRECIP	SNOW-ICE	MODEL
1	4000.	W	43.59	7419	N	B3	510	-.9	72	153	333	2202
2	4500.	W	27.62	15396	N	B3	603	-.9	72	153	333	2204
3	5500.	W	70.00	180341	N	B3	470	-.9	72	153	333	2506
4	5000.	W	42.10	35149	S	B2	100	3.2	68	100	91	2209
5	4500.	W	33.32	24764	S	B2	50	3.2	68	100	91	2204
6	5250.	W	33.10	9821	S	B2	107	3.2	68	100	91	2609
7	5500.	W	27.73	9821	S	B2	107	3.2	68	100	91	2302
8	5500.	W	432.00	13995	S	B2	30	3.2	68	100	91	2207
9	5500.	W	88.14	616326	N	B2	20	3.2	68	100	91	2506
10	3000.	S	30.14	88514	S	B2	150	19.7	76	84	0	2601
11	4000.	W	26.74	50468	S	B2	100	3.2	68	100	91	2202
12	4500.	W	20.65	89500	N	B3	175	-2.9	81	102	465	2204
13	4000.	W	7.77	21800	N	B4	45	-1.0	73	112	208	2202
14	4000.	W	43.78	403	N	C5	695	-1.9	77	53	427	2406
15	5500.	W	31.04	36300	N	B4	110	-1.9	77	53	427	2506
16	4500.	W	89.50	3187	N	B4	110	-1.9	77	53	427	2204
17	5000.	W	20.42	49500	N	C4	289	-.7	72	115	216	2209
18	5000.	W	33.50	49500	N	C4	289	-.7	72	115	216	2209
19	3500.	S	32.00	49500	N	C4	289	20.2	71	97	0	2499
20	4000.	W	15.33	44500	N	C4	272	-.7	72	115	216	2605
21	5000.	W	33.93	16733	S	C4	191	-.7	72	115	216	2209
22	5500.	W	18.84	57583	S	C4	50	-.7	72	115	216	2506
23	4000.	W	27.84	68031	S	C4	120	-.7	72	115	216	2202
24	4500.	W	23.59	4964	N	C4	17	-.7	72	115	216	2204
25	4000.	W	49.54	55000	N	C4	144	-.7	72	115	216	2202
26	5500.	W	33.94	55000	N	C4	144	-.7	72	115	216	2207
27	4500.	S	21.25	55000	N	C4	144	20.2	71	97	0	2204
28	3500.	S	134.00	55000	N	C4	144	20.2	71	97	0	2201
29	5500.	W	99.86	20000	N	C4	257	-.7	72	115	216	2506
30	5500.	W	23.76	23900	S	A2	136	3.8	68	102	30	2506
31	3500.	W	32.60	5000	S	A2	282	3.8	68	102	30	2499
32	3000.	S	26.71	5000	S	A2	282	22.0	70	163	0	2601
33	5250.	W	21.30	29800	S	A2	25	3.8	68	102	30	2609
34	4500.	W	26.61	13228	S	A2	12	3.8	68	102	30	2407
35	4500.	W	27.67	270000	N	A2	11	3.8	68	102	30	2204
36	5500.	W	20.40	270000	N	A2	11	3.8	68	102	30	2506
37	4500.	W	10.45	3760	S	B3	69	3.8	68	102	30	2204
38	4500.	W	29.24	10100	S	B3	83	3.8	68	102	30	2204
39	5500.	W	36.76	17800	S	A2	21	4.1	68	132	28	2302
40	4000.	W	33.58	21756	S	B3	40	3.8	68	102	30	2202
41	5250.	W	49.59	1000	S	A2	70	4.1	68	103	20	2505
42	5250.	W	21.29	63500	S	A2	35	4.1	68	103	20	2609
43	5250.	W	33.00	63500	S	A2	35	4.1	68	103	20	2505
44	5500.	W	27.08	2600	S	A2	70	4.1	68	103	20	2506
45	4500.	W	112.20	23500	S	A2	40	4.1	68	103	20	2204
46	4500.	W	17.31	6000	S	A2	19	4.1	68	103	20	2204
47	5500.	W	24.77	9500	S	A2	64	4.1	68	103	20	2506
48	4500.	W	22.67	900	S	A2	19	4.1	68	103	20	2204
49	4000.	W	29.50	3000	S	A2	23	4.1	68	103	20	2405

50	4500.	W	39.67	4590	N	A1	6	3.9	62	121	1	2204
51	5500.	W	27.95	2151	S	A2	211	4.1	68	132	28	2506
52	5250.	W	24.35	107000	N	A2	50	4.1	68	132	28	2609
53	5500.	W	35.82	107000	N	A2	50	4.1	68	132	28	2303
54	4000.	W	23.00	19000	N	A1	67	3.9	62	121	1	2405
55	4500.	W	30.35	700	N	A2	173	4.1	68	103	20	2412
56	5000.	W	41.87	31600	S	A2	90	3.8	68	102	30	2209
57	5500.	W	42.36	40000	S	A2	42	3.8	68	102	30	2207
58	4500.	W	24.86	8080000	N	A1	30	4.2	65	160	5	2204
59	5500.	W	45.18	8080000	N	A1	30	4.2	65	160	5	2506
60	3500.	W	15.08	8080000	N	A1	30	4.2	65	160	5	2501
61	5250.	W	18.00	300000	S	A1	30	4.2	65	160	5	2609
62	4000.	W	47.58	18345	S	A2	155	4.2	65	160	5	2202
63	3000.	S	35.32	18345	S	A2	155	20.7	76	185	0	2402
64	5250.	W	30.08	201573	S	A2	16	4.2	65	160	5	2505
65	4000.	W	41.75	4640	S	A2	160	4.2	65	160	5	2202
66	5500.	W	20.75	24000	N	B3	500	4.2	65	160	5	2302
67	5250.	W	130.00	3763	N	B3	679	4.2	65	160	5	2505
68	4000.	W	62.22	10900	S	A1	84	4.2	65	160	5	2605
69	4500.	W	8.13	2600000	N	A1	66	4.2	65	160	5	2204
70	5250.	W	231.25	1700	S	B2	50	4.2	65	160	5	2609
71	4000.	W	13.93	1700	S	B2	50	4.2	65	160	5	2405
72	5500.	W	51.46	1700	S	B2	240	4.2	65	160	5	2508
73	4500.	W	14.32	15000	S	A1	60	4.2	65	160	5	2204
74	5500.	W	17.23	39500	S	A1	20	4.2	65	160	5	2508
75	5500.	W	16.47	2800	S	B2	119	4.2	65	160	5	2508
76	5500.	S	9.00	2800	S	B2	119	20.7	76	185	0	2303
77	4500.	W	15.56	18400	S	B2	15	4.2	65	160	5	2204
78	4500.	W	19.00	28300	S	B2	80	4.2	65	160	5	2204
79	5500.	W	48.09	23500	S	B2	80	4.2	65	160	5	2207
80	5250.	W	78.45	17500	S	B2	220	4.2	65	160	5	2505
81	5250.	W	30.50	9600	S	B2	80	4.2	65	160	5	2409
82	5250.	W	13.14	53000	S	B2	149	4.2	65	160	5	2505
83	4500.	W	15.88	53000	S	B2	149	4.2	65	160	5	2204
84	5500.	W	18.00	8900	S	B4	220	-1.7	80	65	318	2506
85	5250.	W	49.54	1317	N	D5	640	-1.7	80	65	318	2609
86	5250.	W	32.00	127000	N	B4	150	-1.7	80	65	318	2409
87	5250.	W	21.05	127000	N	B4	150	-1.7	80	65	318	2609
88	5250.	W	66.90	16910	N	B3	188	-1.7	80	65	318	2609
89	5250.	W	39.53	5658	N	B3	200	-1.7	80	65	318	2505
90	5500.	W	21.70	5015	N	B3	400	4.2	65	160	5	2207
91	5250.	W	22.93	34800	N	B4	708	-.9	91	88	665	2409
92	5500.	W	83.62	600	N	B2	398	-.9	91	88	665	2506
93	5500.	W	461.50	3622	N	B3	1133	-.9	91	88	665	2508
94	5250.	W	21.14	215000	N	B2	406	-.9	91	88	665	2505
95	5250.	W	10.19	8732	N	B2	460	-.9	91	88	665	2206
96	5250.	W	39.30	11600	N	B2	443	-.9	91	88	665	2505
97	5250.	W	35.13	2986	N	B2	495	-.9	91	88	665	2206
98	5500.	W	29.68	500	N	B2	381	-2.7	83	73	673	2508
99	4500.	W	27.25	8843	N	B2	1015	-.9	91	88	665	2407
100	4000.	W	36.38	2810	N	B2	690	-.2	85	80	599	2202
101	5250.	W	51.30	100	N	B2	1450	-.2	85	80	599	2409
102	5250.	W	13.28	905	N	B2	928	-.2	85	80	599	2609
103	4500.	W	21.40	9500	S	B2	820	-.2	85	80	599	2204
104	5250.	W	30.40	4174	N	B3	1341	-.2	85	80	599	2609
105	4500.	W	9.65	22300	S	B2	600	-.2	85	80	599	2412
106	4000.	W	5.54	505000	N	B2	600	-.2	85	80	599	2502

107	5250.	W	62.44	505000	N	B2	600	-.2	85	80	599	2206
108	5250.	W	21.62	52000	S	B2	680	-.2	85	80	599	2505
109	5250.	W	19.38	62000	S	B2	680	-.2	85	80	599	2206
110	5500.	S	52.14	62000	S	B2	680	20.0	75	93	0	2207
111	5250.	W	33.64	113844	S	B2	650	-.2	85	80	599	2505
112	4500.	S	59.57	113844	S	B2	650	20.0	75	93	0	2412
113	5500.	W	29.48	1800	S	B2	280	-.3	83	73	673	2207
114	5500.	W	13.46	1382	N	B2	620	-.3	83	73	673	2506
115	5250.	W	50.93	125	N	B2	1400	-.2	85	80	599	2609
116	5250.	W	60.33	1590	S	B2	420	-.3	83	73	673	2206
117	5000.	W	70.17	305000	N	B2	515	-.3	83	73	673	2506
118	5250.	W	44.60	1408	S	D4	860	.3	76	102	538	2409
119	4000.	W	14.19	27900	S	D4	1200	.3	76	102	538	2405
120	5250.	W	28.38	11300	S	D4	773	.3	76	102	538	2609
121	5500.	W	30.38	2297	S	D4	860	.3	76	102	538	2303
122	5250.	W	18.43	25500	S	D4	1180	.3	76	102	538	2609
123	4000.	W	14.58	560000	N	D4	760	.3	76	102	538	2405
124	5250.	W	12.84	560000	N	D4	760	.3	76	102	538	2505
125	4000.	W	13.85	560000	N	D4	760	.3	76	102	538	2406
126	4500.	W	13.32	560000	N	D4	760	.3	76	102	538	2407
127	5250.	W	5.38	560000	N	D4	760	.3	76	102	538	2609
128	5250.	W	29.38	560000	N	D4	760	.3	76	102	538	2609
129	5250.	W	13.39	560000	N	D4	760	.3	76	102	538	2505
130	5250.	W	21.79	560000	N	D4	760	.3	76	102	538	2609
131	4000.	W	33.07	560000	N	D4	760	.3	76	102	538	2406
132	5250.	W	27.00	560000	N	D4	760	.3	76	102	538	2609
133	5000.	W	46.11	1500	S	D4	984	.3	76	102	538	2209
134	5250.	W	298.50	3695	N	C5	1100	1.9	76	117	13	2409
135	4000.	W	15.05	7200	N	C5	1100	1.9	76	117	13	2605
136	5250.	W	29.09	7200	N	C5	1100	1.9	76	117	13	2505
137	5000.	W	11.24	14200	N	C4	1310	.3	76	102	538	2209
138	4000.	W	10.31	41500	N	B3	860	-.8	79	77	518	2605
139	5000.	W	163.60	41500	N	B3	860	-.8	79	77	518	2209
140	4000.	W	22.82	1971	N	C4	1340	1.2	71	114	117	2405
141	5250.	W	20.67	136000	N	B2	744	-.6	85	91	511	2505
142	5500.	W	13.97	67000	N	C5	1206	1.9	76	117	13	2506
143	4000.	W	32.86	2496	N	C5	2167	1.9	76	117	13	2405
144	3500.	W	21.00	1390	N	B3	640	-.6	85	91	511	2499
145	4500.	W	30.53	813	N	B2	475	1.9	76	117	13	2204
146	5250.	W	23.39	9803	N	C5	400	1.9	76	117	13	2409
147	5250.	S	35.31	9803	N	C5	400	21.5	77	165	0	2505
148	5250.	W	19.45	75000	N	B2	360	1.9	76	117	13	2409
149	4500.	S	14.34	75000	N	B2	360	21.5	77	165	0	2412
150	5250.	W	35.38	1759	N	C5	560	1.9	76	117	13	2409
151	4500.	W	15.16	52500	N	B3	400	1.9	76	117	13	2204
152	5250.	W	14.72	52500	N	B3	400	1.9	76	117	13	2505
153	5500.	W	12.57	52500	N	B3	400	1.9	76	117	13	2302
154	5500.	W	36.50	60000	N	B3	380	1.9	76	117	13	2506
155	4000.	W	25.75	18000	N	C5	440	1.9	76	117	13	2605
156	5250.	W	49.22	7972	N	C5	400	1.2	71	114	117	2409
157	4500.	W	25.37	6209	N	B3	540	1.8	75	115	81	2204
158	5500.	W	95.14	3693	S	C4	1240	1.3	74	86	132	2506
159	4000.	W	33.10	12900	N	C5	569	1.3	74	86	132	2406
160	4000.	W	31.50	19500	S	C5	544	1.3	74	86	132	2405
161	4000.	W	40.87	19500	S	C5	544	1.3	74	86	132	2502
162	5250.	W	93.25	11800	S	B3	100	4.1	68	103	20	2609
163	4500.	W	11.52	36000	S	B3	250	4.1	68	103	20	2204

164	4000.	W	21.18	28000	S	B3	220	4.1	68	103	20	2406
165	4500.	S	37.88	28000	S	B3	220	22.3	72	192	0	2608
166	5250.	W	10.85	2323	S	B3	400	4.1	68	103	20	2505
167	4500.	S	45.68	2323	S	B3	400	22.3	72	192	0	2204
168	4000.	W	16.24	2030000	N	B3	45	4.1	68	103	20	2405
169	4000.	S	15.07	2030000	N	B3	45	22.3	72	192	0	2405
170	4500.	S	15.10	2030000	N	B3	45	22.3	72	192	0	2204
171	4000.	W	13.90	2030000	N	B3	45	4.1	68	103	20	2407
172	5500.	W	35.83	2030000	N	B3	45	4.1	68	103	20	2506
173	5250.	W	9.81	2030000	N	B3	45	4.1	68	103	20	2409
174	4000.	W	13.50	2030000	N	B3	45	4.1	68	103	20	2405
175	3500.	W	35.73	16000	S	B3	360	4.1	68	103	20	2499
176	4000.	W	14.48	13800	N	A1	124	3.8	68	106	1	2405
177	4500.	W	35.73	10600	S	B2	350	6.2	64	113	1	2204
178	5250.	W	42.69	810000	N	B2	50	6.2	64	113	1	2505
179	5500.	W	121.83	350	S	B2	200	6.2	64	113	1	2506
180	5250.	W	28.20	14000	S	B2	290	6.2	64	113	1	2505
181	4000.	W	21.53	8000	S	B2	250	6.2	64	113	1	2202
182	4000.	W	37.17	2000	S	B2	265	6.2	64	113	1	2605
183	4000.	S	21.70	2000	S	B2	265	24.7	64	55	0	2604
184	5250.	W	12.18	100	S	B2	160	6.2	64	113	1	2609
185	5500.	W	28.13	500	N	B2	9	6.2	64	113	1	2506
186	4000.	W	28.40	7000	S	B2	508	6.2	64	113	1	2605
187	5250.	W	394.00	18500	S	B2	59	6.2	64	113	1	2409
188	5500.	W	15.34	10200	S	B2	100	6.2	64	113	1	2302
189	5500.	W	88.75	37000	S	B2	451	6.2	64	113	1	2506
190	4500.	W	26.59	4000	S	B2	496	4.6	68	145	10	2204
191	4500.	S	38.67	4000	S	B2	496	22.8	73	97	0	2204
192	5500.	W	42.74	925000	N	B2	32	4.6	68	145	10	2302
193	4500.	W	15.54	925000	N	B2	32	4.6	68	145	10	2204
194	5250.	W	55.78	925000	N	B2	32	4.6	68	145	10	2609
195	5250.	S	41.27	925000	N	B2	32	22.8	73	97	0	2206
196	5500.	W	62.88	925000	N	B2	32	4.6	68	145	10	2506
197	5250.	W	13.48	925000	N	B2	32	4.6	68	145	10	2609
198	4500.	W	23.48	925000	N	B2	32	4.6	68	145	10	2407
199	5250.	W	19.85	27500	N	B2	57	4.6	68	145	10	2505
200	4000.	S	36.12	27500	N	B2	57	22.8	73	97	0	2406
201	5250.	W	34.75	1195	S	B2	541	4.6	68	145	10	2505
202	5250.	W	16.15	355	S	B2	27	4.6	68	145	10	2505
203	5500.	W	45.62	21000	S	B2	350	6.2	64	113	1	2506
204	4500.	W	112.67	5700	S	B2	321	6.2	64	113	1	2503
205	3500.	W	46.42	115000	S	B2	50	6.2	64	113	1	2499
206	4000.	W	25.79	115000	S	B2	50	6.2	64	113	1	2202
207	5250.	W	25.19	15000	N	B2	84	7.8	75	97	1	2505
208	5250.	W	94.11	223000	N	B2	150	5.4	72	107	1	2505
209	4000.	W	49.11	172106	S	A1	18	7.8	75	97	1	2406
210	5250.	W	58.64	115000	N	A1	12	7.8	75	97	1	2609
211	4000.	S	38.17	370000	N	B2	87	23.1	72	102	0	2605
212	5500.	W	47.94	100500	N	B4	948	3.8	64	80	168	2506
213	5250.	W	18.73	6347	S	B4	1012	3.8	64	80	168	2505
214	4500.	W	17.70	851	N	D5	1860	1.3	80	88	419	2606
215	4500.	W	37.25	100	N	D5	2565	1.3	80	88	419	2204
216	5250.	W	50.45	85000	N	D4	620	2.7	75	81	211	2206
217	4000.	W	32.42	85000	N	D4	620	2.7	75	81	211	2405
218	5500.	W	41.64	800	N	D4	560	3.7	75	73	150	2303
219	4500.	W	12.90	81500	N	D4	570	3.7	75	73	150	2407
220	5500.	W	11.21	17500	N	C5	2416	1.3	80	88	419	2508

221	5500.	W	21.83	25000	N	D4	1011	2.9	75	83	257	2508
222	4000.	W	44.00	139000	N	B2	884	5.4	69	107	1	2405
223	5250.	W	10.98	131711	N	B2	841	5.4	69	107	1	2505
224	4500.	W	11.45	31000	N	B2	121	6.2	78	102	1	2204
225	3500.	S	26.27	31000	N	B2	121	23.2	72	42	0	2201
226	5250.	W	23.55	2862	N	B2	226	6.2	78	102	1	2609
227	4500.	W	22.00	105722	N	B2	363	6.2	78	102	1	2503
228	4500.	W	14.87	33500	N	B2	121	6.2	78	102	1	2503
229	5500.	W	23.86	33500	N	B2	121	6.2	78	102	1	2506
230	4500.	W	31.18	23500	N	B2	764	5.4	69	107	1	2503
231	4500.	W	18.35	230000	N	B2	721	5.6	75	97	1	2606
232	4500.	W	54.85	230000	N	B2	721	5.6	75	97	1	2503
233	5500.	W	41.82	230000	N	B2	721	5.6	75	97	1	2302
234	4500.	W	138.67	2338	N	A1	110	9.7	77	94	0	2606
235	5250.	W	23.87	26200	N	A1	44	6.2	78	102	1	2609
236	5250.	W	113.00	16000	N	A1	15	9.7	77	94	0	2609
237	4500.	W	41.33	207	N	A1	110	6.2	78	102	1	2606
238	5000.	W	47.86	2281	N	B2	1100	5.6	75	97	1	2209
239	4500.	W	36.63	20800	N	B2	925	5.6	75	97	1	2608
240	4000.	S	58.43	20800	N	B2	925	23.9	66	47	0	2202
241	4500.	W	55.46	1564	N	D5	2036	4.6	76	60	76	2503
242	5000.	W	22.92	62000	N	C5	2216	4.6	76	60	76	2209
243	4000.	W	30.52	795000	N	A1	9	10.6	73	76	0	2405
244	5250.	W	30.83	12600	N	A1	10	10.6	73	76	0	2409
245	4500.	W	34.00	677	N	B2	150	8.9	80	117	0	2606
246	4500.	W	44.92	67000	N	B2	966	6.3	73	64	0	2606
247	4500.	W	57.00	67000	N	B2	966	6.3	73	64	0	2608
248	4500.	S	37.38	67000	N	B2	966	23.6	72	137	0	2204
249	5500.	W	92.22	9200	N	B2	1091	6.3	73	64	0	2506
250	4500.	W	107.80	9300	N	B2	1016	6.3	73	64	0	2204
251	4000.	W	37.44	3315	N	B2	667	6.3	73	64	0	2405
252	4500.	W	23.04	3000	N	B2	476	7.7	75	103	0	2503
253	5250.	W	127.80	22200	S	B2	1048	6.8	75	135	1	2609
254	4500.	W	164.50	1561	N	B3	1315	6.8	75	135	1	2204
255	5250.	W	106.38	4462	N	B3	1209	6.8	75	135	1	2505
256	5000.	W	34.65	31500	N	B3	605	6.5	71	141	1	2209
257	4500.	W	91.40	431	N	B3	1340	6.5	71	141	1	2606
258	5250.	W	113.88	2224	N	C2	855	6.8	75	135	1	2505
259	4500.	W	30.62	300	S	B2	780	6.8	75	135	1	2407
260	4500.	W	40.82	535000	N	B2	1057	6.8	75	135	1	2608
261	4500.	W	40.94	26000	S	B2	1057	6.8	75	135	1	2503
262	4500.	S	30.64	26000	S	B2	1057	24.1	73	140	0	2606
263	5250.	W	18.63	3219	N	B2	254	9.8	71	94	1	2409
264	5250.	W	34.47	8356	N	A2	230	11.7	76	47	0	2505
265	4500.	W	429.00	3469	N	A2	210	7.7	75	103	1	2407
266	5000.	W	57.36	17500	N	B3	1217	6.8	75	135	1	2209
267	4500.	W	31.06	1619	N	B3	1487	6.8	75	135	1	2204
268	4500.	W	39.00	950	N	B2	347	7.7	75	103	1	2608
269	4500.	W	28.87	141000	N	A2	41	11.7	76	47	1	2503
270	4000.	W	15.25	141000	N	A2	41	11.7	76	47	1	2502
271	4500.	W	25.31	20800	N	A1	135	12.8	81	44	0	2608
272	4000.	W	28.35	22600	N	A1	8	12.8	81	44	0	2604
273	4500.	W	82.33	5071	N	A2	180	11.3	82	97	0	2606
274	5500.	W	147.83	64000	N	B2	208	9.8	74	131	1	2506
275	4500.	W	29.19	125000	N	B2	249	9.8	74	131	1	2608
276	4500.	W	127.75	125000	N	B2	249	9.8	74	131	1	2608
277	4500.	W	19.74	198000	N	A1	19	12.8	81	44	1	2608

278	3000.	W	36.15	198000	N	A1	19	12.8	81	44	1	2601
279	4500.	S	37.50	198000	N	A1	19	27.2	76	132	0	2503
280	4000.	W	73.50	198000	N	A1	19	12.8	81	44	1	2202
281	4500.	W	21.35	198000	N	A1	19	12.8	81	44	1	2608
282	5250.	W	61.75	9800	N	B2	187	11.3	82	97	0	2505
283	4500.	W	15.45	34500	N	A1	29	13.6	76	63	0	2608
284	4500.	W	14.12	60500	N	A1	11	13.6	76	63	0	2606
285	4500.	W	14.21	7467	N	A1	236	13.6	76	63	0	2608
286	4000.	W	15.82	16500	N	A1	23	13.6	76	63	0	2405
287	5500.	W	20.41	55000	N	A1	185	12.8	81	44	0	2506
288	4500.	W	26.68	1878	N	A1	50	16.1	73	41	0	2608
289	4000.	W	52.85	450	N	A1	128	16.1	73	41	0	2604
290	4500.	W	27.33	4391	S	A1	98	16.1	73	41	0	2606
291	4500.	W	18.82	11641	N	A1	77	16.1	73	41	0	2503
292	5500.	W	19.18	3570	N	A1	89	16.1	73	41	0	2302
293	4000.	W	16.48	22000	N	A1	94	16.1	73	41	0	2502
294	4500.	W	38.75	93500	N	A1	109	16.1	73	41	0	2608
295	5000.	W	23.28	18500	N	A1	25	16.1	73	41	0	2209
296	4500.	W	59.13	4500	N	A1	12	16.1	73	41	0	2606
297	5500.	W	41.35	67000	N	A1	15	20.6	73	30	0	2506
298	5250.	W	22.94	5200	S	A1	13	20.6	73	30	0	2409
299	4000.	W	33.68	5014	S	A1	15	20.6	73	30	0	2604
300	4000.	W	66.43	38500	S	A1	10	20.6	73	30	0	2502
301	4500.	W	21.43	58000	S	A1	5	20.6	73	30	0	2503
302	4500.	W	46.88	325000	N	A1	10	20.6	73	30	0	2503
303	5500.	W	30.92	325000	N	A1	10	20.6	73	30	0	2302
304	5500.	W	15.43	170	S	A1	6	20.6	73	30	0	2207
305	4500.	W	36.67	2000	S	A1	10	20.6	73	30	0	2606
306	4000.	W	27.65	114000	N	A1	10	20.6	73	30	0	2502
307	4500.	W	30.71	114000	N	A1	10	20.6	73	30	0	2503
308	4000.	S	15.92	114000	N	A1	10	27.5	78	162	0	2405
309	4500.	W	19.88	11000	S	A1	7	20.6	73	30	0	2503
310	4500.	W	32.50	59000	N	A1	19	19.3	76	65	0	2608
311	4500.	W	9.57	59000	N	A1	19	19.3	76	65	0	2503
312	4000.	S	30.67	59000	N	A1	19	26.4	80	182	0	2604
313	5500.	W	27.76	14000	S	A1	17	20.6	73	65	0	2207
314	4000.	W	30.27	15300	S	A1	20	19.3	76	65	0	2604
315	4500.	W	16.83	30000	N	A1	24	19.3	76	65	0	2606
316	4500.	W	14.63	7200	S	A1	15	19.3	76	65	0	2606
317	5500.	S	27.76	7200	S	A1	15	26.4	80	182	0	2302
318	3000.	W	49.42	4791	N	A1	13	19.3	76	65	0	2601
319	4500.	W	12.71	3301	N	A1	209	16.1	73	41	0	2606
320	4000.	W	14.96	42500	S	A1	24	16.6	71	71	0	2605
321	4000.	S	12.51	42500	S	A1	24	28.1	74	222	0	2604
322	4500.	W	22.44	10000	S	A1	57	16.6	71	71	0	2204
323	5250.	S	17.39	10000	S	A1	57	28.1	74	222	0	2409
324	4500.	W	22.90	4300	N	A1	11	16.6	71	71	0	2503
325	5250.	W	21.00	15800	N	A1	131	16.6	71	71	0	2505
326	5500.	W	14.12	39000	N	A1	24	16.6	71	71	0	2207
327	5250.	S	17.46	7118	N	A1	10	28.1	74	222	0	2609
328	4500.	W	33.76	305000	N	A1	57	16.6	71	71	0	2503
329	4500.	W	19.82	305000	N	A1	57	16.6	71	71	0	2606
330	4500.	W	15.89	7347	S	A1	56	16.6	71	71	0	2606
331	4500.	W	15.04	7347	S	A1	56	16.6	71	71	0	2503
332	4000.	W	17.68	200000	N	A1	44	16.6	71	71	0	2202
333	5250.	W	11.71	200000	N	A1	44	16.6	71	71	0	2505
334	5500.	W	41.07	44500	N	A1	219	16.6	71	71	0	2506

335	5500.	W	23.63	28000	N	A1	10	18.8	76	23	0	2207
336	5500.	W	21.44	5000	N	A1	26	18.8	76	23	0	2303
337	4500.	W	50.46	977	N	B3	710	15.6	74	119	1	2606
338	5250.	W	35.41	100	S	C4	550	8.5	74	119	1	2505
339	5250.	W	112.71	345000	N	C4	601	8.5	74	152	1	2505
340	5250.	W	275.50	345000	N	C4	601	8.5	74	152	1	2505
341	4500.	W	24.05	345000	N	C4	601	8.5	74	152	1	2503
342	5000.	W	33.47	345000	N	C4	601	8.5	74	152	1	2209
343	4500.	W	238.50	345000	N	C4	601	8.5	74	152	1	2412
344	5000.	W	29.12	345000	N	C4	601	8.5	74	152	1	2209
345	4500.	W	17.76	11800	N	C3	496	8.5	74	152	1	2608
346	4500.	W	26.17	336	N	C3	804	8.5	74	152	1	2204
347	4500.	W	23.92	6449	N	B4	653	6.6	79	153	25	2606
348	3500.	W	37.18	56000	N	B3	555	6.6	79	153	25	2499
349	4500.	W	22.29	8357	N	B2	257	10.3	74	119	1	2503
350	4500.	W	72.44	165	N	B2	364	10.3	74	119	1	2503
351	4500.	W	39.89	148000	N	B2	287	10.3	74	119	1	2606
352	5250.	W	65.50	148000	N	B2	287	10.3	74	119	1	2505
353	4500.	W	22.85	1474	N	A1	144	12.8	80	109	0	2606
354	5500.	W	49.13	6500	S	A1	12	12.8	80	109	0	2303
355	5250.	W	37.59	222000	N	A1	7	12.8	80	109	0	2505
356	5000.	W	88.67	222000	N	A1	7	12.8	80	109	0	2209
357	5250.	S	32.09	222000	N	A1	7	27.1	74	96	0	2609
358	4500.	S	38.39	222000	N	A1	7	27.1	74	96	0	2503
359	4500.	W	26.86	3182	N	B2	291	10.3	74	119	1	2407
360	4500.	W	72.50	16900	N	B2	800	9.8	74	131	1	2606
361	4500.	W	26.95	200	N	C3	831	4.8	79	115	1	2608
362	4000.	W	19.62	25200	N	C3	493	5.9	79	71	53	2502
363	5250.	W	14.82	6000	S	B3	591	5.9	79	71	53	2409
364	4000.	W	18.83	979	N	C3	836	5.9	79	71	53	2502
365	5000.	W	29.41	5000	S	B3	591	5.9	79	71	53	2209
366	4500.	W	35.28	261000	N	B3	591	5.9	79	71	53	2608
367	4500.	W	59.57	261000	N	B3	591	5.9	79	71	53	2608
368	4500.	W	17.86	261000	N	B3	591	5.9	79	71	53	2503
369	4500.	S	25.00	261000	N	B3	591	24.4	72	56	0	2606
370	5500.	W	277.50	261000	N	B3	591	5.9	79	71	53	2508
371	4500.	W	270.00	631	N	D5	1476	4.8	79	115	1	2412
372	4500.	W	32.27	119923	N	C3	685	4.8	79	115	1	2503
373	5000.	W	17.15	119923	N	C3	685	4.8	79	115	1	2209
374	4500.	W	13.59	33770	N	C3	1662	4.2	79	90	79	2503
375	4500.	W	39.67	985	S	C3	1429	4.2	79	90	79	2407
376	4000.	W	22.71	1510	S	C3	1692	4.2	79	90	79	2202
377	4500.	W	14.43	31938	N	C3	1268	4.2	79	90	79	2407
378	4500.	W	34.67	2000	S	C3	994	5.5	79	115	41	2204
379	5500.	W	40.79	5259	N	C3	883	5.5	79	115	41	2303
380	4500.	W	16.06	2661	N	C3	903	5.5	79	115	41	2503
381	5250.	W	7.49	174587	N	C3	889	5.5	79	115	41	2505
382	5500.	W	74.44	623530	N	A1	264	7.3	71	128	5	2303
383	5000.	W	19.57	2050	N	B2	433	7.3	71	128	5	2209
384	4500.	W	20.00	11925	N	B2	337	5.9	79	71	53	2606
385	4000.	W	50.00	10066	N	B2	357	7.3	71	128	5	2502
386	5250.	W	45.08	1237	N	C3	500	7.3	71	128	5	2409
387	5000.	W	20.45	10503	N	B2	240	10.2	79	183	0	2209
388	3000.	W	30.22	6170	N	A1	25	12.9	83	124	0	2402
389	4500.	W	43.77	2225	N	B2	939	3.9	80	72	30	2503
390	5250.	W	12.46	37608	N	B2	740	3.9	80	72	30	2409
391	3000.	S	38.27	37608	N	B2	740	24.1	66	80	0	2402

392	4000.	W	24.50	361706	N	B2	465	3.9	80	72	30	2502
393	4000.	W	33.36	361706	N	B2	465	3.9	80	72	30	2406
394	4500.	W	25.36	361706	N	B2	465	3.9	80	72	30	2412
395	4000.	W	14.39	174323	N	B2	983	3.2	82	94	71	2405
396	3000.	S	22.32	174323	N	B2	983	23.1	68	57	0	2601
397	4000.	W	33.43	6356	N	C3	723	3.2	82	94	71	2405
398	5250.	W	45.13	29245	N	B2	545	10.0	76	164	0	2609
399	4000.	S	14.26	29245	N	B2	545	26.2	73	139	0	2502
400	5250.	S	30.20	29245	N	B2	545	26.2	73	139	0	2505
401	4500.	W	30.00	600	N	C5	1017	3.8	64	80	168	2606
402	4000.	W	32.26	2961	N	B3	830	1.1	80	68	188	2405
403	5250.	W	16.23	540025	N	A2	780	1.1	80	68	188	2206
404	5500.	W	42.57	540025	N	A2	780	1.1	80	68	188	2302
405	3500.	W	30.29	540025	N	A2	780	1.1	80	68	188	2499
406	5500.	W	11.62	540025	N	A2	780	1.1	80	68	188	2508
407	5500.	W	70.11	7008	N	A1	765	-1.7	83	87	607	2207
408	3500.	W	31.94	383062	N	A1	587	-1.7	83	87	607	2499
409	5500.	W	11.86	33045	N	D3	705	1.1	80	68	188	2303
410	5250.	W	36.84	110	N	D3	886	1.1	80	68	188	2505
411	5500.	W	14.54	13747	N	D3	775	1.1	80	68	188	2302
412	4500.	W	14.93	1095	N	D3	715	1.1	80	68	188	2412
413	4500.	W	16.89	70173	N	B2	680	-.2	82	123	612	2407
414	4000.	W	20.35	70173	N	B2	680	-.2	82	123	612	2405
415	5250.	W	59.86	70173	N	B2	680	-.2	82	123	612	2206
416	4500.	W	32.08	70173	N	B2	680	-.2	82	123	612	2407
417	5500.	W	61.38	70173	N	B2	680	-.2	82	123	612	2207
418	5250.	W	18.13	22139	S	B2	1097	-.2	82	123	612	2206
419	5500.	W	38.65	22139	S	B2	1097	-.2	82	123	612	2207
420	4000.	S	16.43	22139	S	B2	1097	21.0	76	104	0	2502
421	3500.	W	67.29	12700	S	B2	1104	-.2	82	123	612	2499
422	5000.	W	12.04	12700	S	B2	1104	-.2	82	123	612	2209
423	4000.	W	58.10	15689	S	B2	726	-.2	82	123	612	2202
424	5500.	W	42.64	28183	N	B3	1071	-.2	82	123	612	2508
425	4000.	W	29.47	275425	N	B3	1027	-.3	85	110	747	2406
426	5250.	W	57.75	275425	N	B3	1027	-.3	85	110	747	2409
427	5250.	S	6.27	2525	N	B2	840	20.3	74	70	0	2505
428	4000.	W	39.12	1752	N	B2	1100	-.3	85	110	747	2406
429	5250.	W	10.05	1450	N	B2	1060	-.3	85	110	747	2206
430	5250.	W	34.96	13111	N	A2	995	-.3	85	110	747	2206
431	4000.	W	39.94	9847	N	A2	1102	-.3	85	110	747	2605
432	5250.	W	34.27	48767	N	B3	650	.6	81	73	224	2206
433	5500.	S	209.80	48767	N	B3	650	22.0	73	57	0	2303
434	4500.	W	40.50	500	N	B3	1020	.6	81	73	224	2407
435	5500.	W	26.77	451410	N	B3	550	.6	81	73	224	2508
436	5000.	W	27.45	1993	N	B3	1035	.6	81	73	224	2209
437	5000.	W	43.81	1993	N	B3	1035	.6	81	73	224	2209
438	5000.	W	20.70	145	N	B3	870	.6	81	73	224	2209
439	5500.	W	62.36	6020	N	B3	1046	.6	81	73	224	2303
440	5500.	W	38.50	12380	N	B2	1035	.6	81	73	224	2508
441	4000.	W	28.63	10748	N	D3	715	1.1	80	68	188	2605
442	5250.	W	21.15	81941	N	D3	980	1.1	80	68	188	2609
443	5250.	W	59.18	27633	N	C3	533	3.7	75	73	150	2609
444	4000.	W	15.39	53734	N	A2	880	-1.0	90	67	427	2405
445	5250.	W	48.75	53734	N	A2	880	-1.0	90	67	427	2206
446	4500.	W	20.33	53734	N	A2	880	-1.0	90	67	427	2412
447	4000.	W	11.91	53734	N	A2	880	-1.0	90	67	427	2405
448	5250.	W	31.95	2241	N	A2	880	-1.0	90	67	427	2409

449	4000.	W	8.20	7324	N	B3	895	.6	81	73	224	2405
450	4000.	W	9.20	70787	N	A2	880	.5	88	71	147	2202
451	5500.	S	41.19	70787	N	A2	880	21.9	78	146	0	2508
452	5000.	S	39.76	14956	N	A2	850	21.9	78	146	0	2209
453	5500.	W	41.94	1796	N	A2	850	.5	88	71	147	2303
454	4500.	W	71.00	870	N	C3	775	.5	88	71	147	2407
455	4500.	W	12.56	746992	N	A2	710	.5	88	71	147	2407
456	4500.	W	23.79	746992	N	A2	710	.5	88	71	147	2407
457	4000.	S	33.53	746992	N	A2	710	21.9	78	146	0	2604
458	5500.	W	26.84	746992	N	A2	710	.5	88	71	147	2207
459	5250.	W	23.93	746992	N	A2	710	.5	88	71	147	2206
460	4000.	W	14.12	746992	N	A2	710	.5	88	71	147	2202
461	4000.	W	44.15	746992	N	A2	710	.5	88	71	147	2605
462	5250.	W	211.33	7589	N	A1	695	.5	83	60	414	2206
463	4000.	W	24.29	10931	N	A1	700	-.4	83	60	414	2202
464	5500.	W	46.00	20020	N	A1	805	-.4	83	60	414	2207
465	4000.	W	27.44	175415	N	A2	590	-.4	83	60	414	2202
466	5500.	W	27.72	43152	N	B2	755	.5	82	76	505	2302
467	5250.	W	17.18	17871	N	B2	795	.5	82	76	505	2206
468	5500.	W	23.28	35517	N	A1	725	.5	82	76	505	2508
469	4000.	W	43.79	125580	N	B2	710	.5	82	76	505	2502
470	4000.	W	20.83	7388	N	A2	860	-1.3	84	65	310	2405
471	5250.	W	29.64	8445	N	A2	800	-1.3	84	65	310	2206
472	4000.	W	24.96	178021	N	A2	790	-1.3	84	65	310	2605
473	5250.	W	13.05	1284	N	A2	795	.5	88	71	147	2206
474	3500.	W	22.79	19255	N	A2	595	-1.3	84	65	310	2499
475	5500.	W	60.44	39607	N	A2	805	-1.3	84	65	310	2302
476	4500.	S	56.33	39607	N	A2	805	20.9	78	112	0	2606
477	5000.	W	32.13	26457	N	A2	630	.5	88	71	147	2209
478	5250.	W	14.19	3995	N	B3	1105	.5	88	71	147	2206
479	5250.	W	75.22	43262	N	B2	750	.5	88	71	147	2609
480	4500.	S	224.50	43262	N	B2	750	21.9	78	146	0	2503
481	5500.	W	80.50	4092	N	C3	687	3.9	80	72	30	2207
482	5500.	W	15.38	13842	N	B2	740	.5	88	71	147	2508
483	4000.	W	34.00	45920	S	A1	615	-1.9	82	102	886	2406
484	5250.	S	40.91	45920	S	A1	615	20.6	71	61	0	2505
485	5250.	W	48.00	85279	S	A1	930	-1.9	82	102	886	2206
486	5500.	W	29.10	35794	N	A1	600	-1.9	82	102	886	2302
487	4500.	W	24.50	7054	S	A1	745	-1.9	82	102	886	2407
488	3000.	S	27.88	7054	S	A1	745	20.6	71	61	0	2601
489	3500.	W	96.00	21879	S	A1	750	-1.9	82	102	886	2501
490	5250.	W	48.38	86238	S	A1	600	-1.9	82	102	886	2206
491	4000.	W	35.07	69285	S	A1	600	-1.9	82	102	886	2605
492	4000.	W	23.21	61365	N	A2	500	-1.6	78	60	203	2202
493	3500.	W	29.14	39419	S	A1	600	-1.9	82	102	886	2499
494	4500.	S	11.89	39419	S	A1	600	20.6	71	61	0	2608
495	5250.	S	43.50	39419	S	A1	600	20.6	71	61	0	2206
496	3500.	W	46.20	9100	S	A1	625	-1.9	82	102	886	2501
497	4000.	S	58.46	9100	S	A1	625	20.6	71	61	0	2605
498	5500.	W	40.37	100035	N	A2	880	-1.9	82	102	886	2207
499	5250.	W	36.79	104200	S	A1	605	-1.9	82	102	886	2206
500	4000.	W	9.81	110109	S	A1	600	-1.9	82	102	886	2202
501	5250.	W	38.76	110109	S	A1	600	-1.9	82	102	886	2206
502	3500.	S	18.78	110109	S	A1	600	20.6	71	61	0	2499
503	4000.	W	37.29	2763	N	A2	900	-1.9	82	102	886	2605
504	5500.	W	8.00	29238	N	A2	715	-1.9	82	102	886	2508
505	5250.	W	13.15	1600000	N	A1	600	-1.9	82	102	886	2409

506	4000.	W	14.50	1600000	N	A1	600	-1.9	82	102	886	2605
507	4500.	W	10.49	21878	S	A1	575	-1.9	82	102	886	2407
508	4000.	S	21.22	21878	S	A1	575	20.6	71	61	0	2202
509	5500.	S	52.93	21878	S	A1	575	20.6	71	61	0	2207
510	4 00.	W	18.38	36762	S	A1	600	-1.9	82	102	886	2605
511	5500.	W	9.82	36762	S	A1	600	-1.9	82	102	886	2303
512	5250.	W	32.18	36762	S	A1	600	-1.9	82	102	886	2409
513	3500.	S	44.75	36762	S	A1	600	20.6	71	61	0	2499
514	4500.	S	26.74	36762	S	A1	600	20.6	71	61	0	2608
515	4500.	S	19.41	36762	S	A1	600	20.6	71	61	0	2608
516	4500.	S	42.86	36762	S	A1	600	20.6	71	61	0	2608
517	4500.	S	46.73	36762	S	A1	600	20.6	71	61	0	2608
518	4000.	S	28.06	36762	S	A1	600	20.6	71	61	0	2502
519	4000.	S	86.25	8284	N	B2	905	19.6	75	119	0	2604
520	5250.	W	19.91	7190	N	A2	715	-1.6	78	60	203	2206
521	5250.	W	26.71	5132	N	A2	840	-1.6	78	60	203	2206
522	4000.	W	14.98	193317	N	A1	715	-1.6	78	60	203	2202
523	4500.	W	28.25	91849	N	A1	595	-1.6	78	60	203	2412
524	4000.	W	8.34	91849	N	A1	595	-1.6	78	60	203	2405
525	4000.	W	43.83	400	N	A1	595	-1.6	78	60	203	2605
526	4000.	W	36.86	3200	N	A1	600	-1.6	78	60	203	2202
527	5250.	W	17.83	1050	N	A2	630	-1.6	78	60	203	2206
528	5500.	W	36.68	120	N	A2	700	-1.6	78	60	203	2508
529	4000.	W	13.34	2749	N	A2	745	-1.6	78	60	203	2405
530	5500.	W	220.00	5468	N	B2	885	-1.5	84	61	518	2207
531	4000.	W	13.77	131403	N	B2	830	-1.5	84	61	518	2406
532	5500.	W	26.89	85555	N	B2	755	-1.5	84	61	518	2207
533	5500.	W	36.05	9155	N	A2	900	.5	82	76	505	2302
534	5000.	W	23.00	3160	N	B2	740	.5	82	76	505	2209
535	4000.	S	57.00	3160	N	B2	740	21.3	76	139	0	2406
536	5500.	W	24.20	9295	N	A2	920	.5	82	76	505	2302
537	4000.	W	37.67	1112	N	B2	992	-1.5	84	61	518	2406
538	4000.	W	48.57	2149	N	B2	640	-2.0	84	46	419	2605
539	4500.	W	15.76	17304	N	B2	630	-2.0	84	46	419	2412
540	5250.	W	16.82	197645	N	B2	610	-2.0	84	46	419	2206
541	5250.	S	34.75	197645	N	B2	610	19.8	78	152	0	2206
542	5250.	W	314.50	197645	N	B2	610	-2.0	84	46	419	2206
543	5250.	S	18.14	197645	N	B2	610	19.8	78	152	0	2206
544	5500.	W	20.14	197645	N	B2	610	-2.0	84	46	419	2207
545	5250.	W	42.24	287	N	B2	1229	-4.2	84	33	135	2409
546	3000.	W	36.59	8852	N	B2	970	-2.1	79	46	231	2402
547	3000.	W	13.46	26200	N	B2	938	-2.1	79	46	231	2402
548	4000.	W	44.00	201404	N	B2	803	-2.1	79	46	231	2605
549	4000.	W	76.50	201404	N	B2	803	-2.1	79	46	231	2604
550	4000.	S	13.88	201404	N	B2	803	22.4	71	152	0	2405
551	4000.	W	22.00	31263	N	A2	1030	-4.2	84	33	135	2405
552	4500.	W	61.75	1225	N	A2	1140	-2.1	79	46	231	2407
553	3000.	W	41.47	33154	S	B2	900	-4.2	84	33	135	2601
554	5500.	W	28.92	3014	N	A2	1450	-4.7	75	3	28	2508
555	5500.	W	18.71	60348	S	B2	986	-1.7	77	21	206	2508
556	4000.	W	26.77	527	N	C3	997	-3.6	79	37	295	2502
557	5250.	W	53.04	134	N	C3	891	-3.6	79	37	295	2409
558	3000.	W	41.70	110642	N	B2	730	-4.2	84	33	135	2601
559	3000.	S	9.27	110642	N	B2	730	21.7	70	102	0	2601
560	4500.	W	24.05	735	N	C3	530	-3.6	79	37	295	2407
561	5500.	W	131.33	3647	N	C3	719	-3.6	79	37	295	2508
562	4000.	W	20.12	7697	N	C3	780	-3.6	79	37	295	2202

563	3000.	W	23.19	10006	N	C3	660	-3.0	82	35	257	2601
564	5250.	S	28.90	10006	N	C3	660	20.5	74	73	0	2609
565	3000.	W	34.84	150	N	A2	660	-1.6	76	101	231	2402
566	5250.	W	11.56	80300	N	A2	610	-1.6	76	101	231	2206
567	4000.	W	19.17	717000	N	A2	610	-1.6	76	101	231	2502
568	4500.	S	37.86	717000	N	A2	610	18.7	80	53	0	2606
569	3500.	W	21.29	71640	S	A2	610	-1.6	76	101	231	2499
570	4000.	S	49.82	71640	S	A2	610	18.7	80	53	0	2605
571	5250.	W	23.95	518	N	C3	1020	-2.9	85	46	391	2206
572	4000.	W	33.41	173000	N	B2	860	-2.9	85	46	391	2202
573	5250.	W	30.15	6488	N	B2	820	-4.2	80	42	264	2206
574	5500.	W	71.56	92000	N	A2	590	-4.2	80	42	264	2508
575	5250.	W	24.50	250	N	A2	800	-4.2	80	42	264	2206
576	5250.	W	45.00	291000	S	B2	874	-4.2	81	9	155	2609
577	4000.	W	34.13	20000	S	B2	800	-4.2	81	9	155	2406
578	4000.	W	15.04	434400	N	B2	840	-4.2	81	9	155	2405
579	3000.	W	37.53	434400	N	B2	840	-4.2	81	9	155	2402
580	4000.	W	24.76	434400	N	B2	840	-4.2	81	9	155	2202
581	5500.	W	50.71	434400	N	B2	840	-4.2	81	9	155	2508
582	3500.	S	83.86	434400	N	B2	840	20.4	69	203	0	2501
583	4000.	W	21.00	100000	N	B2	620	-6.9	85	29	485	2202
584	4500.	W	8.71	53800	N	B2	1006	-5.4	88	14	211	2412
585	4000.	W	42.11	53800	N	B2	1006	-5.4	88	14	211	2202
586	4000.	W	99.00	1820	N	B2	1476	-4.7	75	3	28	2604
587	5250.	W	41.86	400	N	B2	1680	-4.7	75	3	28	2409
588	3000.	W	10.93	55000	N	A1	900	-6.2	83	8	130	2601
589	5500.	W	56.00	943	N	B3	2161	-8.1	83	13	175	2207
590	4500.	W	11.49	65000	N	B4	3124	-1.2	51	8	89	2412
591	3000.	W	9.63	23000	N	C6	4090	-2.4	61	7	69	2402
592	5500.	W	48.56	70000	N	B2	700	-.4	83	60	414	2508
593	5250.	W	19.66	70000	N	B2	700	-.4	83	60	414	2206
594	5500.	W	45.14	56000	N	A2	640	-.4	83	60	414	2207
595	5500.	S	77.88	56000	N	A2	640	22.3	71	118	0	2506
596	4500.	S	46.33	56000	N	A2	640	22.3	71	118	0	2204
597	5500.	W	54.75	56000	N	A2	640	-.4	83	60	414	2508
598	5250.	W	23.00	32000	N	A2	680	-.4	83	60	414	2206
599	5500.	W	18.84	2500	N	A2	600	-.4	83	60	414	2303
600	4000.	W	9.24	42000	N	A2	660	-.4	83	60	414	2502
601	5250.	W	60.09	56000	N	A2	625	-.4	83	60	414	2206
602	5000.	W	42.53	66000	N	A2	625	-.4	83	60	414	2209
603	5250.	S	85.33	66000	N	A2	625	22.3	71	118	0	2409
604	5500.	W	45.00	65000	N	A2	595	-.4	83	60	414	2508
605	4500.	S	48.67	65000	N	A2	595	22.3	71	118	0	2204
606	4000.	W	15.18	13000	N	A2	650	-.4	83	60	414	2202
607	5500.	W	33.70	5000	N	A2	805	-.4	83	60	414	2508
608	5500.	W	160.50	20000	N	A2	600	-.4	83	60	414	2207
609	5500.	W	33.50	60000	N	A2	750	-.4	83	60	414	2302
610	5500.	W	21.63	50000	N	A2	680	-.4	83	60	414	2207
611	5500.	S	31.22	50000	N	A2	680	22.3	71	118	0	2207
612	5500.	W	34.82	12000	S	A2	625	-.4	83	60	414	2207
613	5500.	W	50.00	13000	N	A2	765	-.4	83	60	414	2508
614	5250.	W	21.61	38000	N	A2	745	-.4	83	60	414	2409
615	5500.	S	13.56	38000	N	A2	745	22.3	71	118	0	2506
616	5000.	W	26.74	4000	N	A2	730	-.4	83	60	414	2209
617	4000.	S	24.32	4000	N	A2	730	22.3	71	118	0	2604
618	4000.	W	9.24	50000	S	A2	600	-.4	83	60	414	2202
619	4000.	W	14.20	40000	N	A2	610	-.4	83	60	414	2502

620	5250.	W	15.17	40000	N	A2	610	-.4	83	60	414	2206
621	5500.	W	27.56	10000	N	A2	625	-.4	83	60	414	2207
622	5250.	W	33.68	29000	N	A2	625	-.4	83	60	414	2409
623	5500.	S	17.78	29000	N	A2	625	22.3	71	118	0	2207
624	5250.	W	30.43	3500	N	A2	630	-.4	83	60	414	2409
625	5250.	W	21.44	3500	N	A2	630	-.4	83	60	414	2206
626	5500.	W	16.07	65000	S	A2	620	-.4	83	60	414	2207
627	4000.	W	25.29	3300	N	A2	620	-.4	83	60	414	2202
628	5250.	W	36.85	30000	N	A2	620	-.4	83	60	414	2206
629	4000.	W	33.94	80000	N	A2	636	-.4	83	60	414	2605
630	5500.	W	29.79	38000	N	A2	720	-.4	83	60	414	2207
631	5500.	W	29.93	38000	N	A2	720	-.4	83	60	414	2207
632	4000.	S	41.08	38000	N	A2	720	22.3	71	118	0	2406
633	4500.	S	53.75	38000	N	A2	720	22.3	71	118	0	2503
634	5500.	W	48.44	17000	N	A2	645	-.4	83	60	414	2207
635	5500.	W	43.92	17000	N	A2	645	-.4	83	60	414	2207
636	3500.	S	14.44	17000	N	A2	645	22.3	71	118	0	2501
637	5250.	W	283.00	29000	N	A2	715	-.4	83	60	414	2206
638	4000.	S	39.33	29000	N	A2	715	22.3	71	118	0	2405
639	5500.	W	16.79	30000000	N	A2	595	-.4	83	60	414	2207
640	5250.	W	18.22	30000000	N	A2	595	-.4	83	60	414	2409
641	3000.	S	27.35	30000000	N	A2	595	22.3	71	118	0	2601
642	5250.	W	13.57	30000000	N	A2	595	-.4	83	60	414	2409
643	5500.	W	21.95	30000000	N	A2	595	-.4	83	60	414	2207
644	3000.	W	30.10	30000000	N	A2	595	-.4	83	60	414	2402
645	5500.	W	43.92	30000000	N	A2	595	-.4	83	60	414	2207
646	4500.	S	17.05	30000000	N	A2	595	22.3	71	118	0	2407
647	5500.	W	27.08	30000000	N	A2	595	-.4	83	60	414	2207
648	5250.	W	32.21	30000000	N	A2	595	-.4	83	60	414	2206
649	4500.	S	43.00	30000000	N	A2	595	22.3	71	118	0	2608
650	5250.	W	20.91	30000000	N	A2	595	-.4	83	60	414	2206
651	5250.	W	31.32	30000000	N	A2	595	-.4	83	60	414	2206
652	4000.	S	32.33	30000000	N	A2	595	22.3	71	118	0	2605
653	5250.	W	42.40	30000000	N	A2	595	-.4	83	60	414	2206
654	5250.	W	55.40	30000000	N	A2	595	-.4	83	60	414	2409
655	5250.	W	15.85	30000000	N	A2	595	-.4	83	60	414	2206
656	5500.	W	24.38	30000000	N	A2	595	-.4	83	60	414	2303
657	4000.	W	38.31	30000000	N	A2	595	-.4	83	60	414	2405
658	5250.	W	11.00	30000000	N	A2	595	-.4	83	60	414	2206
659	4000.	W	21.52	30000000	N	A2	595	-.4	83	60	414	2502
660	5500.	W	57.17	480	N	B2	750	-2.9	85	46	391	2207
661	5250.	W	67.56	140000	N	B2	715	-2.9	85	46	391	2206
662	4000.	W	25.29	12000	N	B2	860	-2.9	85	46	391	2502
663	5250.	W	11.88	46000	N	B2	570	-1.2	85	49	157	2206
664	4000.	W	21.96	4000	N	B2	555	-1.2	85	49	157	2605
665	5500.	W	60.30	4000	N	B2	555	-1.2	85	49	157	2508
666	4000.	W	76.25	33000	N	B2	773	-1.2	85	49	157	2202
667	4500.	W	40.78	14800	N	B2	855	-1.2	85	49	157	2412
668	3000.	W	17.08	1000	N	B2	730	-1.2	85	49	157	2601
669	5250.	W	16.95	12000	N	B2	715	-1.2	85	49	157	2206
670	4000.	W	21.42	9000	N	B2	765	-1.2	85	49	157	2502
671	5250.	W	15.59	121000	N	B2	470	-1.2	85	49	157	2206
672	5250.	S	25.27	121000	N	B2	470	22.3	72	99	0	2409
673	5250.	W	235.67	121000	N	B2	470	-1.2	85	49	157	2206
674	5250.	W	25.00	42000	N	A2	780	-1.2	85	49	157	2206
675	4000.	W	33.16	935	N	A2	750	-1.2	85	49	157	2405
676	5250.	W	11.52	3000	N	A2	665	-1.2	85	49	157	2409

677	5500.	W	742.00	9000	N	B2	726	.5	88	71	147	2303
678	4500.	W	46.50	38000	N	B2	430	1.1	87	43	38	2412
679	4500.	W	39.00	7000	N	B2	690	1.1	87	43	38	2407
680	4000.	W	5.44	65000	S	B2	420	1.1	87	43	38	2604
681	4000.	S	53.08	65000	S	B2	420	23.8	72	96	0	2605
682	3000.	W	32.79	503	N	B2	300	2.7	84	77	76	2402
683	3000.	W	33.57	5000	N	B2	531	1.1	87	43	38	2601
684	3000.	S	33.53	5000	N	B2	531	23.8	72	96	0	2601
685	4000.	W	15.27	63000	N	B2	550	1.1	87	43	38	2502
686	3000.	W	19.53	25000	S	B2	581	1.1	87	43	38	2601
687	4000.	W	27.14	536000	N	B2	470	1.1	87	43	38	2604
688	4000.	W	41.27	35000	N	B2	531	1.1	87	43	38	2502
689	4500.	W	48.31	500000	N	C2	800	.1	77	39	30	2606
690	4500.	W	44.58	500000	N	C2	800	.1	77	39	30	2412
691	5500.	W	30.08	500000	N	C2	800	.1	77	39	30	2303
692	5250.	W	35.38	243	S	C2	880	.1	77	39	30	2409
693	4000.	W	35.90	168213	N	C2	744	.1	77	39	30	2502
694	5500.	W	32.55	28000	S	C2	1050	.1	77	39	30	2303
695	4000.	W	47.09	12000	N	C2	1050	.1	77	39	30	2202
696	4000.	W	32.79	2500	N	B2	990	.4	80	30	36	2202
697	4000.	W	21.93	126000	N	B2	951	.4	80	30	36	2502
698	3000.	W	20.10	10341	N	B2	943	1.7	74	56	56	2402
699	4500.	W	12.79	3356	N	B2	904	1.7	74	56	56	2412
700	4000.	W	20.21	3080	N	B2	865	1.7	74	56	56	2405
701	3000.	W	21.09	23000	N	B2	1150	.4	80	30	36	2402
702	5250.	W	36.64	1553	N	A2	1220	1.7	74	56	56	2409
703	4000.	W	19.57	270000	N	A2	1305	1.7	74	56	56	2406
704	4000.	S	33.56	270000	N	A2	1305	23.1	72	175	0	2502
705	5500.	W	79.90	38000	N	B2	1220	1.7	74	56	56	2508
706	4000.	W	31.23	161	N	B2	2010	.9	61	9	71	2405
707	4500.	W	55.78	189	N	B2	2200	.9	61	9	71	2407
708	4500.	W	82.86	269	N	A2	3368	.9	61	9	71	2606
709	4000.	W	15.97	370000	N	B2	1040	-1.7	77	21	206	2202
710	5500.	W	17.28	150000	N	B2	1176	-2.8	76	18	211	2508
711	5000.	S	79.63	150000	N	B2	1176	21.6	71	78	0	2209
712	4000.	W	15.60	17000	N	B2	1449	-1.7	77	21	206	2502
713	5250.	W	59.25	3264	N	B2	237	-4.3	76	11	114	2409
714	5500.	W	28.22	160000	S	A1	5	12.9	83	124	2	2207
715	4000.	W	31.88	560000	N	A1	5	12.9	83	124	2	2604
716	4500.	W	9.48	560000	N	A1	5	12.9	83	124	2	2606
717	5250.	W	42.61	3551	N	A1	40	12.5	83	197	0	2409
718	4000.	W	17.44	15000	N	A1	30	12.5	83	197	0	2202
719	4000.	W	14.97	180000	N	A1	57	12.3	77	94	0	2202
720	4000.	W	21.27	180000	N	A1	57	12.3	77	94	0	2604
721	5500.	W	55.46	6500	N	A2	250	8.5	77	59	0	2207
722	4000.	S	34.64	482	N	A2	210	25.7	77	88	0	2605
723	5500.	W	37.85	1600	N	B2	325	6.9	72	76	1	2302
724	3500.	W	45.33	9000	N	B2	245	6.9	72	76	1	2499
725	3000.	W	40.75	120	N	B2	660	6.9	72	76	1	2402
726	5000.	W	26.73	24000	N	B3	290	6.9	72	76	1	2209
727	4500.	S	29.89	150000	N	B2	330	25.9	70	40	0	2606
728	3000.	W	45.21	250	N	B3	350	4.6	76	59	1	2402
729	5500.	W	393.00	60000	N	B3	450	4.5	76	59	1	2508
730	4500.	W	23.94	9000	N	B2	980	4.2	70	37	51	2606
731	3500.	W	27.89	50000	S	B2	1250	4.2	70	37	51	2499
732	5250.	W	27.88	360000	N	B2	1207	4.2	70	37	51	2409
733	5250.	W	130.80	3400	N	B2	870	6.2	71	22	0	2409

734	4000.	W	17.18	50	N	B2	850	6.2	71	22	0	2405
735	4500.	W	62.78	368	N	B2	1600	6.2	71	22	0	2412
736	5500.	W	38.75	1033	N	B2	1760	4.2	70	37	51	2207
737	3000.	W	8.18	45000	N	A2	1246	4.2	70	37	51	2601
738	4000.	W	22.89	45000	N	A2	1246	4.2	70	37	51	2202
739	3000.	W	38.81	28000	N	C3	694	4.3	74	73	1	2601
740	4500.	W	23.84	3500	N	B2	740	4.3	74	73	1	2412
741	3000.	W	13.21	330000	N	B2	744	4.3	74	73	1	2601
742	5500.	W	40.44	330000	N	B2	744	4.3	74	73	1	2508
743	5250.	W	24.45	2173	N	B2	1150	4.3	74	73	1	2409
744	5250.	W	63.91	683	N	B2	1000	4.2	70	37	51	2409
745	5000.	W	24.00	8000	N	B2	863	4.2	70	37	51	2209
746	5500.	W	21.17	1680	N	B3	600	4.6	76	59	1	2303
747	4000.	W	48.08	95000	S	B2	470	8.4	70	49	1	2502
748	5500.	W	47.32	2283	N	B2	505	8.4	70	49	1	2508
749	4500.	W	46.67	7000	N	B2	500	8.4	70	49	1	2412
750	4500.	W	12.29	850000	N	B2	512	8.4	70	49	1	2407
751	5500.	W	127.00	850000	N	B2	512	8.4	70	49	1	2207
752	4500.	W	10.02	850000	N	B2	512	8.4	70	49	1	2412
753	4500.	S	52.43	850000	N	B2	512	27.6	67	50	0	2503
754	5500.	S	40.94	850000	N	B2	512	27.6	67	50	0	2506
755	3500.	S	32.59	850000	N	B2	512	27.6	67	50	0	2201
756	4000.	W	12.41	850000	N	B2	512	8.4	70	49	1	2202
757	5500.	W	48.77	850000	N	B2	512	8.4	70	49	1	2303
758	4000.	W	35.30	850000	N	B2	512	8.4	70	49	1	2406
759	5500.	W	69.33	850000	N	B2	512	8.4	70	49	1	2302
760	4000.	W	41.11	2149	N	A2	2120	8.2	67	36	1	2604
761	4500.	W	73.88	1350000	N	A1	55	12.6	78	85	0	2608
762	4000.	W	78.29	1350000	N	A1	55	12.6	78	85	0	2502
763	4500.	S	33.40	1350000	N	A1	55	26.7	77	191	0	2412
764	4000.	W	42.80	1350000	N	A1	55	12.6	78	85	0	2406
765	4000.	W	20.14	1350000	N	A1	55	12.6	78	85	0	2502
766	4000.	W	92.37	1350000	N	A1	55	12.6	78	85	0	2604
767	4500.	W	18.69	20000	N	B2	400	12.6	78	85	0	2608
768	4000.	W	23.46	900	N	B2	70	12.6	78	85	0	2604
769	4000.	S	33.06	900	N	B2	70	46.7	77	191	0	2605
770	4500.	W	24.83	10000	N	A1	110	12.6	78	85	0	2412
771	4000.	W	14.02	6000	N	A1	90	12.6	78	85	0	2502
772	4500.	W	65.00	6600	N	A1	20	12.6	78	85	0	2606
773	3000.	W	42.42	6000	N	A1	30	12.6	78	85	0	2402
774	4000.	W	19.64	6000	N	A1	30	12.6	78	85	0	2202
775	4500.	W	17.31	3811	N	B2	20	6.2	71	22	0	2608
776	4000.	W	30.60	110000	N	A1	24	12.5	83	197	0	2202
777	3000.	W	23.22	2102	N	B2	250	10.5	75	36	1	2402
778	4000.	W	56.18	70000	N	B2	420	10.5	75	36	1	2502
779	4000.	W	30.90	700000	N	B2	701	10.5	75	36	1	2604
780	4000.	W	45.19	700000	N	B2	701	10.5	75	36	1	2502
781	4500.	W	10.15	700000	N	B2	701	10.5	75	36	1	2412
782	4000.	W	98.00	700000	N	B2	701	10.5	75	36	1	2502
783	5000.	S	70.89	700000	N	B2	701	26.7	74	117	0	2209
784	5500.	W	11.75	700000	N	B2	701	10.5	75	36	1	2508
785	5500.	W	31.85	700000	N	B2	701	10.5	75	36	1	2508
786	5000.	W	59.17	19000	N	A1	205	10.5	75	36	1	2209
787	5500.	W	33.65	7000	N	A1	35	10.5	75	36	1	2508
788	5500.	W	132.80	130000	N	A2	3676	2.3	57	11	38	2207
789	4000.	W	14.83	150000	N	A2	3241	4.8	59	11	28	2202
790	5000.	W	23.71	90000	N	A2	1738	6.9	69	29	1	2209

791	4000.	W	36.88	320000	N	B6	3762	5.2	55	22	135	2405
792	4000.	W	9.35	500000	N	B2	5280	-.4	54	7	53	2405
793	4000.	W	19.85	2350	N	D6	6728	-.4	54	7	53	2502
794	3500.	S	159.20	2350	N	D6	6728	17.9	50	54	0	2201
795	4500.	W	36.30	135000	N	B3	6008	-2.2	48	11	160	2407
796	3000.	W	121.50	97500	N	B3	4700	-1.8	56	8	107	2402
797	5500.	W	17.18	4205	N	B4	6186	-.4	54	7	53	2508
798	4000.	W	21.35	12800	N	B5	6271	-6.9	70	17	244	2604
799	3000.	W	42.73	4462	N	B5	6748	-6.9	70	17	244	2601
800	5500.	W	39.06	75000	N	B3	2726	.7	73	43	117	2303
801	4000.	W	21.32	13300	N	B6	4525	-.2	74	34	224	2405
802	4000.	W	9.86	22000	S	B6	4300	-.2	74	34	224	2202
803	4500.	W	24.68	1025	N	B6	4600	-.2	74	34	224	2412
804	3000.	W	80.00	54000	N	B6	4549	-.2	74	34	224	2402
805	4000.	W	24.85	600000	N	B5	1090	10.3	54	15	1	2604
806	4000.	W	33.80	63000	S	B5	1240	10.3	54	15	1	2406
807	3000.	W	10.63	68000	S	B5	1250	10.3	54	15	1	2402
808	5000.	W	21.55	30000	N	A2	160	11.8	44	4	0	2209
809	4000.	W	17.97	7000	N	C5	3509	10.3	54	15	1	2604
810	4500.	W	47.56	3000	N	B6	3581	8.3	47	8	1	2407
811	5500.	W	72.43	140	N	B6	3800	8.3	47	8	1	2207
812	4000.	W	71.70	280000	N	B5	2390	8.3	47	8	1	2502
813	3000.	W	10.93	16000	N	B4	7300	0.0	62	13	124	2402
814	3000.	W	608.00	10400	N	D5	3779	4.2	64	14	36	2402
815	5500.	W	32.70	600	N	B5	4450	6.9	43	15	1	2303
816	3000.	W	23.77	130000	N	B5	2030	6.9	43	15	1	2601
817	3000.	W	23.78	75000	N	B6	4498	-.5	72	14	102	2402
818	5500.	W	43.89	2900000	N	B4	287	13.2	66	96	0	2303
819	4000.	W	52.45	2900000	N	B4	287	13.2	66	96	0	2405
820	3000.	W	23.48	2900000	N	B4	287	13.2	66	96	0	2601
821	4000.	W	20.32	27000	S	B4	125	13.2	66	96	0	2604
822	3000.	W	12.54	134000	S	B4	84	13.2	66	96	0	2402
823	3000.	W	24.08	30000	S	B4	140	13.2	66	96	0	2402
824	3000.	W	35.54	20000	S	B4	50	13.2	66	96	0	2601
825	4000.	S	30.70	20000	S	B4	50	18.1	80	1	0	2605
826	3000.	W	6.79	340000	N	B4	35	12.3	63	132	0	2601
827	3500.	W	31.59	40000	S	C5	800	13.2	66	132	0	2499
828	3000.	W	150.75	40000	S	C5	800	13.2	66	132	0	2601
829	3000.	W	48.18	30000	S	C5	300	13.2	66	132	0	2601
830	4000.	W	6.34	25000	S	C5	300	13.2	66	132	0	2502
831	4500.	W	19.64	0	S	B4	300	13.2	66	132	0	2412
832	4000.	W	35.17	43000	S	C5	374	13.2	66	132	0	2502
833	4500.	W	27.00	32000	S	C5	555	13.2	66	132	0	2407
834	3000.	W	16.37	32000	S	C5	555	13.2	66	132	0	2601
835	3000.	W	32.25	30000	S	C5	330	13.2	66	132	0	2601
836	3000.	W	17.83	68000	S	C5	390	13.2	66	132	0	2601
837	4500.	W	24.33	9000	S	B3	42	13.5	56	56	0	2407
838	3000.	W	9.02	9000	S	B3	42	13.5	56	56	0	2402
839	3000.	W	53.67	34000	S	B3	500	13.5	56	56	0	2601
840	4000.	W	25.67	700000	N	B3	42	13.5	56	56	0	2405
841	3000.	W	25.52	700000	N	B3	42	13.5	56	56	0	2601
842	4000.	W	23.31	700000	N	B3	42	13.5	56	56	0	2502
843	3500.	S	75.86	700000	N	B3	42	18.3	73	1	0	2501
844	4000.	W	28.00	5000	N	D6	2573	13.2	66	132	0	2406
845	4500.	W	67.22	1304	N	D5	1000	8.2	76	30	0	2407
846	4000.	W	21.81	150000	N	B4	858	13.2	66	132	0	2502
847	5500.	W	65.00	140000	S	B4	35	13.2	66	132	0	2303

848	3000.	W	24.62	15000	N	C5	12	13.2	66	132	0	2402
849	4000.	W	27.93	4800	N	A1	246	6.9	81	32	0	2604
850	5500.	W	42.27	75000	N	A1	406	8.2	76	30	0	2303
851	4000.	W	23.76	2400	N	C5	200	9.9	67	118	0	2502
852	4500.	W	16.03	5800	N	C5	50	9.9	67	118	0	2407
853	3000.	W	32.61	97000	N	C5	130	9.2	1	60	0	2601
854	3000.	W	29.27	720000	N	C5	63	9.2	1	60	0	2601
855	4000.	W	20.35	720000	N	C5	63	9.2	1	60	0	2502
856	4500.	W	35.89	11000	S	C5	130	11.2	67	49	0	2412
857	4500.	W	18.08	79000	S	C5	55	11.2	67	49	0	2412
858	4000.	W	60.40	1360	N	C5	167	11.2	67	49	0	2406
859	3000.	W	26.30	4000	N	C5	300	9.2	1	60	0	2601
860	3000.	W	22.31	460000	N	C5	65	9.2	1	60	0	2402
861	3000.	W	36.67	460000	N	C5	65	9.2	1	60	0	2601
862	3000.	W	28.71	500	N	C5	2000	9.2	1	60	0	2601
863	4000.	W	10.14	350	N	A1	200	8.0	81	73	0	2502
864	3000.	W	15.09	6200	N	B3	42	6.7	84	154	38	2402
865	4000.	W	46.23	375000	N	B3	77	6.7	84	154	38	2502
866	5000.	W	35.33	70000	N	B3	160	6.1	81	176	0	2209
867	3500.	S	18.83	70000	N	B3	160	15.5	67	21	0	2499
868	3000.	W	88.54	70000	N	B3	160	6.1	81	176	0	2402
869	4000.	W	7.79	80000	N	B3	422	6.1	81	176	0	2202
870	5250.	W	14.47	1830	N	D5	200	6.1	81	176	0	2409
871	5250.	W	23.22	14000	N	D5	459	6.1	81	176	0	2409
872	4500.	W	19.76	61000	S	B3	100	5.8	82	164	249	2407
873	4000.	W	14.26	530000	N	B3	125	5.8	82	164	249	2502
874	3000.	W	23.00	530000	N	B3	125	5.8	82	164	249	2601
875	4000.	W	33.40	150000	N	B3	250	5.8	82	164	249	2405
876	4000.	W	46.00	150000	N	B3	250	5.8	82	164	249	2406
877	4000.	W	19.81	150000	N	B3	250	5.8	82	164	249	2405
878	4000.	W	17.39	325000	N	B6	18	24.3	70	15	0	2502
879	3000.	W	9.18	45000	N	C5	1066	1.8	83	29	41	2402
880	3000.	W	9.47	1500	N	C5	1500	-.8	88	65	422	2402
881	3000.	W	65.25	170000	N	B3	1900	-.8	88	65	422	2402
882	5000.	W	22.37	170000	N	B3	1900	-.8	88	65	422	2209
883	4000.	W	54.17	4100	N	C5	1038	1.8	83	29	41	2502
884	4500.	W	28.19	17000	N	D6	100	1.0	85	179	439	2407
885	4000.	S	17.24	14500	N	B4	356	17.6	76	84	-0	2502
886	5250.	S	53.22	165520	N	B4	200	17.6	76	84	-0	2409
887	4500.	S	39.13	18265	N	B4	250	17.6	76	84	-0	2204
888	4500.	S	30.21	52369	S	B2	165	19.7	70	53	-0	2608
889	3500.	S	37.35	52369	S	B2	165	19.7	70	53	-0	2501
890	4000.	S	23.00	4000	S	B2	150	19.7	70	53	-0	2502
891	5250.	S	28.44	32466	S	B2	150	19.7	70	53	-0	2505
892	4000.	S	38.76	86535	S	B3	71	19.7	70	53	-0	2202
893	4000.	S	93.33	23429	S	B2	21	19.7	70	53	-0	2604
894	4500.	S	45.36	2900	S	B2	180	19.7	70	53	-0	2407
895	5250.	S	33.93	-0	S	B2	20	19.7	70	53	-0	2505
896	4000.	S	23.43	103677	S	B2	20	19.7	70	53	-0	2405
897	4000.	S	25.52	28794	S	B2	44	19.7	70	53	-0	2502
898	3500.	S	25.14	29303	S	B2	162	19.7	70	53	-0	2501
899	5250.	S	11.04	3537	N	B2	60	19.7	70	53	-0	2505
900	4500.	S	45.08	1100	N	B2	50	19.7	70	53	-0	2204
901	3000.	S	31.61	7900	S	B2	212	19.7	70	53	-0	2402
902	3000.	S	580.00	6600	N	A1	30	18.9	70	120	-0	2601
903	3000.	S	67.08	5300	N	B2	332	18.9	72	120	-0	2402
904	4500.	S	17.79	4100	N	B2	306	18.9	72	120	-0	2412

905	5500.	S	31.11	77637	N	B2	201	18.9	72	120	-0	2207
906	5500.	S	5.04	77637	N	B2	201	18.9	72	120	-0	2303
907	3000.	S	38.40	-0	S	B2	30	18.9	72	120	-0	2601
908	5250.	S	52.06	400	N	B2	145	18.9	72	120	-0	2505
909	3500.	S	232.00	43500	N	B3	150	19.7	70	53	-0	2201
910	5250.	S	64.90	89500	N	B3	175	18.3	79	98	-0	2505
911	5500.	S	26.42	89500	N	B3	175	18.3	79	120	-0	2207
912	4000.	S	24.41	2400	N	B2	485	18.3	79	98	-0	2605
913	3000.	S	27.97	200	N	B2	50	16.4	82	124	-0	2601
914	4000.	S	37.59	450	N	B2	260	16.4	82	124	-0	2405
915	4000.	S	46.89	10800	N	B2	260	16.4	82	124	-0	2502
916	5250.	S	17.25	200	N	B3	340	16.4	82	124	-0	2409
917	4500.	S	32.91	2882	N	B3	340	16.4	82	124	-0	2204
918	5500.	S	36.07	10100	N	D5	485	19.1	70	63	-0	2207
919	4000.	S	24.79	28900	N	D5	300	19.1	70	63	-0	2405
920	3000.	S	27.61	300	N	D5	510	19.1	70	63	-0	2601
921	4500.	S	21.00	35000	N	B3	33	19.6	83	86	-0	2608
922	3000.	S	19.33	900	S	B3	45	19.6	83	86	-0	2601
923	3500.	S	50.63	10500	N	B3	90	19.6	83	86	-0	2499
924	3000.	S	25.24	40000	N	C3	52	20.2	71	97	-0	2402
925	4000.	S	25.89	900	S	B3	257	20.2	71	97	-0	2405
926	4500.	S	74.00	32000	N	B4	148	20.2	71	97	-0	2606
927	4500.	S	57.75	7673	N	B3	264	19.6	71	97	-0	2204
928	4000.	S	39.17	156000	N	B3	20	19.6	83	86	-0	2502
929	4000.	S	115.67	156000	N	B3	20	19.6	83	86	-0	2202
930	3000.	S	38.25	3000	N	C4	749	19.6	83	86	-0	2601
931	5250.	S	30.27	2541	N	B3	387	22.0	70	163	-0	2609
932	4000.	S	10.84	14800	S	B3	348	22.0	70	163	-0	2502
933	5500.	S	27.83	14800	S	B3	348	22.0	70	163	-0	2303
934	4500.	S	33.42	33500	S	B3	204	22.0	70	163	-0	2608
935	5250.	S	57.25	19700	N	B3	300	22.0	70	163	-0	2505
936	3500.	S	15.68	54500	S	B3	137	22.0	70	163	-0	2201
937	5250.	S	28.18	33200	S	B3	126	22.0	70	163	-0	2505
938	4500.	S	30.06	11300	S	C4	200	22.0	70	163	-0	2204
939	4000.	S	31.79	12400	S	C4	282	22.0	70	163	-0	2604
940	4000.	S	43.14	49000	N	C4	200	22.0	70	163	-0	2604
941	5500.	S	14.68	13500	N	C4	355	22.0	70	163	-0	2302
942	4000.	S	26.00	144000	N	C4	100	22.0	70	163	-0	2406
943	4500.	S	37.74	144000	N	C4	100	22.0	70	163	-0	2204
944	5250.	S	13.92	18800	S	C4	50	22.0	70	163	-0	2409
945	3000.	S	15.42	3399	N	B3	187	22.0	70	163	-0	2402
946	3500.	S	41.30	26000	S	C4	33	22.0	70	163	-0	2201
947	4000.	S	35.21	5100	N	A2	58	22.0	70	163	-0	2202
948	3500.	S	45.50	3000	N	A2	17	22.3	72	192	-0	2499
949	3500.	S	64.56	18800	N	C4	73	22.0	70	163	-0	2499
950	5250.	S	33.50	18800	N	C4	73	22.0	70	163	-0	2505
951	5000.	S	26.52	500	S	A2	327	22.3	72	192	-0	2209
952	3000.	S	243.00	8000	N	A1	95	22.3	72	192	-0	2601
953	5500.	S	25.96	-0	S	A1	40	20.6	78	179	-0	2207
954	4000.	S	15.08	-0	S	A1	30	20.6	78	179	-0	2405
955	4000.	S	13.66	-0	S	B2	60	20.9	70	183	-0	2202
956	5500.	S	28.33	8080000	N	A1	30	20.6	78	179	-0	2302
957	4000.	S	30.43	72918	S	B4	136	20.9	70	183	-0	2502
958	4500.	S	8.61	75206	S	B4	70	20.9	70	183	-0	2204
959	4000.	S	32.81	-0	S	A1	66	20.6	78	179	-0	2406
960	5250.	S	34.80	-0	S	A1	66	20.6	78	179	-0	2206
961	5500.	S	34.44	-0	S	A1	30	20.6	78	179	-0	2207

962	4500.	S	25.89	1000	N	A1	1370	20.6	78	179	-0	2608
963	4500.	S	20.46	23200	S	B2	115	20.6	78	179	-0	2606
964	3500.	S	19.32	18200	S	B2	25	20.6	78	179	-0	2499
965	4000.	S	26.97	28500	S	B2	106	20.9	70	183	-0	2405
966	5250.	S	34.24	24500	S	A1	50	20.6	78	179	-0	2206
967	4000.	S	63.91	13500	S	A1	180	20.6	78	179	-0	2202
968	3500.	S	32.63	4000	S	A1	25	20.6	78	179	-0	2201
969	5500.	S	48.35	250	N	C4	250	19.5	72	104	-0	2207
970	4000.	S	17.67	6852	N	C4	440	19.5	72	104	-0	2405
971	5250.	S	16.38	3308	N	C4	375	19.5	72	104	-0	2609
972	3000.	S	49.50	216000	N	C4	406	19.5	72	104	-0	2402
973	4000.	S	28.00	216000	N	C4	406	19.5	72	104	-0	2405
974	4500.	S	30.18	956	N	C4	990	19.5	72	104	-0	2407
975	4500.	S	72.89	18200	N	C4	895	19.5	72	104	-0	2204
976	5250.	S	23.22	3600	N	C4	370	19.5	72	104	-0	2505
977	4000.	S	17.20	26500	N	C4	600	19.5	72	104	-0	2406
978	3500.	S	21.43	26500	N	C4	600	19.5	72	104	-0	2499
979	4500.	S	26.17	21000	S	C4	610	20.0	75	93	-0	2503
980	4000.	S	71.88	101000	N	C4	610	20.4	75	93	-0	2502
981	4000.	S	40.08	10058	N	C4	767	19.5	72	104	-0	2405
982	4000.	S	37.83	2693	N	C4	40	19.5	72	104	-0	2502
983	3000.	S	84.00	600	N	C4	585	19.5	72	104	-0	2402
984	4000.	S	6.71	25058	N	C4	490	19.5	72	104	-0	2605
985	3000.	S	35.64	305000	N	C4	515	19.5	72	104	-0	2402
986	4000.	S	14.19	305000	N	C4	515	19.5	72	104	-0	2502
987	4500.	S	30.47	305000	N	C4	515	19.5	72	104	-0	2407
988	4000.	S	21.73	305000	N	C4	515	19.5	72	104	-0	2202
989	4500.	S	47.89	1949	N	B3	1500	19.5	72	104	-0	2407
990	4500.	S	10.31	16500	N	B3	937	19.5	72	104	-0	2204
991	4000.	S	47.00	650	N	B3	1000	19.5	72	104	-0	2202
992	4000.	S	26.18	15600	N	D4	800	19.9	66	116	-0	2604
993	3500.	S	32.31	15600	N	D4	800	19.9	66	116	-0	2201
994	4000.	S	24.68	17400	S	D4	1491	19.9	66	116	-0	2604
995	4000.	S	18.18	16000	N	D4	1017	19.9	66	116	-0	2502
996	4000.	S	25.24	1695	S	D4	902	19.9	66	116	-0	2604
997	5250.	S	15.59	30471	S	D4	1060	19.9	66	116	-0	2505
998	4500.	S	23.00	17000	S	D4	1000	19.9	66	116	-0	2606
999	3000.	S	50.60	6157	S	D4	720	19.9	66	116	-0	2402
1000	4000.	S	7.07	560000	N	D4	760	19.9	66	116	-0	2502
1001	4000.	S	428.00	560000	N	D4	760	19.9	66	116	-0	2604
1002	5250.	S	121.86	560000	N	D4	760	19.9	66	116	-0	2505
1003	3500.	S	40.95	22500	N	D4	1020	19.9	66	116	-0	2499
1004	4500.	S	88.00	1865	S	D4	960	19.9	66	116	-0	2608
1005	3000.	S	28.33	1313	N	D4	1260	19.9	66	116	-0	2601
1006	5250.	S	66.82	11800	N	C4	1020	19.9	66	116	-0	2505
1007	3500.	S	50.45	8805	N	C4	1235	19.9	66	116	-0	2499
1008	4000.	S	19.53	3109	N	C4	1470	19.9	66	116	-0	2605
1009	4500.	S	19.53	900	N	C4	1600	19.9	66	116	-0	2412
1010	5250.	S	34.29	19900	N	C4	1077	19.9	66	116	-0	2609
1011	4000.	S	15.42	1522	N	D4	1031	19.9	66	116	-0	2604
1012	5250.	S	69.67	6400	N	D5	800	19.9	66	116	-0	2409
1013	4000.	S	47.80	17000	N	D5	1000	20.3	74	70	-0	2502
1014	5500.	S	45.63	17000	N	D5	1000	20.3	74	70	-0	2508
1015	5250.	S	24.27	1399	N	B2	790	19.7	78	111	-0	2505
1016	3000.	S	10.22	14400	N	C4	1443	19.2	76	74	-0	2601
1017	4500.	S	82.89	27800	N	C5	1154	21.5	77	165	-0	2606
1018	4500.	S	147.33	4369	N	C4	1311	19.2	76	74	-0	2606

1019	4000.	S	30.87	9300	N	C5	420	21.5	77	165	-0	2604
1020	5250.	S	29.85	8700	N	C5	462	21.5	77	165	-0	2609
1021	4000.	S	33.06	75000	N	B2	360	21.5	77	165	-0	2405
1022	4500.	S	14.34	75000	N	B2	360	21.5	77	165	-0	2412
1023	3000.	S	16.54	10200	N	C5	713	21.5	77	165	-0	2601
1024	4000.	S	20.91	1037	N	C5	430	21.5	77	165	-0	2605
1025	5500.	S	19.06	2773	N	C5	571	21.5	77	165	-0	2207
1026	3500.	S	30.58	5594	N	B2	911	21.5	77	165	-0	2499
1027	5250.	S	22.09	900	N	B3	360	20.7	68	129	-0	2409
1028	5250.	S	14.45	6176	N	B3	490	20.7	68	129	-0	2609
1029	3500.	S	45.43	30	N	B3	840	20.7	68	129	-0	2499
1030	4500.	S	18.71	73000	N	B3	340	20.7	68	129	-0	2412
1031	3500.	S	70.44	3693	N	B3	820	20.7	68	129	-0	2499
1032	4500.	S	49.33	6318	N	B3	502	20.7	68	129	-0	2608
1033	5250.	S	67.78	1212	N	C4	1600	20.4	72	143	-0	2609
1034	4500.	S	29.35	464	S	C4	1200	20.4	72	143	-0	2503
1035	5500.	S	29.31	6765	S	B3	214	22.3	72	192	-0	2207
1036	4500.	S	139.00	4000	S	B3	170	22.3	72	192	-0	2407
1037	4000.	S	56.33	6700	S	B3	220	22.3	72	192	-0	2202
1038	4000.	S	15.07	2030000	N	B3	45	22.3	72	192	-0	2405
1039	4500.	S	16.10	2030000	N	B3	45	22.3	72	192	-0	2204
1040	5500.	S	31.40	2030000	N	B3	45	22.3	72	192	-0	2302
1041	4000.	S	20.12	40500	S	B3	130	22.3	72	192	-0	2502
1042	5250.	S	9.89	92500	N	A1	120	21.9	70	156	-0	2409
1043	4500.	S	25.72	92500	N	A1	120	21.9	70	156	-0	2608
1044	5500.	S	21.08	92500	N	A1	120	21.9	70	156	-0	2303
1045	5500.	S	22.29	810000	N	B2	150	24.7	64	55	-0	2506
1046	3000.	S	87.43	810000	N	B2	150	24.7	64	55	-0	2402
1047	3000.	S	33.50	10400	N	B2	160	24.7	64	55	-0	2601
1048	5500.	S	23.46	1400	N	B2	200	24.7	64	55	-0	2506
1049	4000.	S	40.25	22500	N	B2	60	22.8	73	97	-0	2605
1050	5500.	S	29.45	300	S	B2	32	22.8	73	97	-0	2302
1051	4000.	S	56.33	3000	N	B3	560	22.8	73	97	-0	2604
1052	5250.	S	27.32	3500	N	B2	40	22.8	73	97	-0	2609
1053	5250.	S	41.27	925000	N	B2	32	22.8	73	97	-0	2206
1054	4500.	S	25.65	200	N	C5	829	22.8	73	97	-0	2503
1055	3000.	S	59.50	35500	N	C5	552	22.8	73	97	-0	2402
1056	4500.	S	22.97	35500	N	C5	552	22.8	73	97	-0	2503
1057	5250.	S	34.08	1500	N	B3	620	21.6	73	180	-0	2505
1058	4500.	S	28.82	12500	S	B3	337	21.6	77	180	-0	2407
1059	3000.	S	35.85	15000	S	B3	300	24.7	64	55	-0	2402
1060	4000.	S	40.89	15200	S	B3	370	21.6	77	180	-0	2502
1061	5250.	S	28.19	173000	S	B3	200	24.7	64	55	-0	2206
1062	4000.	S	40.07	223000	N	B2	150	23.1	72	102	-0	2502
1063	3500.	S	14.69	100500	N	B4	948	21.9	69	39	-0	2501
1064	3500.	S	72.75	3000	N	D5	640	22.1	72	108	-0	2201
1065	5250.	S	28.63	85000	N	D5	620	22.1	72	108	-0	2409
1066	5250.	S	24.54	50000	N	D4	650	19.9	66	116	-0	2505
1067	5500.	S	25.07	10100	N	B3	853	24.0	73	43	-0	2302
1068	4000.	S	18.40	2100	N	B3	750	24.0	73	43	-0	2202
1069	5500.	S	108.57	1247	N	B2	841	24.0	73	43	-0	2303
1070	4500.	S	46.73	2942	N	B2	841	24.0	73	43	-0	2412
1071	5500.	S	12.51	131711	N	B2	841	24.0	73	43	-0	2207
1072	4500.	S	40.45	2412	N	B2	404	21.6	77	180	-0	2606
1073	5500.	S	19.65	26000	N	A2	55	23.2	72	42	-0	2207
1074	5500.	S	55.13	400	N	B2	55	23.9	66	47	-0	2506
1075	4000.	S	11.37	16941	N	B2	853	23.9	66	47	-0	2202

1076	4000.	S	23.26	51500	N	B2	102	23.2	72	42	-0	2502
1077	3500.	S	22.78	51500	N	B2	102	23.2	72	42	-0	2501
1078	3000.	S	29.25	51500	N	B2	102	23.2	72	42	-0	2402
1079	4000.	S	49.08	5911	N	B4	2146	20.4	79	54	-0	2502
1080	5500.	S	39.38	47000	N	B4	816	23.6	72	137	-0	2506
1081	3500.	S	58.06	300	N	A1	5	26.4	75	53	-0	2499
1082	4000.	S	51.00	2411	N	B3	868	24.1	73	140	-0	2406
1083	4500.	S	50.18	366	N	B2	1088	24.1	73	140	-0	2412
1084	5500.	S	27.24	1253	N	B2	890	24.1	73	140	-0	2207
1085	3000.	S	18.36	535000	N	B2	1057	24.1	73	140	-0	2601
1086	5250.	S	26.46	41000	S	B2	1055	24.1	73	140	-0	2505
1087	4500.	S	31.44	1169	N	B2	299	25.2	73	94	-0	2503
1088	5250.	S	64.88	623	N	A1	636	27.2	76	132	-0	2505
1089	3500.	S	17.10	10100	N	A1	8	26.4	80	229	-0	2501
1090	4000.	S	19.71	58500	N	A1	190	26.7	79	121	-0	2604
1091	4500.	S	65.71	8700	N	A1	55	26.7	79	121	-0	2412
1092	3500.	S	41.56	60500	N	A1	11	27.3	77	116	-0	2499
1093	4500.	S	37.13	4108	N	A1	17	27.3	77	116	-0	2606
1094	5250.	S	41.38	67000	S	A1	15	27.5	78	162	-0	2505
1095	4500.	S	15.29	7000	S	A1	10	27.5	78	162	-0	2407
1096	4000.	S	32.15	325000	N	A1	10	27.5	78	162	-0	2604
1097	4000.	S	30.67	5296	N	A1	19	26.4	80	182	-0	2604
1098	4000.	S	37.59	12749	N	A1	48	26.4	80	182	-0	2502
1099	4000.	S	12.51	42500	N	A1	24	28.1	74	222	-0	2604
1100	3500.	S	61.80	5556	N	A1	15	28.1	74	222	-0	2501
1101	4000.	S	33.20	15700	S	A1	15	28.1	74	222	-0	2405
1102	5500.	S	22.43	305000	N	A1	57	28.1	74	222	-0	2207
1103	3500.	S	109.50	345000	N	C4	601	24.7	71	62	-0	2501
1104	5500.	S	69.60	345000	N	C4	601	24.7	71	62	-0	2508
1105	3500.	S	34.30	127000	N	B2	641	24.2	71	117	-0	2501
1106	4500.	S	44.42	148000	N	B2	287	25.1	79	121	-0	2407
1107	4000.	S	32.94	35000	N	A1	326	26.7	79	121	-0	2405
1108	5250.	S	151.25	4321	N	B2	193	25.1	79	121	-0	2409
1109	4500.	S	40.75	19000	N	B2	700	25.8	72	100	-0	2606
1110	5250.	S	27.00	250	N	C3	518	24.4	72	56	-0	2409
1111	4500.	S	25.00	261000	N	C3	591	24.4	72	56	-0	2606
1112	5250.	S	18.21	7170	N	B2	717	24.2	71	117	-0	2409
1113	5250.	S	30.48	127500	N	C5	685	22.7	77	100	-0	2505
1114	4500.	S	20.03	181000	N	C3	839	23.7	77	62	-0	2204
1115	4000.	S	23.81	1005	N	B2	889	26.0	68	61	-0	2605
1116	5500.	S	43.94	13500	N	B2	295	26.0	68	61	-0	2506
1117	4500.	S	31.38	555000	N	A1	264	26.0	68	61	-0	2608
1118	4000.	S	24.87	555000	N	A1	264	26.0	68	61	-0	2202
1119	4000.	S	51.64	9900	N	C3	519	24.4	72	56	-0	2405
1120	5250.	S	57.27	5530	N	B2	448	26.0	68	61	-0	2505
1121	5250.	S	92.86	708	N	C3	420	26.0	68	61	-0	2505
1122	5500.	S	87.00	5283	N	B2	460	26.0	68	61	-0	2207
1123	4000.	S	37.50	250	N	A1	100	26.0	68	61	-0	2406
1124	5250.	S	16.74	343	N	B2	290	25.7	80	189	-0	2206
1125	5500.	S	39.94	161000	N	B2	294	25.7	80	189	-0	2302
1126	4500.	S	39.13	161000	N	B2	294	25.7	80	189	-0	2407
1127	3500.	S	23.85	46500	N	A1	25	26.3	83	312	-0	2201
1128	4000.	S	60.77	1106	N	A1	50	26.3	83	312	-0	2202
1129	5500.	S	43.06	27500	N	C3	200	24.7	71	62	-0	2207
1130	4500.	S	34.31	392000	N	B2	465	24.1	66	80	-0	2412
1131	3000.	S	14.04	392000	N	B2	465	24.1	66	80	-0	2402
1132	5250.	S	29.83	392000	N	B2	465	24.1	66	80	-0	2505

1133	5500.	S	38.11	79000	N	B2	983	23.1	68	57	-0	2302
1134	3000.	S	22.32	79000	N	B2	983	23.1	68	57	-0	2601
1135	5250.	S	65.44	3324	N	B2	760	24.4	72	56	-0	2609
1136	3500.	S	37.56	22800	N	B2	548	24.4	72	56	-0	2499
1137	4500.	S	20.48	950	N	B2	409	24.4	72	56	-0	2407
1138	4500.	S	21.47	11000	S	A2	910	22.4	77	90	-0	2204
1139	5250.	S	157.33	732	N	B2	880	22.4	77	90	-0	2609
1140	5250.	S	38.60	1976	S	A2	595	22.4	77	90	-0	2505
1141	4000.	S	22.11	540000	N	A2	700	22.4	77	90	-0	2604
1142	4500.	S	40.43	540000	N	A2	700	22.4	77	90	-0	2608
1143	5500.	S	170.50	540000	N	A2	700	22.4	77	90	-0	2508
1144	4500.	S	37.41	540000	N	A2	700	22.4	77	90	-0	2503
1145	5500.	S	22.71	8747	N	A2	991	22.4	77	90	-0	2302
1146	4500.	S	22.93	15000	S	A1	631	20.6	75	107	-0	2606
1147	3500.	S	50.86	354000	N	A1	587	20.6	75	107	-0	2201
1148	5250.	S	39.95	354000	N	A1	587	20.6	75	107	-0	2609
1149	5500.	S	33.55	354000	N	A1	587	20.6	75	107	-0	2506
1150	5250.	S	26.65	354000	N	A1	587	20.6	75	107	-0	2206
1151	4000.	S	16.07	4273	N	B3	531	20.6	75	107	-0	2202
1152	4500.	S	7.94	34500	N	C4	715	19.9	66	116	-0	2503
1153	4500.	S	21.82	6500	N	A2	630	21.0	76	104	-0	2608
1154	5250.	S	101.75	10400	N	A2	700	21.0	76	104	-0	2609
1155	4500.	S	14.45	30000	N	B2	690	21.0	76	104	-0	2204
1156	4500.	S	36.20	3500	N	B3	550	21.0	76	104	-0	2204
1157	4500.	S	19.94	3599	N	B2	625	20.8	73	70	-0	2407
1158	4500.	S	67.00	16800	N	A2	625	21.0	76	104	-0	2204
1159	3000.	S	15.62	810858	N	A2	680	21.0	76	104	-0	2402
1160	4000.	S	12.24	16500	S	A2	1050	21.0	76	104	-0	2405
1161	3500.	S	29.74	9631	S	A2	1150	21.0	76	104	-0	2501
1162	4500.	S	27.96	43000	S	A2	940	21.0	76	104	-0	2606
1163	4500.	S	13.39	15800	S	A2	630	21.0	76	104	-0	2503
1164	4500.	S	22.36	8000	S	A2	680	21.0	76	104	-0	2412
1165	4000.	S	37.17	900	N	B3	1050	20.8	73	70	-0	2502
1166	3500.	S	16.34	12308	N	B3	1050	20.8	73	70	-0	2501
1167	4500.	S	37.67	924	N	B3	780	20.8	73	70	-0	2503
1168	5500.	S	42.39	51000	N	B3	1030	20.8	73	70	-0	2508
1169	4000.	S	45.29	62500	N	B3	895	20.3	74	70	-0	2604
1170	4500.	S	69.10	162000	N	C4	840	20.3	74	70	-0	2608
1171	4500.	S	11.53	11700	N	D3	898	20.8	73	70	-0	2608
1172	4500.	S	188.50	1521	N	D3	1060	20.8	73	70	-0	2606
1173	4500.	S	13.79	33800	N	A2	600	21.0	76	104	-0	2204
1174	5000.	S	24.15	49000	N	B3	1230	20.8	73	70	-0	2209
1175	4000.	S	33.00	73000	N	B3	605	23.2	73	86	-0	2605
1176	5250.	S	60.00	343	N	B3	605	23.2	73	86	-0	2505
1177	3000.	S	37.00	5600	N	B3	539	23.2	73	86	-0	2402
1178	4500.	S	47.67	495000	N	B3	550	23.2	73	86	-0	2412
1179	5500.	S	26.82	495000	N	B3	550	23.2	73	86	-0	2303
1180	4500.	S	27.96	495000	N	B3	550	23.2	73	86	-0	2204
1181	5500.	S	34.36	4403	N	B3	550	23.2	73	86	-0	2508
1182	4000.	S	41.00	15300	N	A2	820	22.0	73	57	-0	2502
1183	4500.	S	23.36	260000	N	A2	757	22.0	73	57	-0	2407
1184	5250.	S	14.57	260000	N	A2	757	22.0	73	57	-0	2409
1185	4500.	S	31.29	260000	N	A2	757	22.0	73	57	-0	2407
1186	5250.	S	353.33	82500	N	A2	980	22.4	77	90	-0	2409
1187	3000.	S	46.71	56000	N	A2	880	22.0	73	57	-0	2601
1188	5500.	S	63.33	32800	N	A2	780	20.9	78	112	-0	2508
1189	5250.	S	12.84	5582	N	A2	855	21.9	78	146	-0	2206

1190	3500.	S	56.77	613	N	A2	710	21.9	78	146	-0	2499
1191	5250.	S	49.69	453	N	A2	890	21.9	78	146	-0	2505
1192	5500.	S	42.00	8400	N	A2	810	21.9	78	146	-0	2506
1193	4500.	S	71.67	530000	N	A2	710	21.9	78	146	-0	2503
1194	5500.	S	81.12	530000	N	A2	710	21.9	78	146	-0	2506
1195	4500.	S	19.20	530000	N	A2	710	21.9	78	146	-0	2204
1196	4000.	S	33.53	530000	N	A2	710	21.9	78	146	-0	2604
1197	5500.	S	100.67	56500	S	A2	595	22.3	71	118	-0	2207
1198	4500.	S	10.56	12800	S	A2	515	22.3	71	118	-0	2204
1199	4000.	S	24.94	115500	S	A2	590	22.3	71	118	-0	2605
1200	5250.	S	17.07	650	N	A1	730	20.9	78	112	-0	2206
1201	5500.	S	48.85	1434	N	B2	730	20.9	78	112	-0	2508
1202	3500.	S	24.17	1284	N	B2	885	20.9	78	112	-0	2499
1203	5250.	S	13.12	172000	N	B2	790	20.9	78	112	-0	2409
1204	5500.	S	31.47	8100	N	B2	940	23.2	73	86	-0	2506
1205	4500.	S	40.39	316	N	A2	870	20.9	78	112	-0	2412
1206	5250.	S	5.67	6999	N	A2	910	20.9	78	112	-0	2505
1207	5000.	S	57.00	890	N	A2	1005	20.9	78	112	-0	2209
1208	4500.	S	45.64	2335	N	A2	630	20.9	78	112	-0	2407
1209	5250.	S	46.79	603	N	A2	820	20.9	78	112	-0	2206
1210	5500.	S	48.00	70500	N	B2	496	21.9	78	146	-0	2506
1211	5250.	S	30.41	8853	N	B2	659	21.9	78	146	-0	2609
1212	5500.	S	42.28	250	N	A2	820	21.8	67	146	-0	2508
1213	4000.	S	16.58	26800	S	A2	775	21.8	67	82	-0	2605
1214	4000.	S	25.15	9600	S	B2	615	21.8	67	82	-0	2202
1215	5500.	S	39.10	9600	S	B2	615	21.8	67	82	-0	2207
1216	4000.	S	52.82	10000	S	B2	930	21.8	67	82	-0	2605
1217	4000.	S	21.85	10000	S	B2	930	21.8	67	82	-0	2604
1218	5250.	S	17.14	2698	N	A2	990	19.5	75	119	-0	2409
1219	5250.	S	72.36	20500	N	A1	600	21.8	67	82	-0	2205
1220	5250.	S	14.54	84000	N	B2	930	21.8	67	82	-0	2609
1221	5250.	S	39.72	90000	S	A1	900	21.8	67	82	-0	2609
1222	5500.	S	20.84	34800	S	A1	850	21.8	67	82	-0	2303
1223	4000.	S	31.81	85000	S	A1	850	21.8	67	82	-0	2605
1224	4000.	S	16.04	85000	S	A1	850	21.8	67	82	-0	2202
1225	5250.	S	77.75	82000	S	A1	950	21.8	67	82	-0	2409
1226	3000.	S	20.14	149000	S	A1	950	21.8	67	82	-0	2402
1227	4000.	S	16.32	149000	S	A1	950	21.8	67	82	-0	2604
1228	4500.	S	72.89	8400	S	A1	985	21.8	67	82	-0	2407
1229	4000.	S	13.11	80000	N	B2	880	21.8	67	82	-0	2405
1230	3000.	S	92.50	80000	N	B2	880	21.8	67	82	-0	2402
1231	4000.	S	46.85	80000	N	B2	880	21.8	67	82	-0	2202
1232	4500.	S	42.33	111000	N	A1	605	21.8	67	82	-0	2608
1233	4500.	S	14.16	80000	N	B2	880	21.8	67	82	-0	2204
1234	5250.	S	18.17	80000	N	B2	880	21.8	67	82	-0	2609
1235	3500.	S	14.16	7600	S	A1	600	21.8	67	82	-0	2499
1236	3500.	S	18.78	89500	S	A1	750	21.8	67	82	-0	2499
1237	4000.	S	57.21	22500	S	A1	590	20.6	75	107	-0	2405
1238	4000.	S	24.70	56000	S	A1	600	21.8	67	82	-0	2502
1239	4500.	S	65.80	36000	S	A1	600	21.8	67	82	-0	2608
1240	5250.	S	31.00	160000	N	A1	600	21.8	67	82	-0	2409
1241	4000.	S	34.13	160000	N	A1	600	21.8	67	82	-0	2605
1242	5500.	S	41.13	160000	N	A1	600	21.8	67	82	-0	2508
1243	4000.	S	207.75	160000	N	A1	600	21.8	67	82	-0	2202
1244	4000.	S	21.71	160000	N	A1	600	21.8	67	82	-0	2202
1245	4500.	S	32.50	160000	N	A1	600	21.8	67	82	-0	2503
1246	4500.	S	38.50	3312	N	A2	790	19.6	75	119	-0	2407

1247	4500.	S	49.38	452	N	A2	1055	19.6	75	119	-0	2606
1248	4000.	S	20.00	202000	N	A2	715	19.6	75	119	-0	2406
1249	5500.	S	22.61	202000	N	A2	715	19.6	75	119	-0	2207
1250	4500.	S	45.79	99000	N	A1	595	19.6	75	119	-0	2204
1251	5500.	S	19.03	99000	N	A1	595	19.6	75	119	-0	2207
1252	5250.	S	41.11	5000	N	B2	830	20.2	77	74	-0	2505
1253	3000.	S	65.78	126000	N	B2	830	20.2	77	74	-0	2402
1254	5250.	S	34.17	86000	N	A2	755	19.8	78	152	-0	2609
1255	4000.	S	31.87	42500	N	B2	820	20.2	77	74	-0	2406
1256	3500.	S	28.14	42500	N	B2	820	20.2	77	74	-0	2501
1257	5500.	S	17.85	42500	N	B2	820	20.2	77	74	-0	2506
1258	4500.	S	37.93	971	N	A2	473	21.3	76	139	-0	2503
1259	3500.	S	75.15	3125	N	A2	739	19.8	78	152	-0	2499
1260	5250.	S	33.39	50500	N	B2	940	20.2	77	74	-0	2409
1261	4500.	S	34.50	2653	N	A1	695	20.6	75	107	-0	2503
1262	4000.	S	45.29	300	N	A1	985	20.6	75	107	-0	2406
1263	5250.	S	34.75	203000	N	B2	610	19.8	78	152	-0	2205
1264	4500.	S	19.16	203000	N	B2	610	19.8	78	152	-0	2606
1265	5250.	S	18.14	203000	N	B2	610	19.8	78	152	-0	2206
1266	3000.	S	54.29	718	N	B2	905	19.8	78	152	-0	2402
1267	5250.	S	52.33	600	N	A2	1185	17.8	74	96	-0	2409
1268	5250.	S	31.76	4722	N	A2	927	17.8	74	96	-0	2505
1269	5250.	S	15.91	21000	N	B2	620	16.2	77	117	-0	2505
1270	5250.	S	49.42	5910	N	B2	975	22.4	71	152	-0	2609
1271	4500.	S	40.81	460	N	B2	1230	22.4	71	152	-0	2606
1272	5500.	S	86.44	13720	N	B2	850	22.5	71	152	-0	2506
1273	3500.	S	51.82	206739	N	B2	803	22.5	71	152	-0	2499
1274	3500.	S	49.56	206739	N	B2	803	22.5	71	152	-0	2201
1275	4000.	S	13.88	206739	N	B2	803	22.5	71	152	-0	2405
1276	3000.	S	39.57	430	N	B2	1155	20.8	72	136	-0	2601
1277	5250.	S	70.09	2323	N	A2	1166	21.7	70	102	-0	2505
1278	4500.	S	21.54	3354	N	B2	1201	20.8	72	136	-0	2407
1279	4000.	S	16.73	1523	N	C2	1440	22.5	70	109	-0	2406
1280	3000.	S	53.60	1340	N	C2	1103	22.5	70	109	-0	2402
1281	4500.	S	35.32	59500	N	C3	650	20.3	71	95	-0	2606
1282	4000.	S	20.18	4616	N	B2	829	20.3	71	95	-0	2502
1283	3500.	S	99.22	4899	N	B2	800	21.7	70	102	-0	2501
1284	3500.	S	53.09	1085	N	B2	633	22.4	71	152	-0	2499
1285	5250.	S	9.57	103545	N	B2	730	20.3	71	95	-0	2409
1286	3000.	S	9.27	103545	N	B2	730	20.3	71	95	-0	2601
1287	4000.	S	22.48	103545	N	B2	730	20.3	71	95	-0	2502
1288	4000.	S	23.24	34000	N	C2	650	22.4	71	152	-0	2202
1289	3000.	S	38.04	4061	N	B2	670	18.7	80	101	-0	2601
1290	4500.	S	64.22	12900	N	B2	895	18.7	80	101	-0	2606
1291	5250.	S	14.54	21400	S	B2	715	18.7	80	101	-0	2609
1292	4500.	S	37.86	765000	N	B2	630	18.7	80	101	-0	2606
1293	4000.	S	21.31	765000	N	B2	630	18.7	80	101	-0	2604
1294	5500.	S	8.60	765000	N	B2	630	18.7	80	101	-0	2303
1295	4000.	S	52.31	765000	N	B2	630	18.7	80	101	-0	2405
1296	4500.	S	45.06	3800	S	B2	610	18.7	80	101	-0	2606
1297	4500.	S	44.89	9800	S	B2	610	18.7	80	101	-0	2503
1298	4000.	S	49.82	765000	N	B2	630	18.7	80	101	-0	2605
1299	4000.	S	28.22	94500	N	A2	630	18.7	80	101	-0	2502
1300	4000.	S	20.95	159000	N	B2	860	20.7	68	109	-0	2605
1301	3500.	S	355.00	6957	N	C3	920	20.3	71	95	-0	2501
1302	4000.	S	76.03	522	N	B2	850	20.7	68	109	-0	2604
1303	4500.	S	19.76	82500	N	A2	590	18.5	77	134	-0	2608

1304	4500.	S	6.24	32500	N	A2	590	18.5	77	134	-0	2407
1305	5250.	S	31.55	82500	N	A2	590	18.5	77	134	-0	2609
1306	4500.	S	48.33	32000	N	B2	1165	18.5	77	134	-0	2407
1307	5250.	S	18.47	32000	N	B2	1165	18.5	77	134	-0	2609
1308	4500.	S	27.54	660	N	B2	943	20.4	69	203	-0	2412
1309	3500.	S	22.59	815	N	B2	1095	20.4	69	203	-0	2499
1310	4000.	S	44.33	33000	N	A2	630	14.4	81	142	-0	2502
1311	4500.	S	39.07	15300	N	A2	765	18.5	77	134	-0	2606
1312	4500.	S	45.32	10531	S	B2	1000	20.4	69	203	-0	2204
1313	4000.	S	71.25	19410	S	B2	929	20.4	69	203	-0	2604
1314	4000.	S	21.53	19410	S	B2	929	20.4	69	203	-0	2502
1315	3000.	S	33.13	465000	N	B2	840	20.4	69	203	-0	2402
1316	4000.	S	24.60	465000	N	B2	840	20.4	69	203	-0	2202
1317	4500.	S	26.05	29581	S	B2	950	20.4	69	203	-0	2503
1318	3500.	S	83.86	13064	S	B2	1000	20.4	69	203	-0	2501
1319	4500.	S	44.06	694	N	A2	1289	20.5	74	73	-0	2503
1320	5500.	S	85.38	980	N	B2	1432	18.4	77	239	-0	2506
1321	4000.	S	107.83	35800	N	A2	1580	16.7	68	87	-0	2405
1322	5250.	S	21.53	16500	N	C4	4810	13.8	60	84	-0	2206
1323	5500.	S	77.88	50789	N	A2	640	21.4	74	129	-0	2506
1324	4500.	S	46.33	50789	N	A2	640	21.4	74	129	-0	2204
1325	5250.	S	91.75	23200	S	A2	635	21.4	74	129	-0	2609
1326	4500.	S	23.47	4345	N	A2	685	21.4	74	129	-0	2204
1327	5500.	S	32.86	3336	N	A2	595	21.4	68	119	-0	2207
1328	5500.	S	9.51	54000	N	A2	595	21.4	74	129	-0	2508
1329	3500.	S	23.40	12100	N	A2	650	21.4	74	129	-0	2499
1330	4000.	S	28.35	4500	N	A2	770	21.4	74	129	-0	2502
1331	5500.	S	84.11	81000	S	A2	600	21.4	74	129	-0	2302
1332	4000.	S	27.26	81000	S	A2	600	21.4	74	129	-0	2502
1333	4000.	S	43.00	69500	N	A2	640	22.3	71	118	-0	2405
1334	4500.	S	50.00	3714	N	A2	620	22.3	71	118	-0	2407
1335	5500.	S	34.50	933	S	A2	620	22.3	71	118	-0	2506
1336	5250.	S	15.83	15200	S	A2	600	22.3	71	118	-0	2206
1337	4000.	S	37.06	10600	S	A2	615	22.3	71	118	-0	2405
1338	4000.	S	45.47	11600	S	A2	719	22.3	71	118	-0	2604
1339	4000.	S	36.29	14738	S	A2	690	22.3	71	118	-0	2406
1340	3000.	S	18.70	14738	S	A2	690	22.3	71	118	-0	2601
1341	4500.	S	38.84	14738	S	A2	690	22.3	71	118	-0	2204
1342	3000.	S	27.35	3520000	N	A2	595	22.3	71	118	-0	2601
1343	5500.	S	90.86	3520000	N	A2	595	22.3	71	118	-0	2302
1344	4500.	S	17.62	3520000	N	A2	595	22.3	71	118	-0	2204
1345	4500.	S	17.05	3520000	N	A2	595	22.3	71	118	-0	2407
1346	4500.	S	43.00	3520000	N	A2	595	22.3	71	118	-0	2608
1347	4000.	S	32.33	3520000	N	A2	595	22.3	71	118	-0	2605
1348	3500.	S	30.00	3520000	N	A2	595	22.3	71	118	-0	2501
1349	5250.	S	18.23	3520000	N	A2	595	22.3	71	118	-0	2505
1350	4000.	S	24.40	3520000	N	A2	595	22.3	71	118	-0	2502
1351	4500.	S	7.79	27800	N	A1	630	22.3	71	118	-0	2204
1352	5500.	S	21.05	7554	N	A2	795	21.4	68	119	-0	2508
1353	5500.	S	43.50	659	N	A2	655	21.4	68	119	-0	2303
1354	5250.	S	23.14	11443	N	B2	470	21.4	68	119	-0	2505
1355	4500.	S	13.91	386	N	B2	780	21.4	68	119	-0	2407
1356	4500.	S	16.76	127000	N	B2	470	21.4	68	119	-0	2407
1357	5250.	S	25.27	127000	N	B2	470	21.4	68	119	-0	2409
1358	5500.	S	69.00	1600	N	A2	660	23.1	69	111	-0	2207
1359	3500.	S	50.00	43200	N	A2	605	23.1	69	111	-0	2499
1360	4000.	S	26.62	12100	N	B2	760	23.8	72	96	-0	2405

1361	4000.	S	24.52	3452	N	B2	545	23.8	72	96	-0	2502
1362	3500.	S	33.29	4363	N	B2	470	23.1	69	111	-0	2501
1363	4000.	S	29.58	87000	N	B2	610	23.1	69	111	-0	2604
1364	4500.	S	49.73	87000	N	B2	610	23.1	69	111	-0	2412
1365	3500.	S	50.00	6000	S	B2	500	23.8	72	96	-0	2501
1366	5500.	S	21.05	1900	S	B2	650	23.8	72	96	-0	2302
1367	4000.	S	14.68	710000	N	B2	760	23.8	72	96	-0	2406
1368	5500.	S	5.73	710000	N	B2	760	23.8	72	96	-0	2508
1369	5500.	S	16.70	20000	N	B2	491	23.1	69	111	-0	2508
1370	3500.	S	51.63	13000	S	C3	1043	23.4	75	62	-0	2499
1371	3000.	S	52.65	530000	N	C3	800	23.4	75	62	-0	2601
1372	3500.	S	18.98	530000	N	C3	800	23.4	75	62	-0	2201
1373	5250.	S	35.88	2160	N	B2	940	23.6	75	152	-0	2206
1374	4000.	S	60.36	38500	N	B3	972	23.6	74	287	-0	2604
1375	5250.	S	27.78	11800	N	B2	770	23.4	75	62	-0	2409
1376	4500.	S	8.27	601	N	B3	1300	22.6	74	287	-0	2503
1377	5500.	S	72.55	38800	N	C2	850	23.4	73	123	-0	2302
1378	5500.	S	24.95	4784	N	B2	900	23.4	73	123	-0	2207
1379	4000.	S	41.83	14989	S	C3	1050	23.4	75	62	-0	2405
1380	5500.	S	37.75	127500	N	B2	951	23.4	73	123	-0	2207
1381	4000.	S	33.56	275000	N	A2	1305	23.1	72	175	-0	2502
1382	5250.	S	104.17	275000	N	A2	1305	23.1	72	175	-0	2206
1383	5250.	S	18.08	275000	N	A2	1305	23.1	72	175	-0	2505
1384	4500.	S	73.60	4701	N	B2	1700	23.1	72	175	-0	2204
1385	3000.	S	16.07	203	N	B2	1400	21.6	71	78	-0	2402
1386	4500.	S	28.67	5079	N	B3	3380	18.7	70	109	-0	2204
1387	3500.	S	65.17	5079	N	B3	3380	18.7	70	109	-0	2201
1388	5250.	S	49.57	21500	S	A1	20	26.3	83	312	-0	2609
1389	3500.	S	53.85	16700	N	A1	20	26.6	84	138	-0	2201
1390	3500.	S	63.00	11783	N	A1	30	26.6	84	138	-0	2499
1391	5500.	S	53.22	30700	N	A1	25	26.3	83	312	-0	2207
1392	5250.	S	39.00	78000	N	A1	20	26.6	84	138	-0	2206
1393	5250.	S	222.00	4483	N	A2	204	25.7	77	88	-0	2609
1394	4500.	S	38.81	314	N	A2	275	25.7	77	88	-0	2204
1395	3500.	S	29.13	192000	N	A2	204	25.7	77	88	-0	2501
1396	4000.	S	34.64	192000	N	A2	204	25.7	77	88	-0	2605
1397	5250.	S	29.13	3112	N	B2	250	25.7	77	88	-0	2206
1398	4000.	S	30.23	57389	N	B3	230	25.9	70	40	-0	2405
1399	5500.	S	90.00	35631	N	B2	632	25.9	70	40	-0	2506
1400	5250.	S	47.17	297	N	C4	330	25.9	70	40	-0	2609
1401	5250.	S	41.71	6814	N	D5	389	24.3	74	149	-0	2206
1402	5250.	S	244.00	200	N	D5	443	24.3	74	149	-0	2409
1403	5500.	S	33.29	28500	N	A1	320	26.0	68	61	-0	2207
1404	4500.	S	160.20	7600	N	D5	1371	24.3	74	149	-0	2407
1405	5250.	S	51.36	1612	N	D5	1450	24.3	74	149	-0	2505
1406	4500.	S	49.75	378000	N	B2	1207	23.9	72	122	-0	2503
1407	3500.	S	83.50	23300	N	A2	1389	26.3	65	43	-0	2501
1408	4000.	S	15.02	4638	N	B2	1539	23.9	72	122	-0	2604
1409	4500.	S	64.60	343000	N	B2	744	24.4	78	171	-0	2606
1410	4000.	S	34.47	343000	N	B2	744	24.4	78	171	-0	2604
1411	5500.	S	30.26	15200	N	B2	632	27.2	67	50	-0	2506
1412	5250.	S	23.34	63300	S	B2	491	27.2	67	50	-0	2409
1413	5500.	S	23.27	844401	N	B2	512	27.2	67	50	-0	2302
1414	5500.	S	19.86	844401	N	B2	512	27.2	67	50	-0	2508
1415	4500.	S	52.43	844401	N	B2	512	27.2	67	50	-0	2503
1416	5500.	S	40.94	844401	N	B2	512	27.2	67	50	-0	2506
1417	3500.	S	32.59	844401	N	B2	512	27.2	67	50	-0	2201

1418	4500.	S	45.50	844401	N	B2	512	27.2	67	50	-0	2503
1419	4500.	S	43.71	4196	N	B2	385	25.7	77	88	-0	2412
1420	5500.	S	84.29	23500	N	B2	412	25.7	77	88	-0	2303
1421	5500.	S	45.97	6251	N	A1	228	26.7	77	191	-0	2506
1422	5500.	S	20.08	90032	S	B2	616	27.2	67	50	-0	2506
1423	5500.	S	53.92	90032	N	B2	616	27.2	67	50	-0	2302
1424	4500.	S	20.54	16400	N	B2	764	27.2	67	50	-0	2407
1425	5250.	S	32.45	13300	N	B2	738	27.2	67	50	-0	2206
1426	4500.	S	41.50	1233535	N	A1	55	26.7	77	191	-0	2204
1427	4500.	S	33.40	1233535	N	A1	55	26.7	77	191	-0	2412
1428	3500.	S	16.09	1233535	N	A1	55	26.7	77	191	-0	2201
1429	5500.	S	18.00	1233535	N	A1	55	26.7	77	191	-0	2302
1430	5150.	S	34.87	1233535	N	A1	55	26.7	77	191	-0	2609
1431	4000.	S	8.15	1233535	N	A1	55	26.7	77	191	-0	2202
1432	5500.	S	14.30	1000	N	A1	55	26.7	77	191	-0	2506
1433	4500.	S	38.25	1681	N	A1	55	26.7	77	191	-0	2407
1434	4500.	S	59.43	73000	S	A1	35	26.7	77	191	-0	2407
1435	3000.	S	65.27	300	N	A1	90	26.7	77	191	-0	2402
1436	4500.	S	23.07	67100	N	A1	18	26.6	82	126	-0	2606
1437	5250.	S	19.61	758000	N	B2	701	26.7	74	117	-0	2206
1438	4000.	S	47.18	758000	N	B2	701	26.7	74	117	-0	2605
1439	4000.	S	21.95	758000	N	B2	701	26.7	74	117	-0	2202
1440	4500.	S	15.46	758000	N	B2	701	26.7	74	117	-0	2204
1441	5000.	S	70.89	758000	N	B2	701	26.7	74	117	-0	2209
1442	5500.	S	23.07	25200	N	A1	66	28.6	77	33	-0	2302
1443	5500.	S	66.13	210000	N	A1	35	28.6	77	33	-0	2302
1444	3500.	S	29.58	50400	N	A1	33	28.1	77	56	-0	2201
1445	5250.	S	8.48	4437	N	B2	292	26.7	74	117	-0	2206
1446	5250.	S	12.23	4719	N	B2	200	26.6	77	180	-0	2206
1447	4500.	S	10.76	307000	N	B2	550	26.6	77	180	-0	2606
1448	4500.	S	40.93	10764	N	B2	913	26.7	74	117	-0	2412
1449	5500.	S	22.05	132000	N	A2	3676	22.9	60	105	-0	2302
1450	5250.	S	11.24	159000	N	A2	3241	25.2	53	46	-0	2206
1451	4000.	S	28.18	93000	N	A2	1738	25.8	63	43	-0	2604
1452	5250.	S	63.31	58900	N	A2	2779	26.8	52	14	-0	2505
1453	3500.	S	119.60	35000	N	B3	2397	26.8	52	14	-0	2499
1454	5500.	S	20.07	76000	N	A2	2890	26.8	52	14	-0	2506
1455	3000.	S	36.00	18800	S	B2	5300	17.9	50	54	-0	2402
1456	4500.	S	124.33	51000	S	B2	5450	17.9	50	54	-0	2608
1457	4000.	S	23.44	50000	N	D6	5360	17.9	50	54	-0	2202
1458	4500.	S	15.50	3148	N	B3	3893	21.1	47	52	-0	2503
1459	4500.	S	59.18	25200	N	B4	4596	19.7	33	11	-0	2503
1460	5250.	S	95.14	874	N	B4	4720	19.7	33	11	-0	2206
1461	5250.	S	20.61	5806	N	D6	4061	14.7	63	116	-0	2206
1462	5250.	S	92.25	11500	N	D6	3745	14.7	63	116	-0	2609
1463	3500.	S	13.81	13783	N	C5	2583	17.6	45	33	-0	2499
1464	3500.	S	51.83	22500	N	B6	4372	18.2	47	46	-0	2201
1465	4500.	S	15.19	172000	N	B6	4260	18.2	47	46	-0	2412
1466	5500.	S	74.11	54504	N	B5	1250	30.3	16	0	-0	2207
1467	5500.	S	13.18	20500	S	B5	1135	30.3	16	0	-0	2506
1468	4500.	S	28.25	290000	N	B6	4958	22.8	24	0	-0	2503
1469	3500.	S	52.57	6028	N	B4	6436	22.8	24	0	-0	2201
1470	5500.	S	47.50	27000	N	B2	3100	24.8	43	14	-0	2506
1471	5500.	S	23.21	3039	N	B6	4320	16.9	39	5	-0	2303
1472	5500.	S	46.24	84000	N	B6	4498	16.9	39	5	-0	2302
1473	5500.	S	15.00	2750000	N	B4	287	18.1	80	1	-0	2302
1474	4500.	S	27.29	2750000	N	B4	287	18.1	80	1	-0	2407

1475	3500.	S	38.13	2750000	N	B4	287	18.1	80	1	-0	2201
1476	4000.	S	40.89	2750000	N	B4	287	18.1	80	1	-0	2502
1477	5500.	S	47.71	69000	S	B4	66	18.1	80	0	-0	2207
1478	4000.	S	14.02	55400	S	B4	75	18.1	80	0	-0	2202
1479	4000.	S	25.25	64400	S	B4	47	18.1	80	0	-0	2605
1480	4500.	S	10.09	64400	N	B4	47	18.1	80	1	-0	2407
1481	4000.	S	47.82	-0	S	B4	287	19.3	73	0	-0	2502
1482	4000.	S	74.31	6000	N	D6	13500	18.1	80	0	-0	2405
1483	4500.	S	35.44	-0	S	C5	287	18.1	80	0	-0	2606
1484	3000.	S	38.39	7700	S	C5	287	18.1	80	0	-0	2402
1485	4000.	S	41.90	-0	S	C5	287	18.1	80	0	-0	2604
1486	3500.	S	65.00	24600	N	C5	720	18.1	80	0	-0	2501
1487	5500.	S	54.73	60700	S	B4	483	18.1	80	0	-0	2302
1488	3500.	S	26.42	20000	N	B3	39	18.3	71	0	-0	2499
1489	3500.	S	75.88	765000	N	B3	42	18.3	71	0	-0	2501
1490	3500.	S	23.65	765000	N	B3	42	18.3	71	1	-0	2499
1491	5500.	S	63.17	27000	N	B5	420	18.1	80	0	-0	2302
1492	3000.	S	13.38	20000	N	B5	975	18.1	80	0	-0	2601
1493	5250.	S	13.50	23900	N	B5	1275	18.1	80	0	-0	2206
1494	3500.	S	23.44	4872	N	C5	520	18.1	80	0	-0	2499
1495	5250.	S	35.17	80600	N	C5	50	18.1	80	0	-0	2409
1496	3000.	S	20.30	80600	N	C5	50	18.1	80	0	-0	2601
1497	3500.	S	44.00	13900	N	A1	459	27.3	33	0	-0	2201
1498	4500.	S	70.90	18200	N	A1	290	27.3	33	0	-0	2608
1499	3000.	S	20.97	77500	N	A1	406	27.3	33	0	-0	2601
1500	4000.	S	14.10	7000	N	D6	2220	27.3	33	0	-0	2502
1501	5500.	S	427.00	3747	N	A1	294	23.7	43	0	-0	2207
1502	5500.	S	35.11	175500	N	A1	294	23.7	43	0	-0	2303
1503	4000.	S	31.94	65100	N	C5	50	16.2	76	2	-0	2605
1504	4500.	S	40.17	8085	S	C5	50	15.4	70	1	-0	2407
1505	5500.	S	56.92	95976	S	C5	130	15.4	70	1	-0	2303
1506	4500.	S	66.00	12100	N	C5	23	16.2	76	2	-0	2608
1507	5500.	S	24.00	107400	N	C5	152	16.2	76	2	-0	2207
1508	4000.	S	19.44	107400	N	C5	152	16.2	76	2	-0	2405
1509	5500.	S	16.79	16300	N	C5	384	15.4	70	1	-0	2303
1510	4000.	S	19.32	84800	N	C5	85	15.4	70	1	-0	2202
1511	5500.	S	41.00	84800	N	C5	85	15.4	70	1	-0	2303
1512	5500.	S	50.67	315000	N	C5	65	15.4	70	1	-0	2302
1513	3500.	S	42.78	535000	N	C5	65	15.4	70	1	-0	2201
1514	3000.	S	52.36	535000	N	C5	65	15.4	70	1	-0	2402
1515	4000.	S	74.36	535000	N	C5	65	15.4	70	1	-0	2202
1516	4000.	S	32.17	500	N	D5	3967	21.2	33	2	-0	2502
1517	4000.	S	43.00	21500	N	B2	160	22.9	51	1	-0	2405
1518	5500.	S	31.53	265000	N	A1	25	22.9	51	1	-0	2303
1519	4500.	S	31.90	4821	N	B3	60	16.6	63	29	-0	2204
1520	4500.	S	15.47	1903	N	B3	796	16.6	63	29	-0	2606
1521	4000.	S	133.00	2322	N	D6	459	16.6	75	22	-0	2502
1522	4000.	S	47.50	13100	N	D6	4105	17.7	49	10	-0	2604
1523	5250.	S	23.50	20800	N	B3	66	15.9	65	21	-0	2609
1524	3000.	S	36.50	13100	N	B3	440	15.9	65	21	-0	2402
1525	3500.	S	22.59	490000	N	B3	125	15.9	65	21	-0	2501
1526	3000.	S	31.45	8100	N	B3	31	15.9	65	21	-0	2601
1527	4500.	S	42.30	148000	N	B3	250	15.9	65	21	-0	2606
1528	4500.	S	16.14	25800	N	B3	100	14.2	69	18	-0	2407
1529	4000.	S	65.50	26800	N	C3	21	16.6	63	29	-0	2604
1530	3500.	S	38.68	913	N	D6	727	15.9	65	21	-0	2501
1531	4500.	S	13.97	163000	N	B3	1000	15.1	54	37	-0	2412
1532	5500.	S	56.45	15300	N	B2	380	18.2	54	12	-0	2506

APPENDIX B

FUEL ECONOMY SCATTER PLOTS

APPENDIX B

FUEL ECONOMY SCATTER PLOTS

This appendix contains 192 scatter plots that illustrate the variation between fuel economy (mpg) and each of eight parameters (population, zip code, terrain index, elevation, relative humidity, precipitation, temperature, and average miles per day) for 24 carline classes that contain at least 20 cars. These carline classes have the following parameters in common: Division (of General Motors), Inertia Weight, CID and BBL, Transmission Type, and Axle Ratio. (Refer to Table 2-5 for an explanation of the class code.) Also displayed on each plot is a correlation coefficient and a 95-percent confidence interval for that correlation coefficient.

For each class of cars, the first plot shows mpg versus population of the city in which the driver resides. Because of the large range in population associated with this study, those cities with populations greater than or equal to 100,000 are shown plotted as cities with exactly 100,000 people. Actual populations were, of course, used in the computation of the correlation coefficients and confidence intervals.

The second plot shows mpg versus the first digit of the zip code of the driver's address. (The zip code scale includes "10" due to an idiosyncrasy in the plotting subroutine used.)

The third plot for each class of cars shows mpg versus the terrain index. Actually, only that portion of the terrain index was used that corresponds to the local slope of the city in which the driver resides. (Refer to Section 2 for a more detailed discussion of this factor.)

The fourth plot shows mpg versus the average elevation above sea level of the city in which the driver resides. Elevations greater than or equal to 5000 feet are shown plotted at 5000 feet. Actual elevations were used in the computation of the correlation coefficients and confidence intervals.

The fifth, sixth, and seventh plots for each class of cars show mpg versus relative humidity, precipitation, and temperature respectively. These weather data correspond to averages over the months of December 1974 or June 1975 depending on whether the fuel economy data were acquired from the low mileage winter survey or the low mileage spring-summer survey. (Refer to Section 2 for further discussion of this factor.)

The eighth and final plot shows mpg versus miles per day averaged over the duration of the test.

GM FUEL ECONOMY STUDY

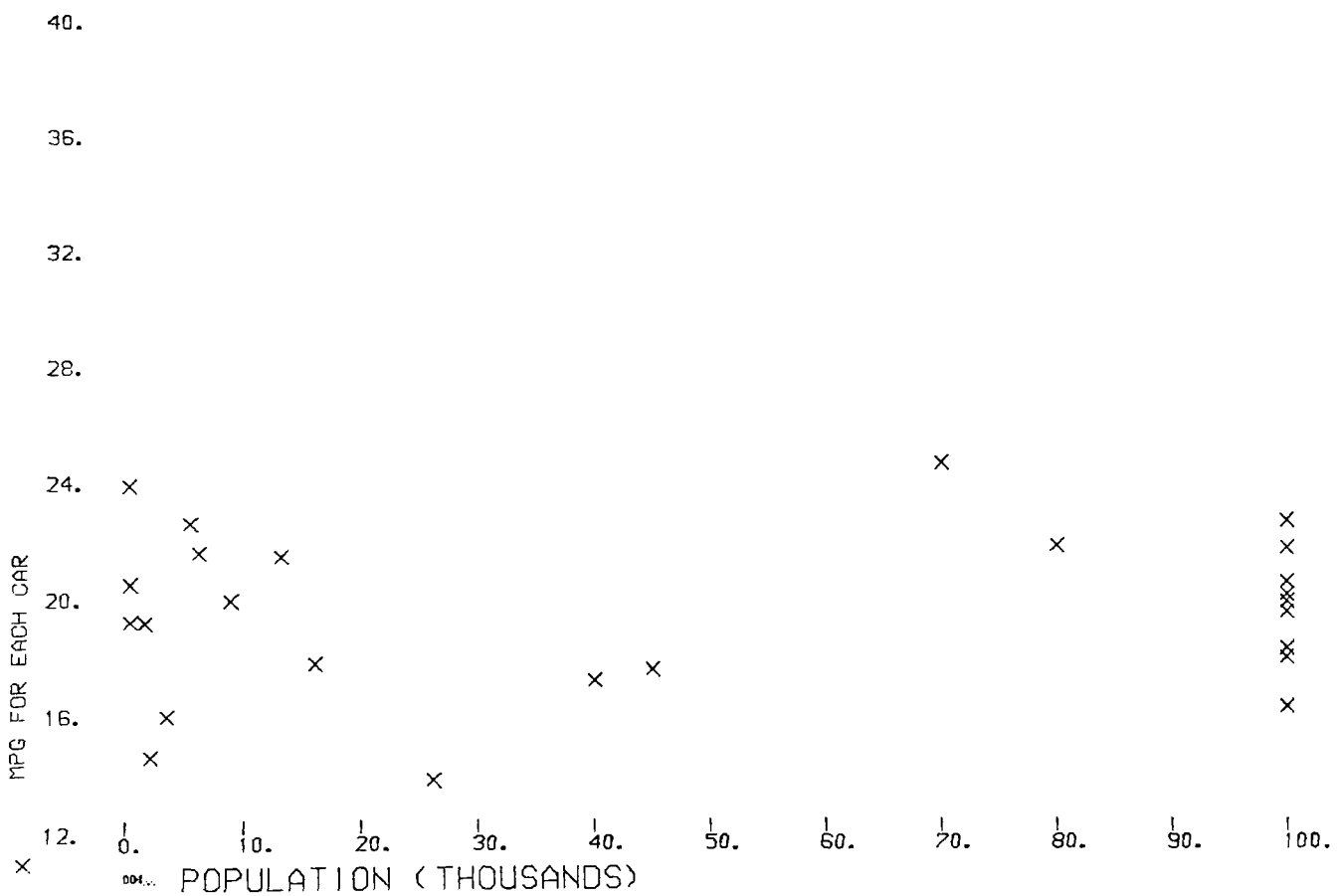
MPG VERSUS POPULATION

CLASS 13000313

DATE 062476

CORRELATION COEFFICIENT =-.0291

95 PERCENT CONFIDENCE INTERVAL = (-.4118, .3623)



GM FUEL ECONOMY STUDY

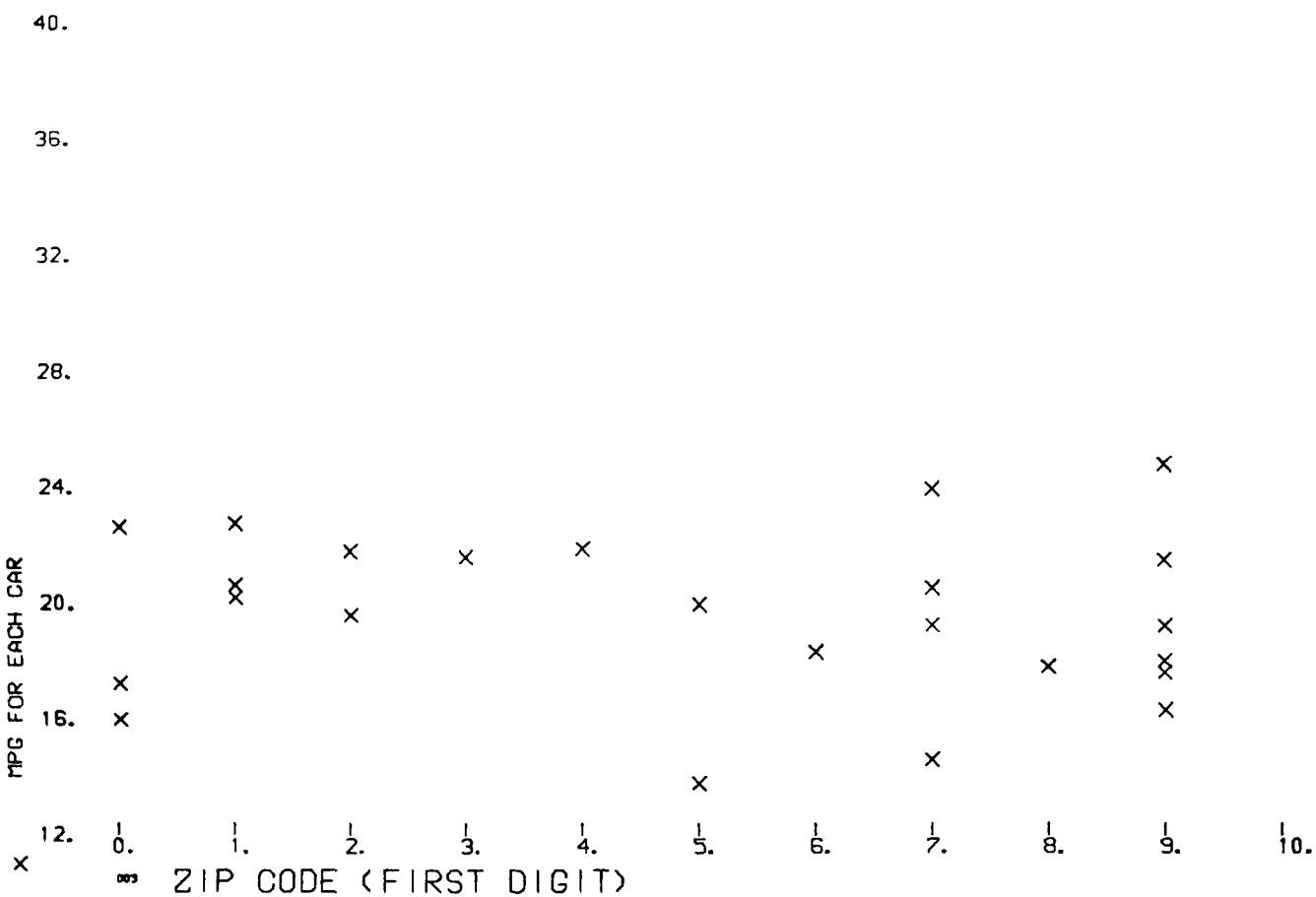
MPG VERSUS ZIP CODE

CLASS 13000313

DATE 062476

CORRELATION COEFFICIENT =-.1135

95 PERCENT CONFIDENCE INTERVAL = (-.4798, .2864)



GM FUEL ECONOMY STUDY

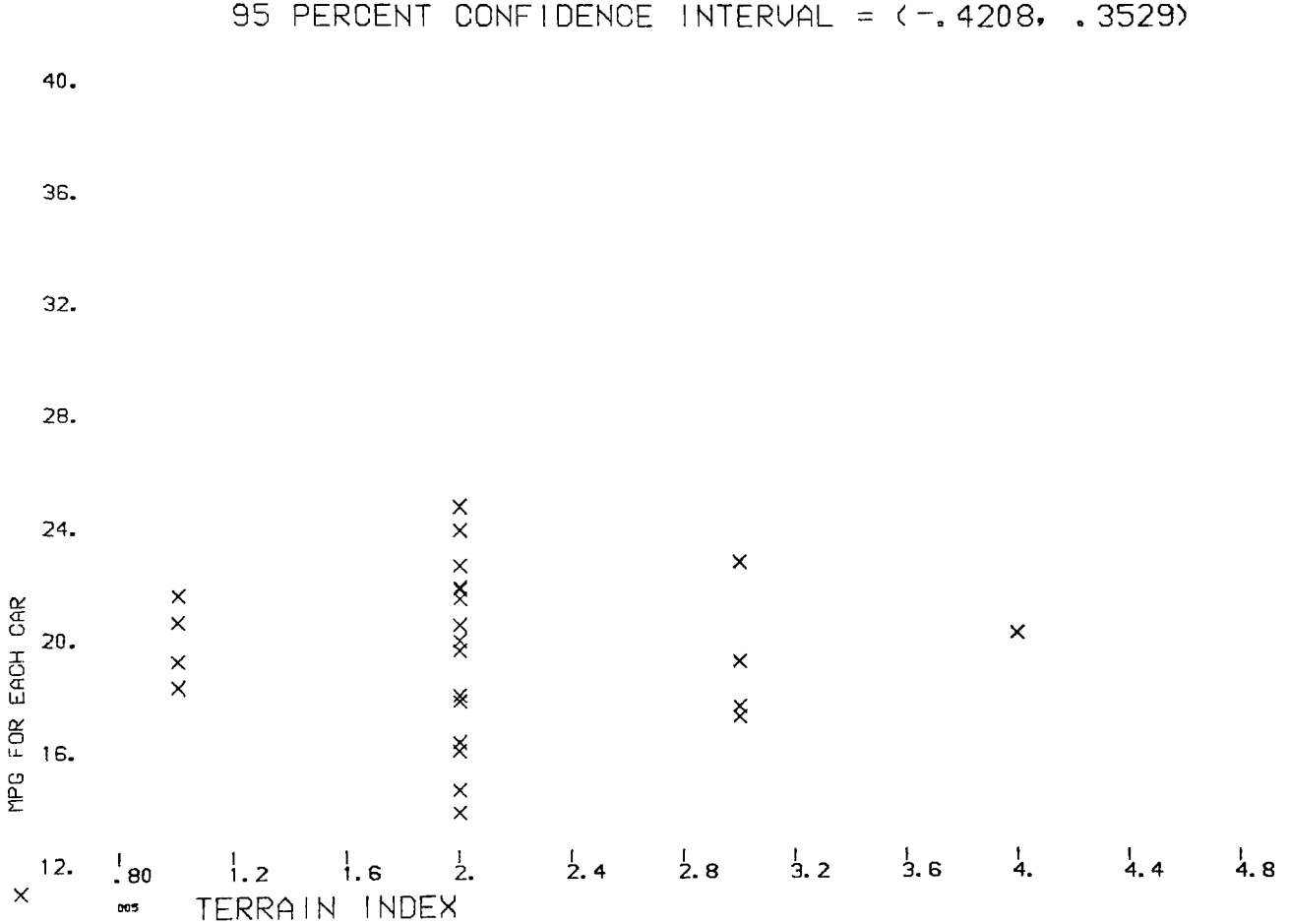
MPG VERSUS TERRAIN INDEX

CLASS 13000313

DATE 062476

CORRELATION COEFFICIENT =-.0399

95 PERCENT CONFIDENCE INTERVAL = (-.4208, .3529)



GM FUEL ECONOMY STUDY

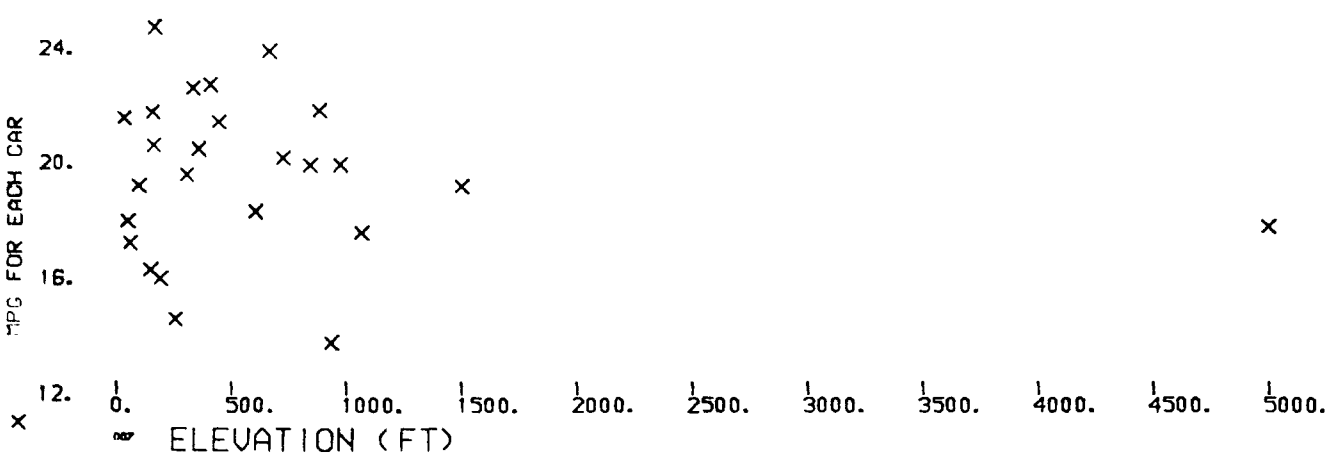
MPG VERSUS ELEVATION

CLASS 13000313

DATE 062476

CORRELATION COEFFICIENT =-.1457

95 PERCENT CONFIDENCE INTERVAL = (-.5046, .2561)



GM FUEL ECONOMY STUDY

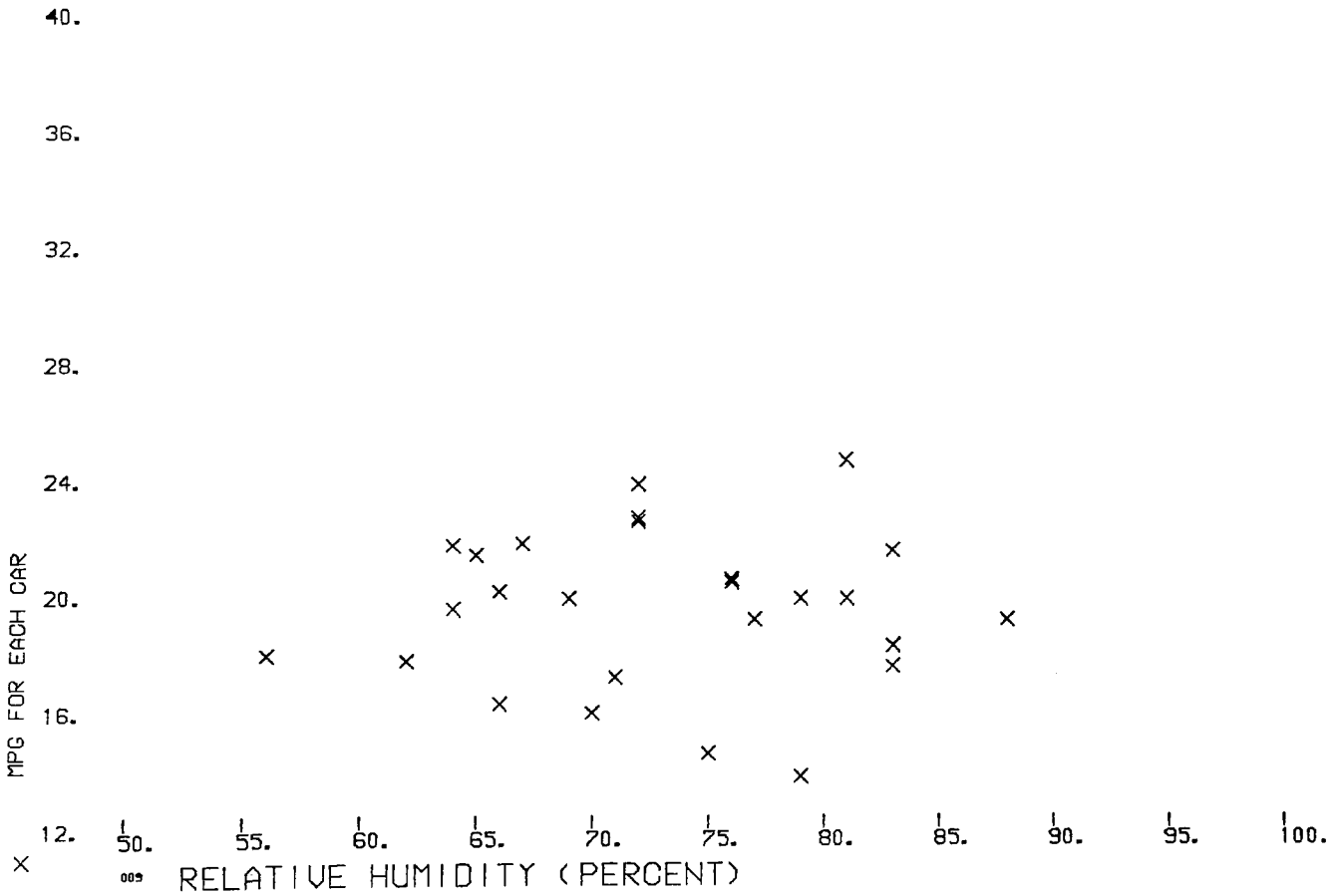
MPG VERSUS RELATIVE HUMIDITY

CLASS 13000313

DATE 062476

CORRELATION COEFFICIENT = .0158

95 PERCENT CONFIDENCE INTERVAL = (-.3738, .4007)



GM FUEL ECONOMY STUDY

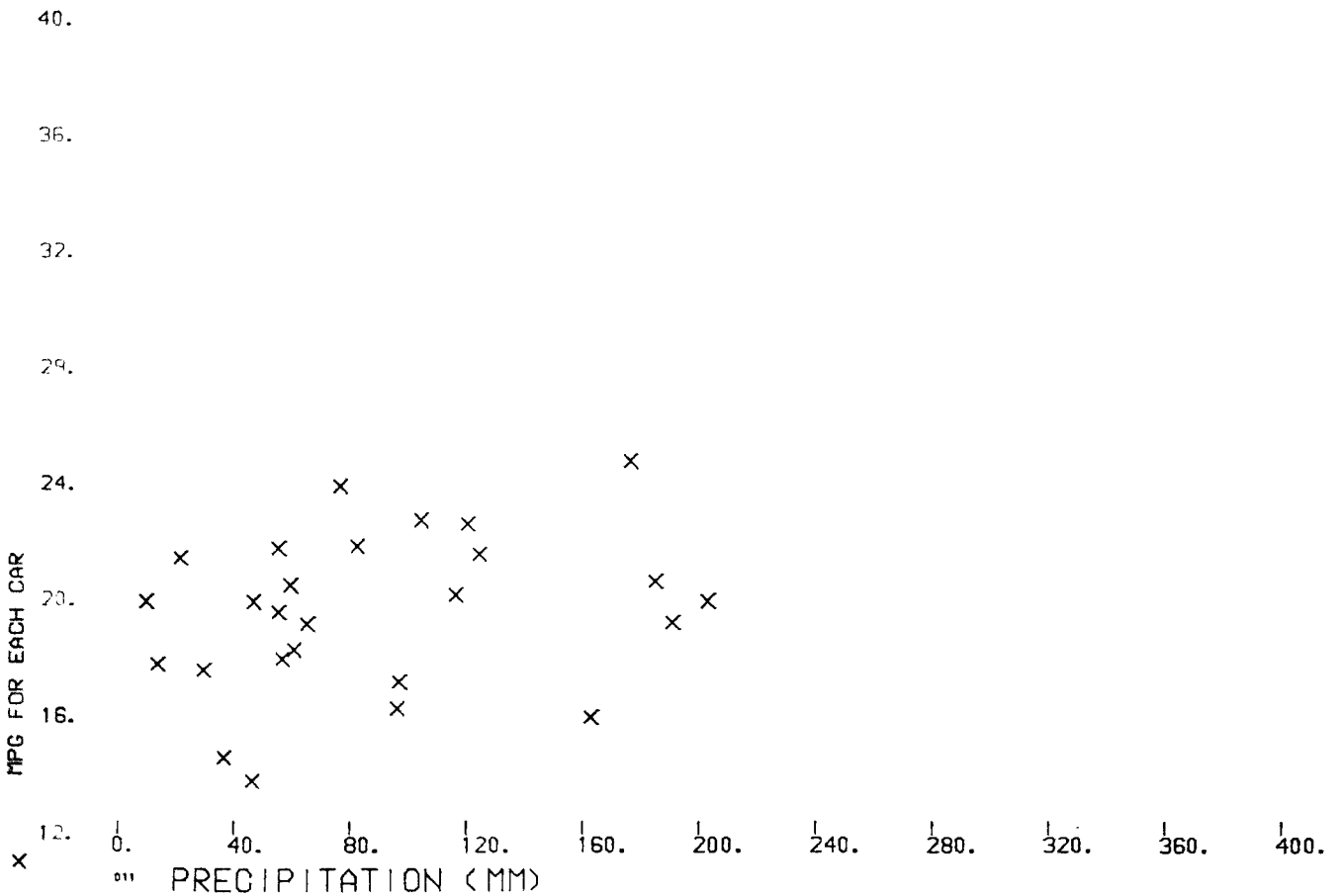
MPG VERSUS PRECIPITATION

CLASS 13000313

DATE 062476

CORRELATION COEFFICIENT = .2556

95 PERCENT CONFIDENCE INTERVAL = (-.1463, .5850)



GM FUEL ECONOMY STUDY

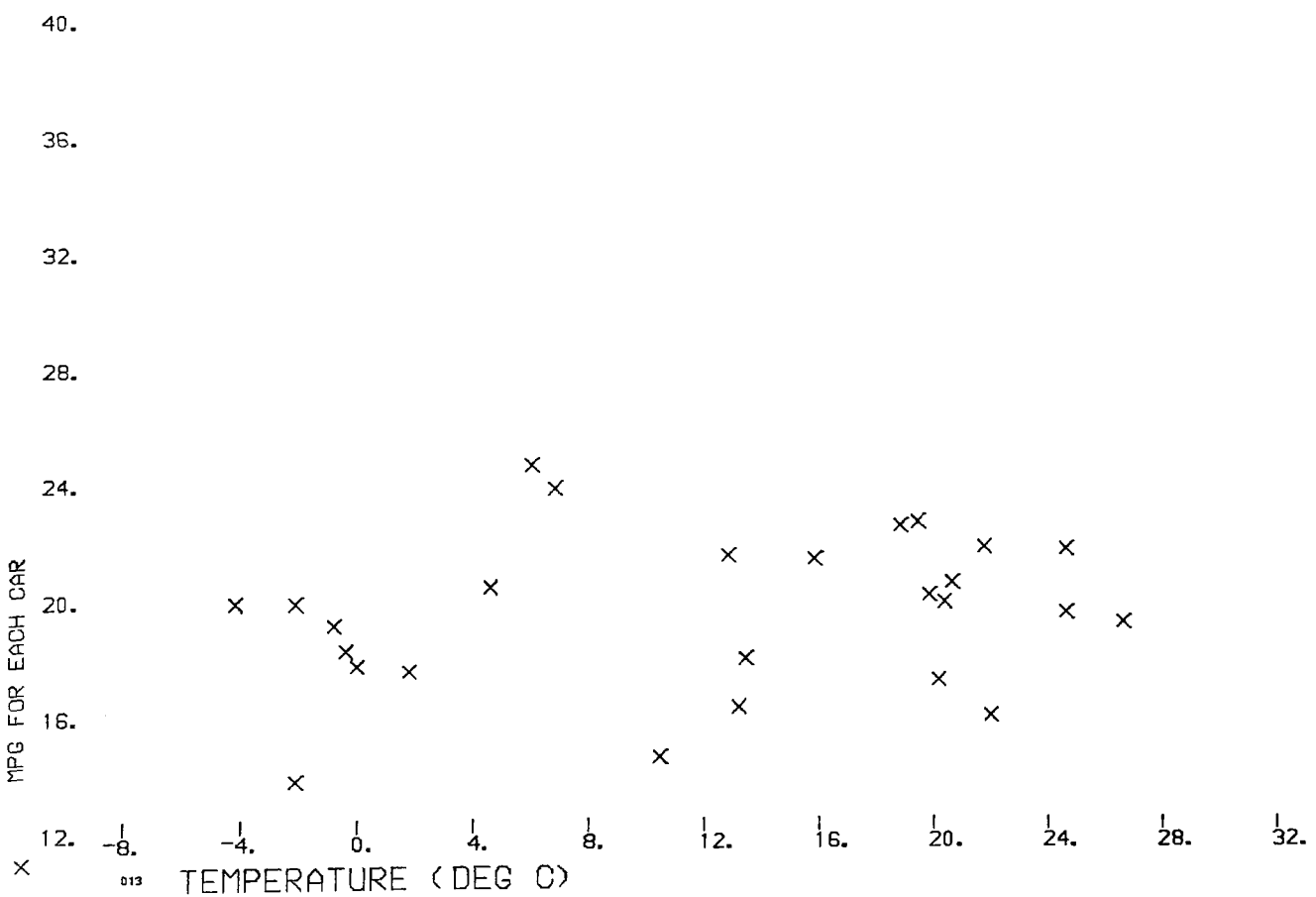
MPG VERSUS TEMPERATURE

CLASS 13000313

DATE 062476

CORRELATION COEFFICIENT = .1998

95 PERCENT CONFIDENCE INTERVAL = (-.2033, .5450)



GM FUEL ECONOMY STUDY

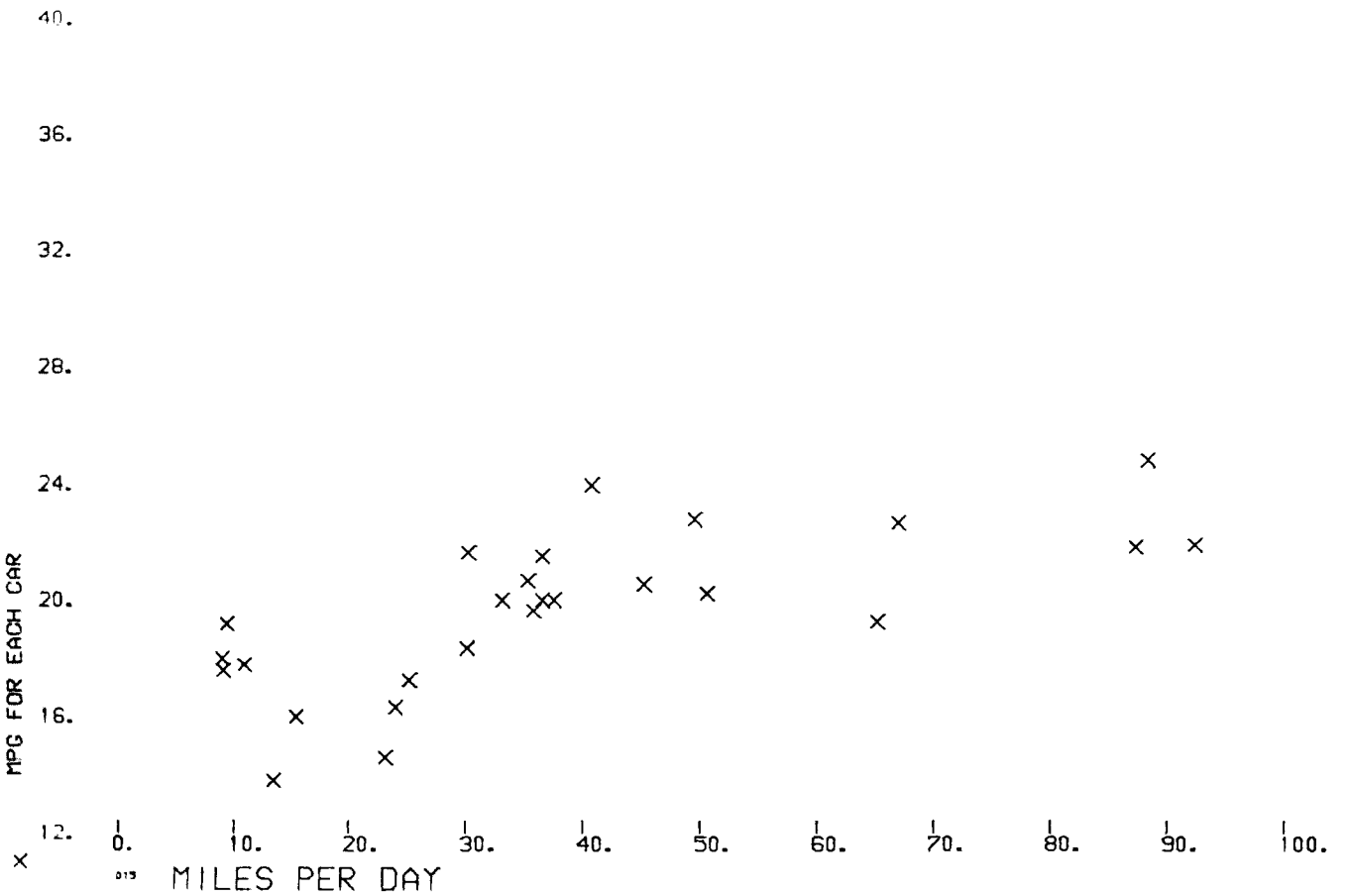
MPG VERSUS MILES PER DAY

CLASS 13000313

DATE 062476

CORRELATION COEFFICIENT = .6972

95 PERCENT CONFIDENCE INTERVAL = (.4245, .8540)



GM FUEL ECONOMY STUDY

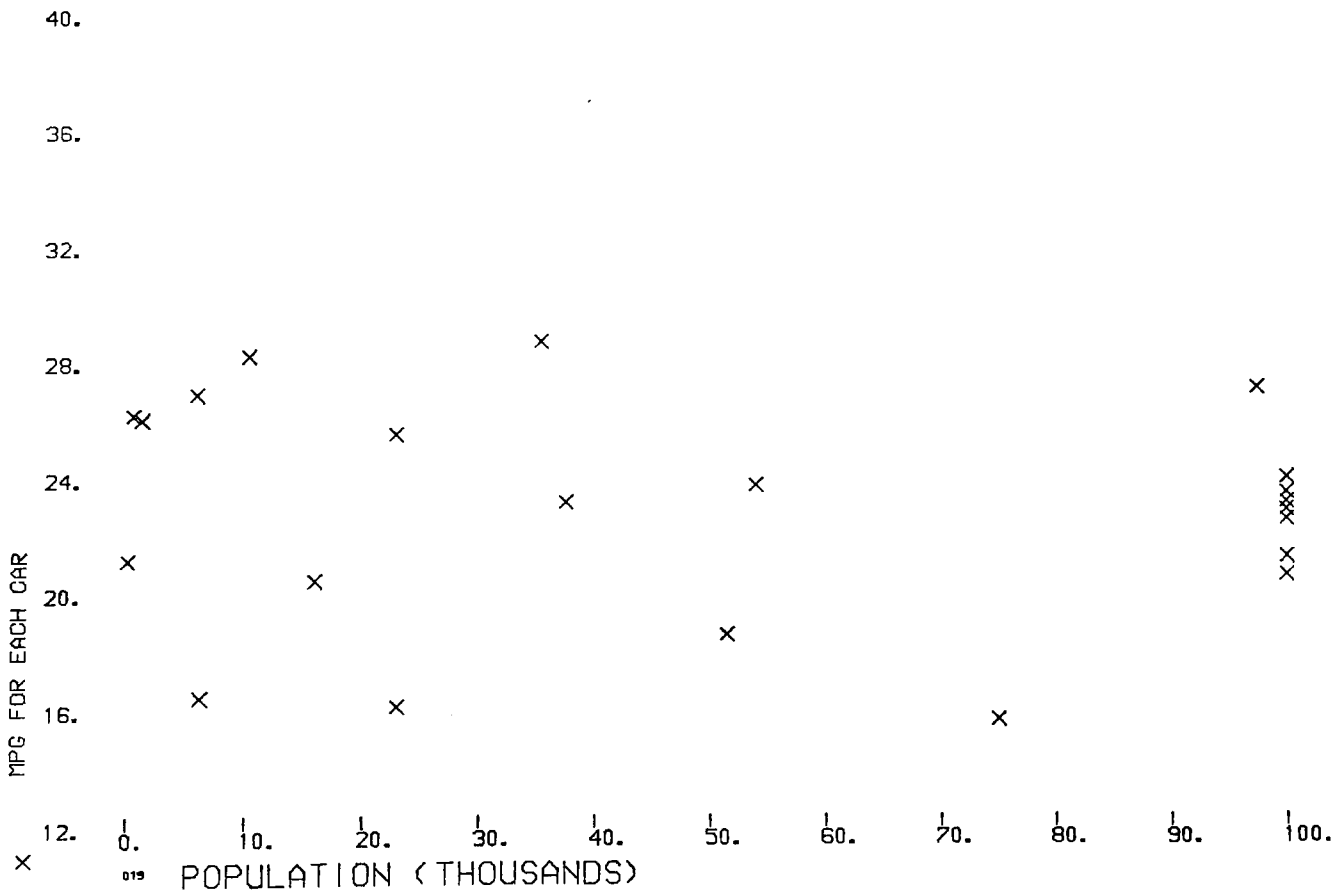
MPG VERSUS POPULATION

CLASS 13000323

DATE 062476

CORRELATION COEFFICIENT =-.1017

95 PERCENT CONFIDENCE INTERVAL = (-.5018, .3343)



GM FUEL ECONOMY STUDY

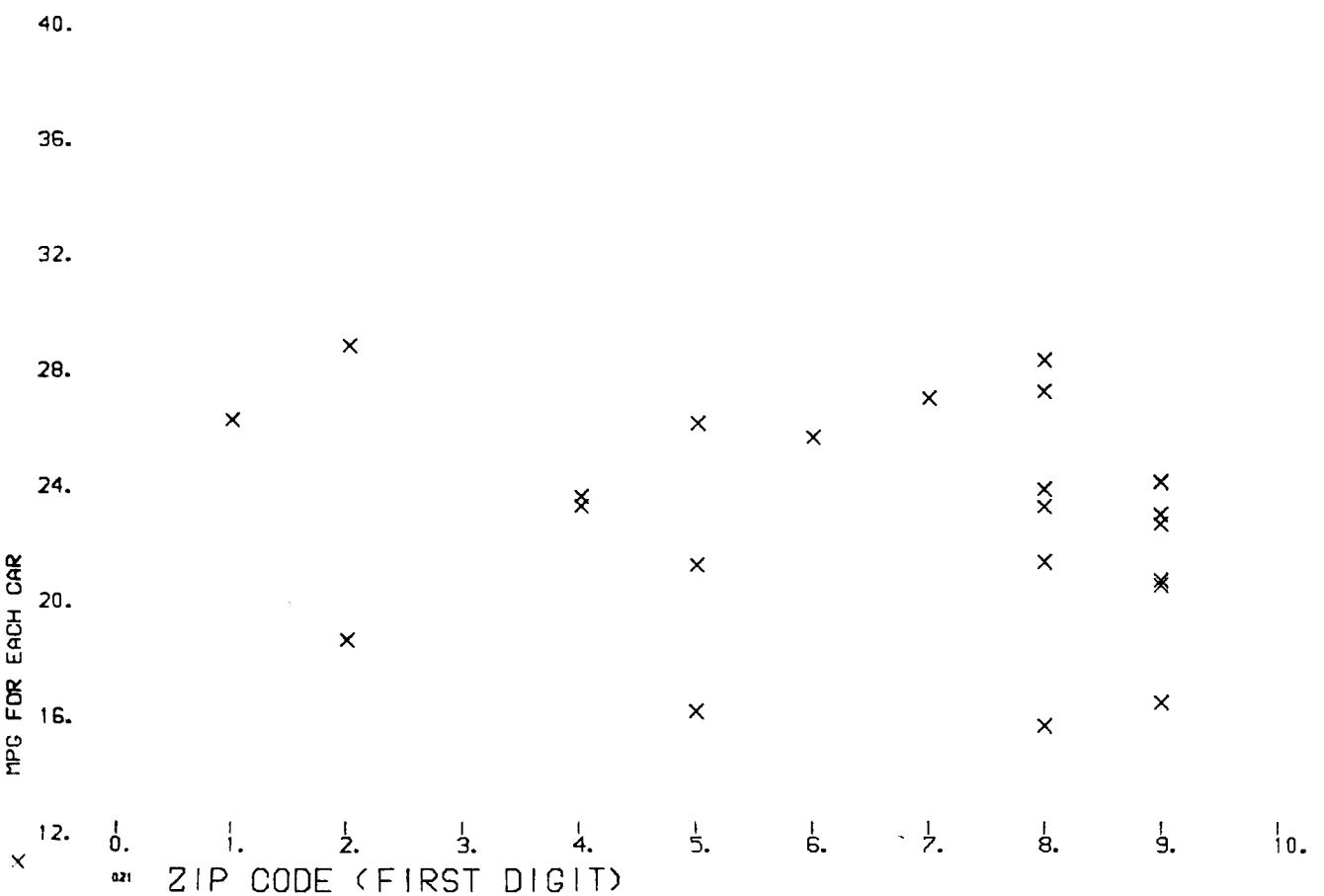
MPG VERSUS ZIP CODE

CLASS 13000323

DATE 062476

CORRELATION COEFFICIENT =-.2015

95 PERCENT CONFIDENCE INTERVAL = (-.5743, .2405)



GM FUEL ECONOMY STUDY

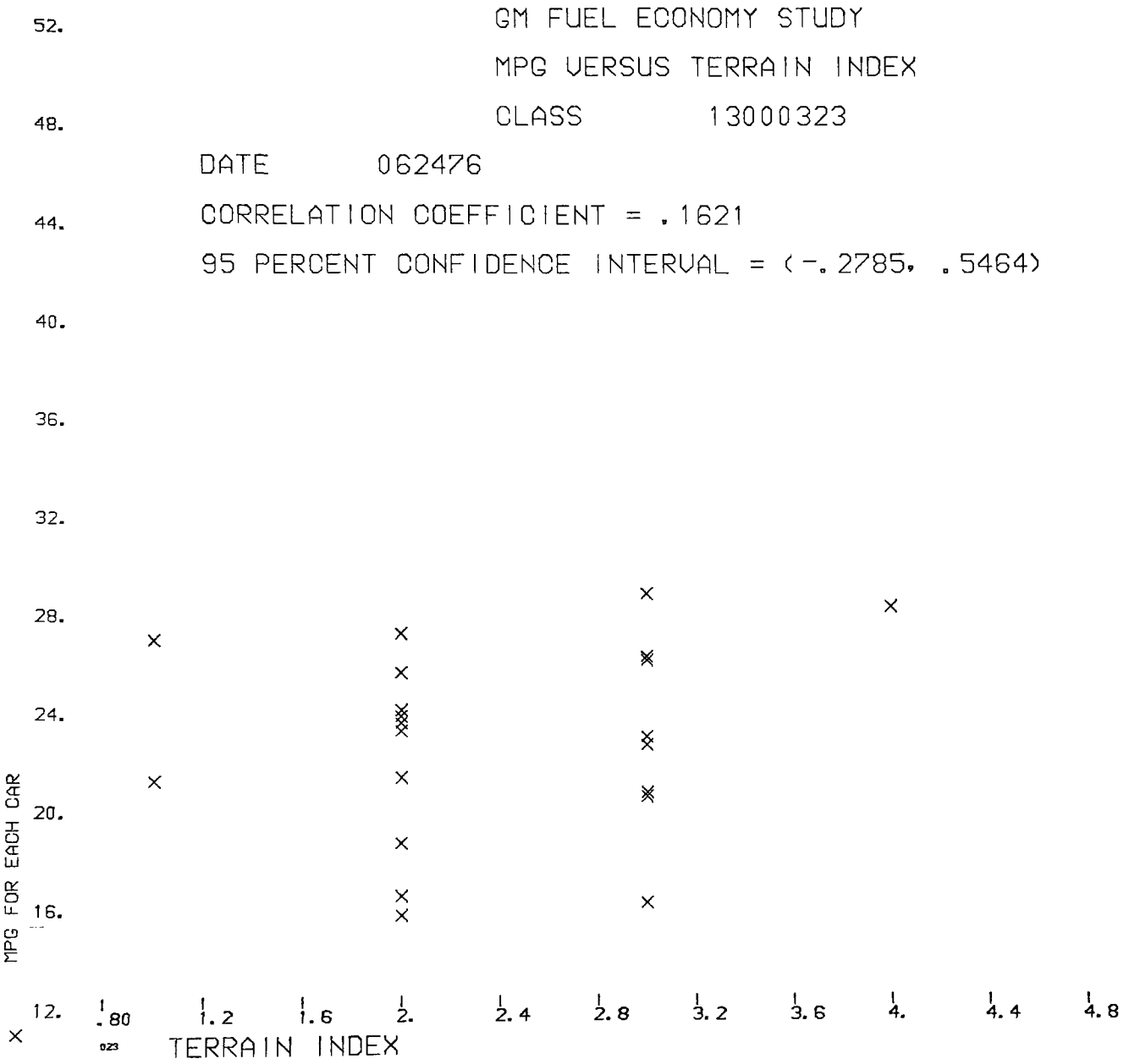
MPG VERSUS TERRAIN INDEX

CLASS 13000323

DATE 062476

CORRELATION COEFFICIENT = .1621

95 PERCENT CONFIDENCE INTERVAL = (-.2785, .5464)



GM FUEL ECONOMY STUDY

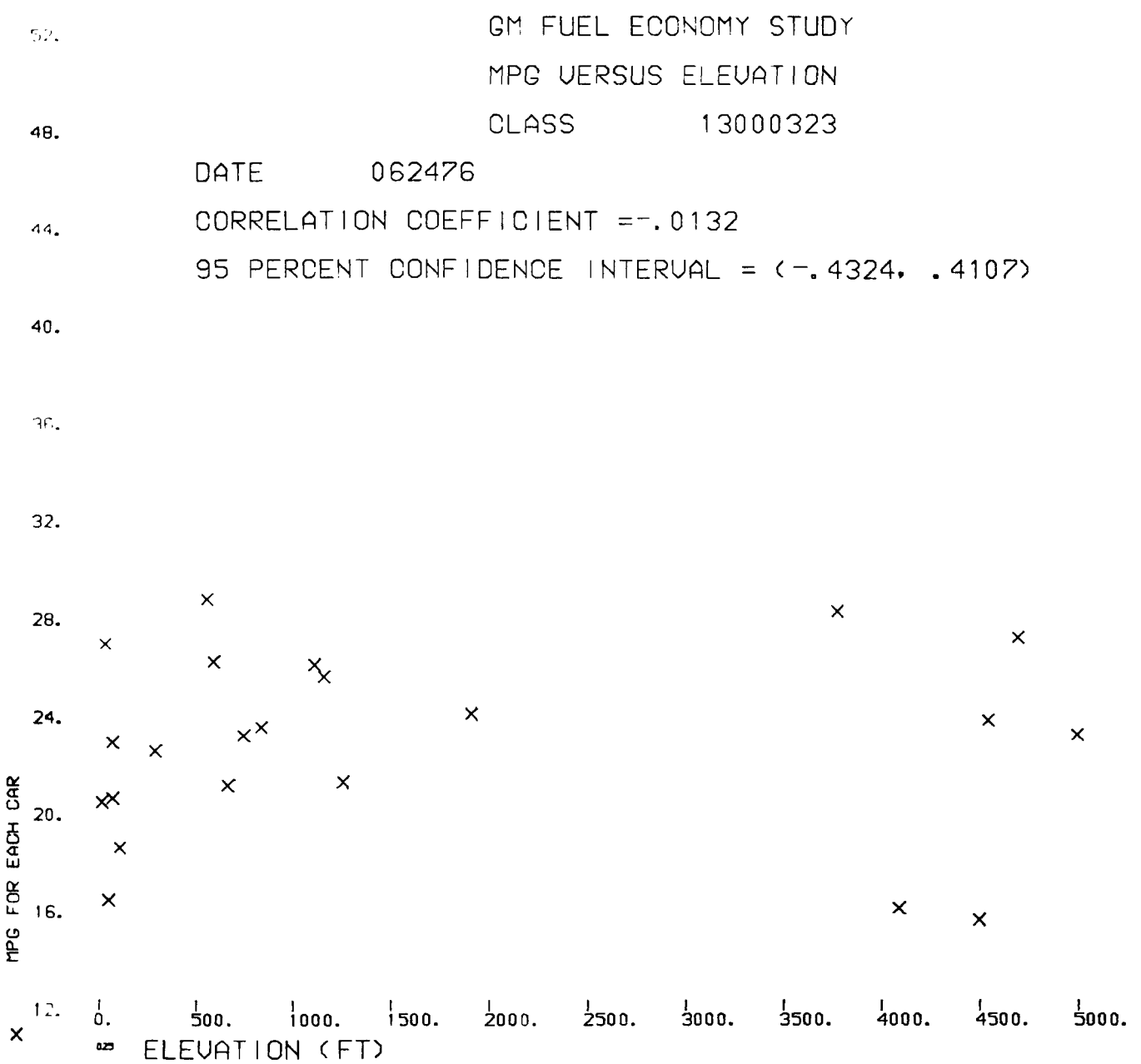
MPG VERSUS ELEVATION

CLASS 13000323

DATE 062476

CORRELATION COEFFICIENT =-.0132

95 PERCENT CONFIDENCE INTERVAL = (-.4324, .4107)



GM FUEL ECONOMY STUDY

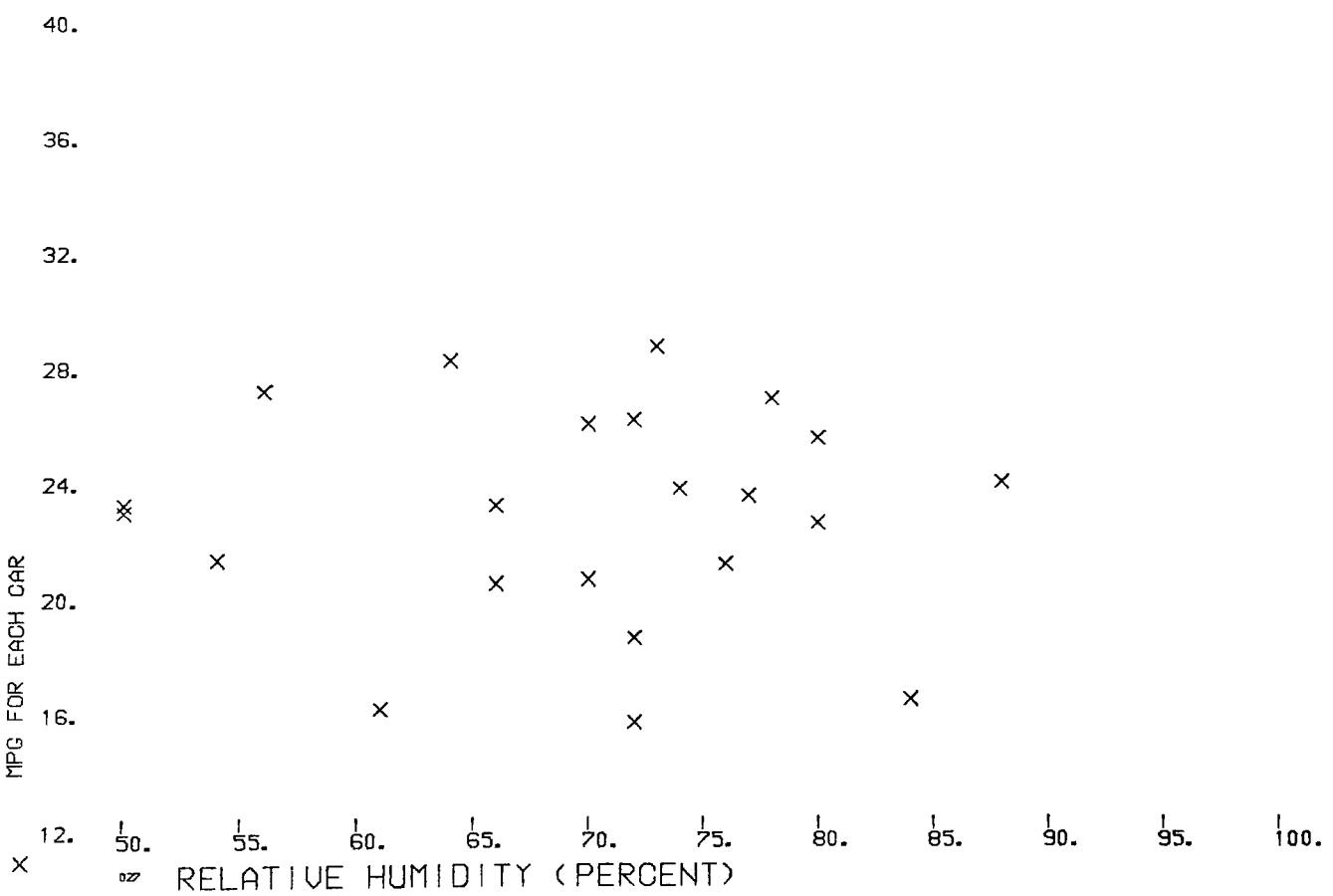
MPG VERSUS RELATIVE HUMIDITY

CLASS 13000323

DATE 062476

CORRELATION COEFFICIENT =-.0156

95 PERCENT CONFIDENCE INTERVAL = (-.4343, .4087)



GM FUEL ECONOMY STUDY

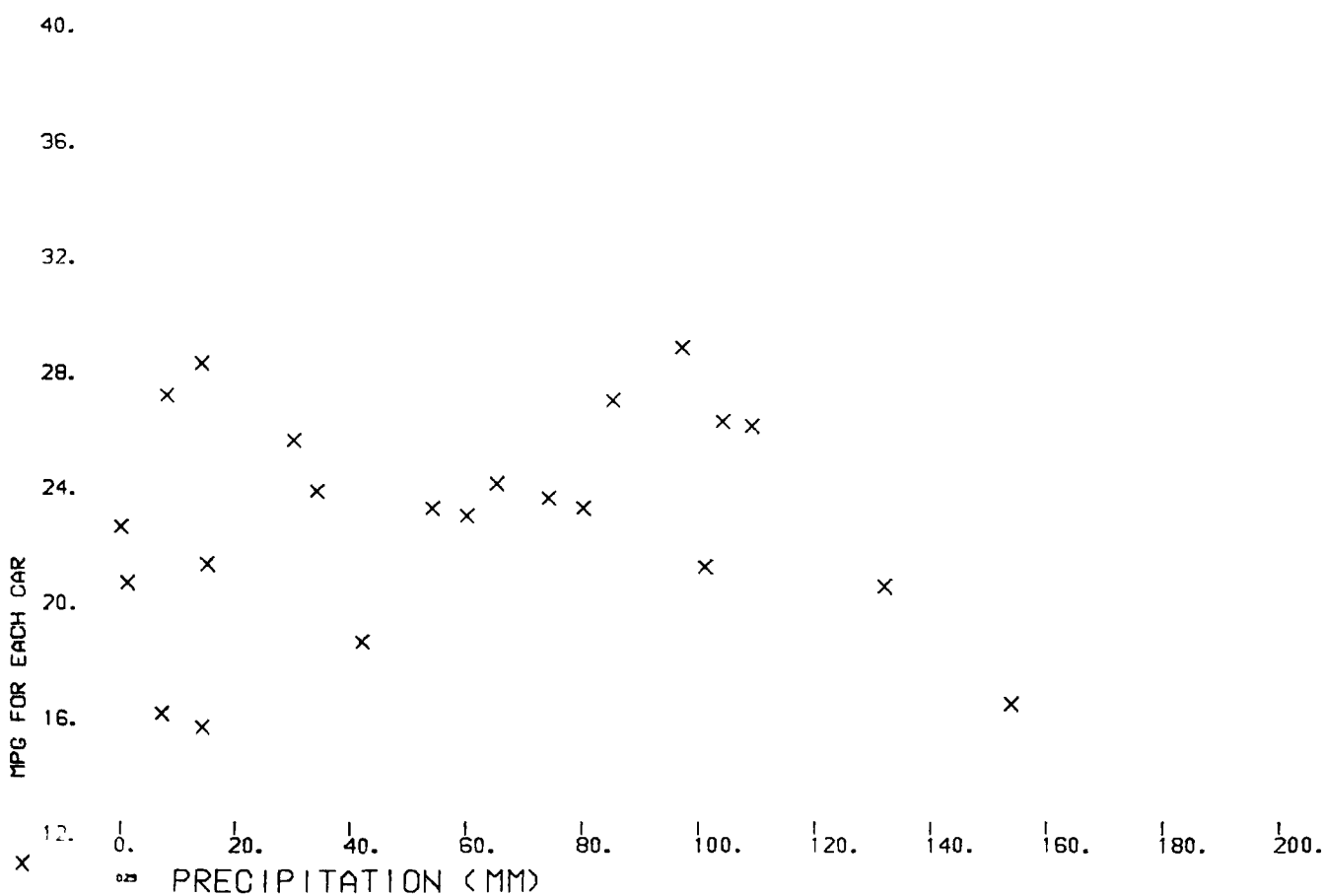
MPG VERSUS PRECIPITATION

CLASS 13000323

DATE 062476

CORRELATION COEFFICIENT = .0569

95 PERCENT CONFIDENCE INTERVAL = (-.3736, .4673)



GM FUEL ECONOMY STUDY

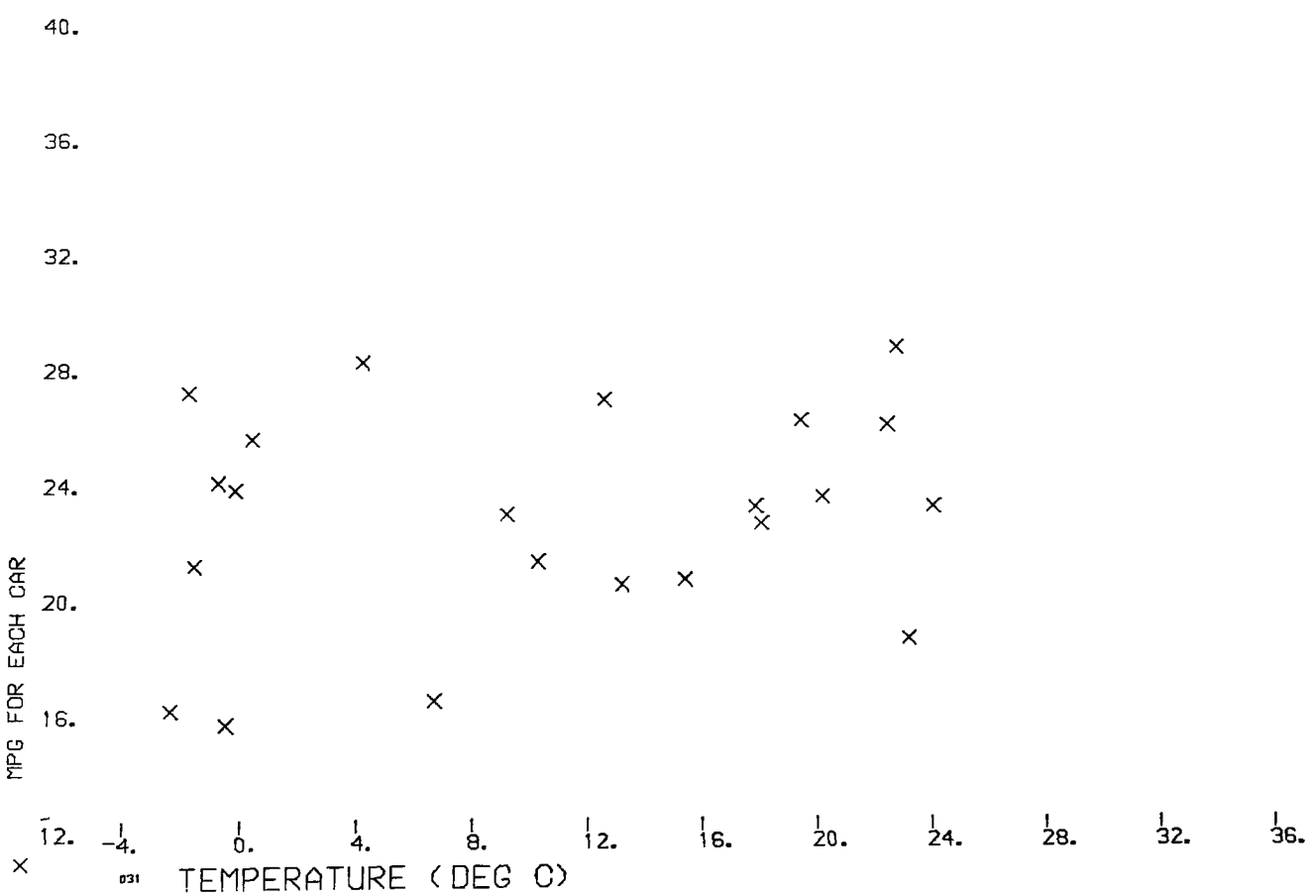
MPG VERSUS TEMPERATURE

CLASS 13000323

DATE 062476

CORRELATION COEFFICIENT = .2139

95 PERCENT CONFIDENCE INTERVAL = (-.2283, .5829)



GM FUEL ECONOMY STUDY

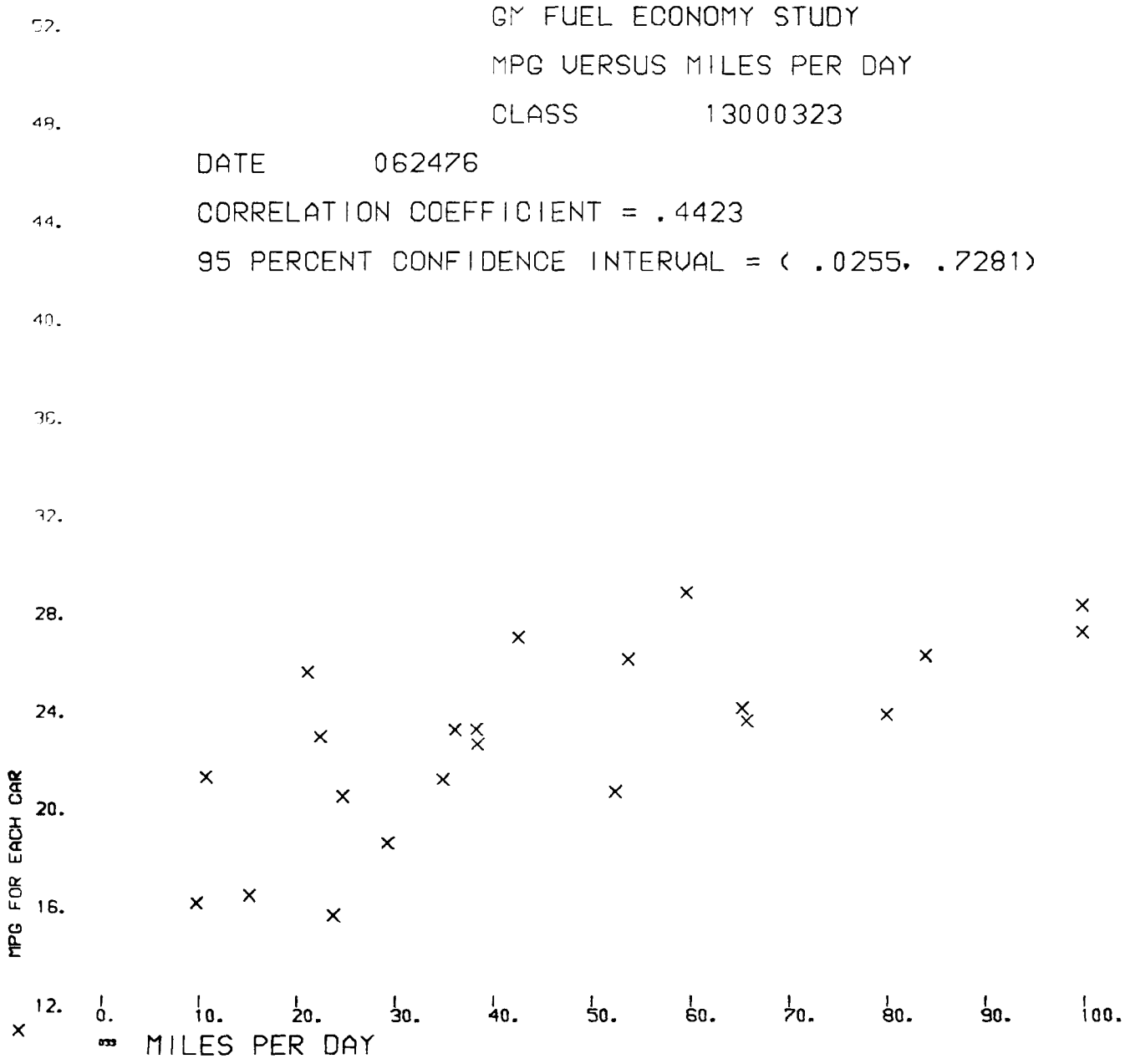
MPG VERSUS MILES PER DAY

CLASS 13000323

DATE 062476

CORRELATION COEFFICIENT = .4423

95 PERCENT CONFIDENCE INTERVAL = (.0255, .7281)



GM FUEL ECONOMY STUDY

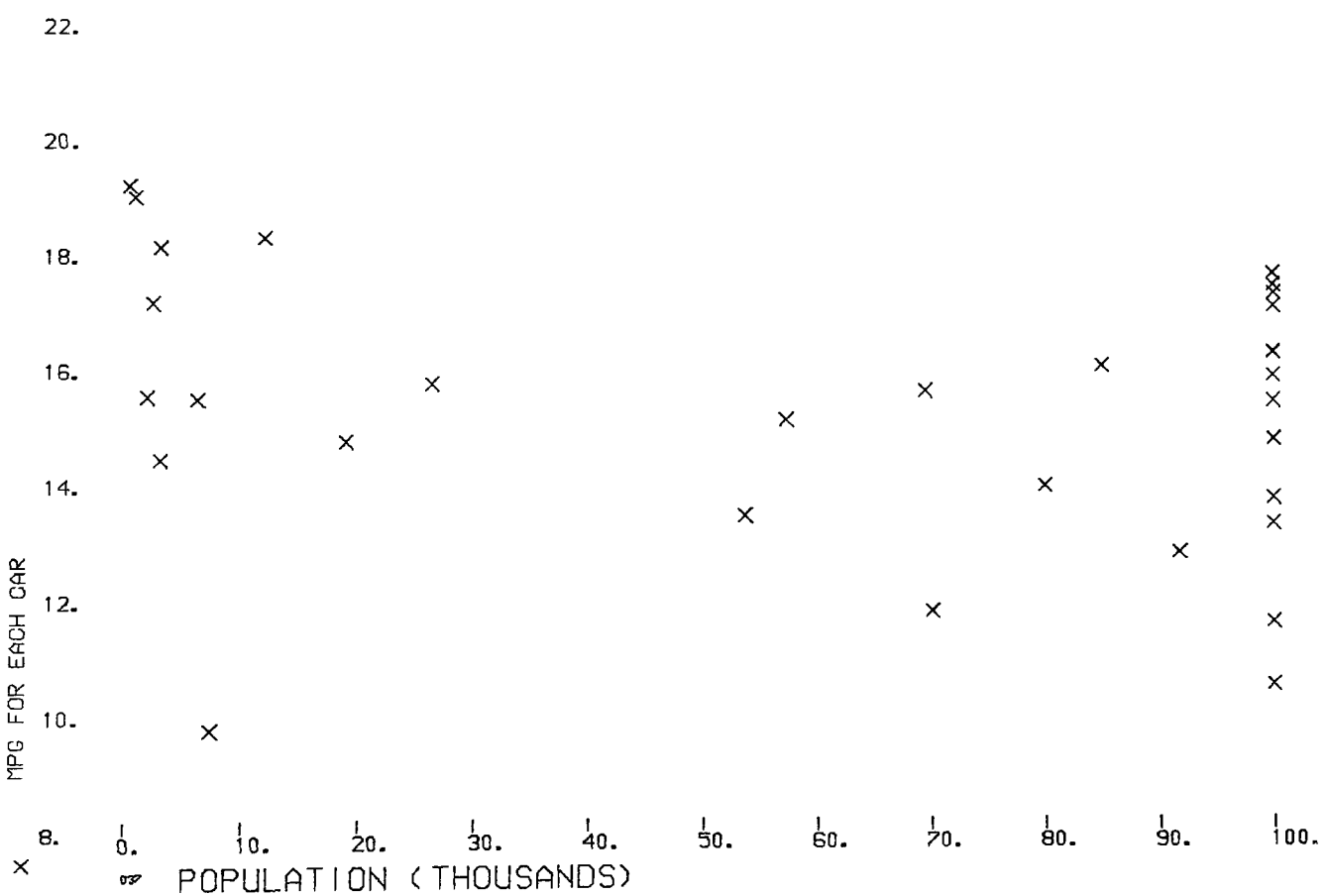
MPG VERSUS POPULATION

CLASS 14000612

DATE 062476

CORRELATION COEFFICIENT =-.1365

95 PERCENT CONFIDENCE INTERVAL = (-.4631, .2228)



GM FUEL ECONOMY STUDY

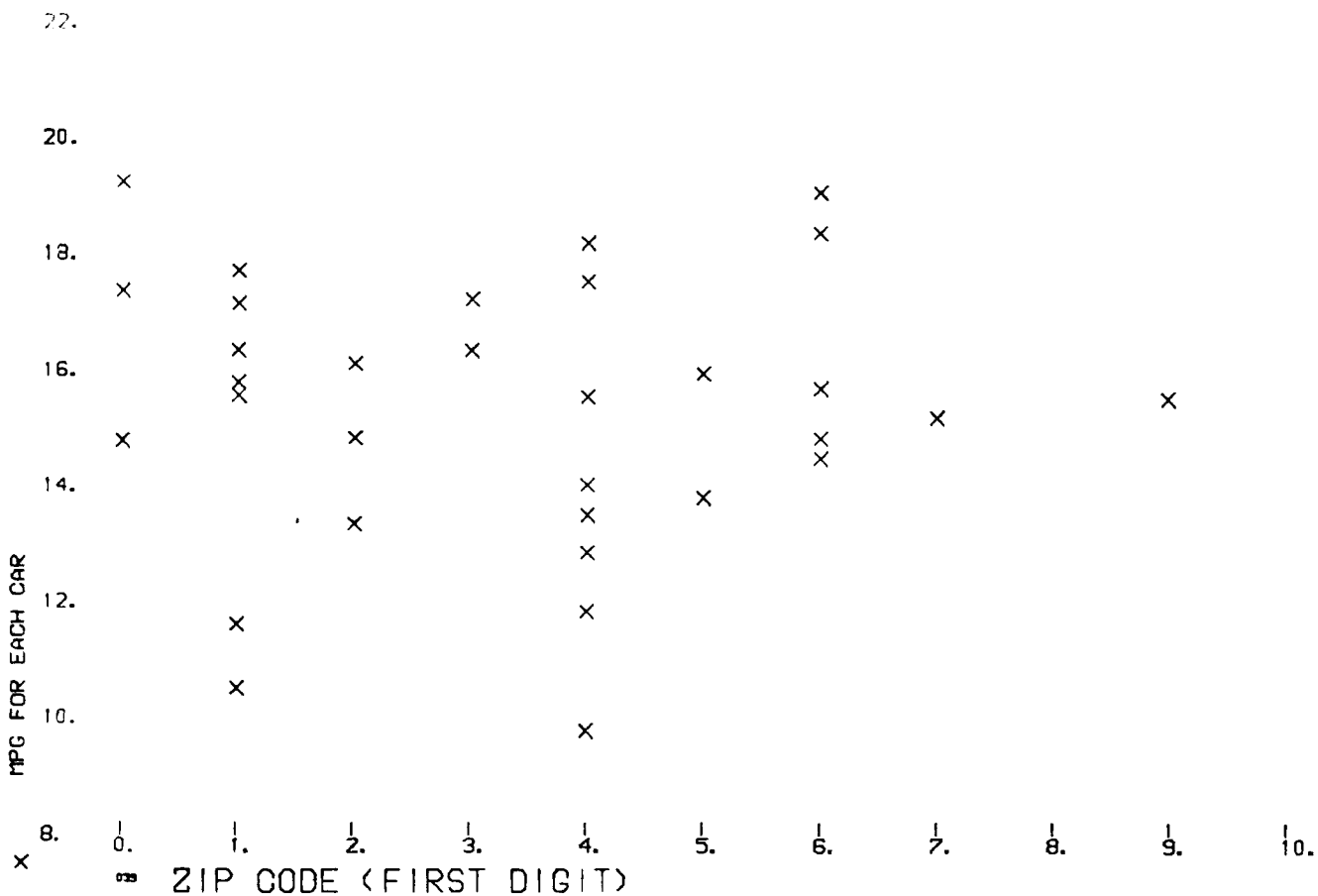
MPG VERSUS ZIP CODE

CLASS 14000612

DATE 062476

CORRELATION COEFFICIENT =-.0177

95 PERCENT CONFIDENCE INTERVAL = (-.3642, .3330)



GM FUEL ECONOMY STUDY

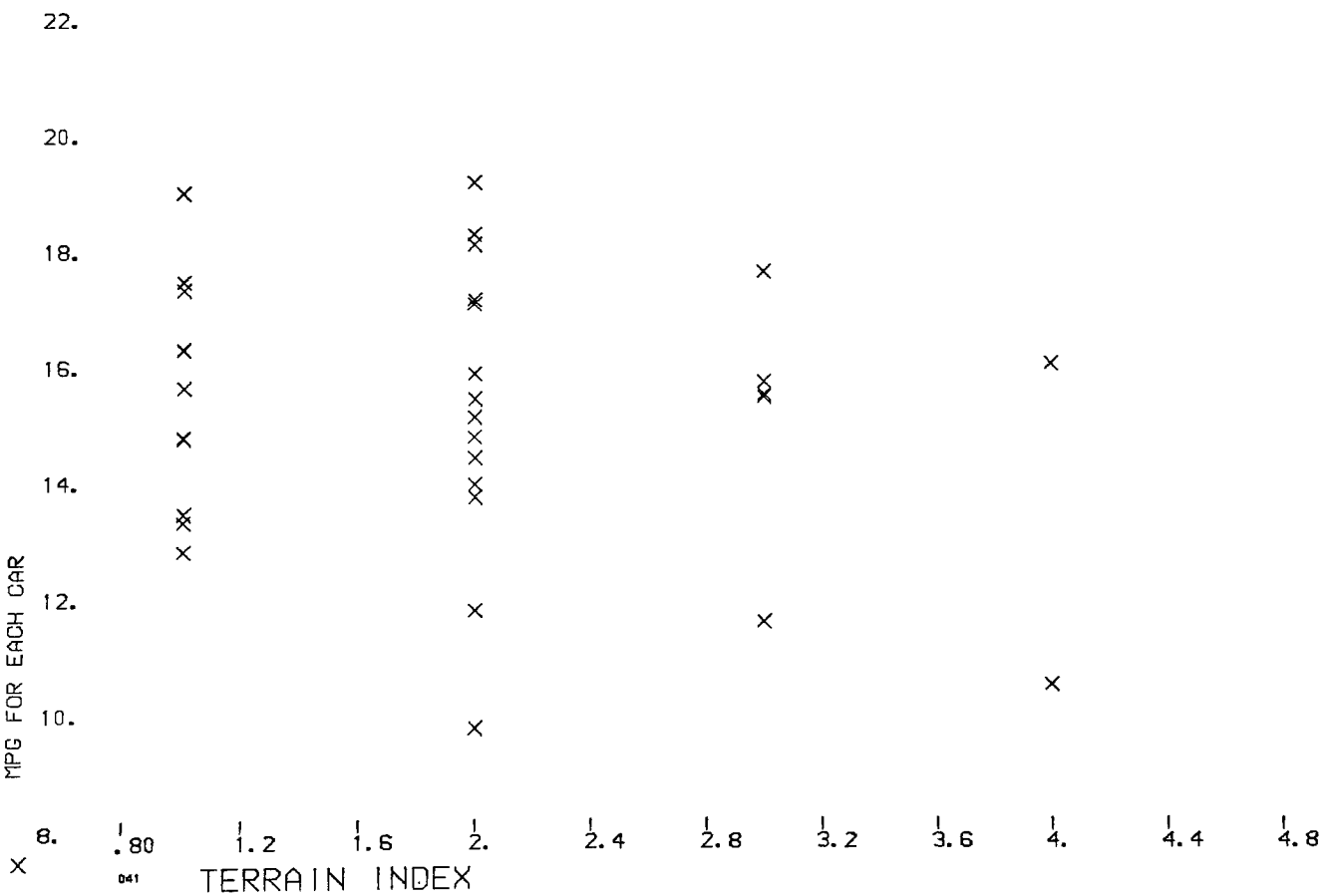
MPG VERSUS TERRAIN INDEX

CLASS 14000612

DATE 062476

CORRELATION COEFFICIENT =-.1804

95 PERCENT CONFIDENCE INTERVAL = (-.4978, .1796)



GM FUEL ECONOMY STUDY

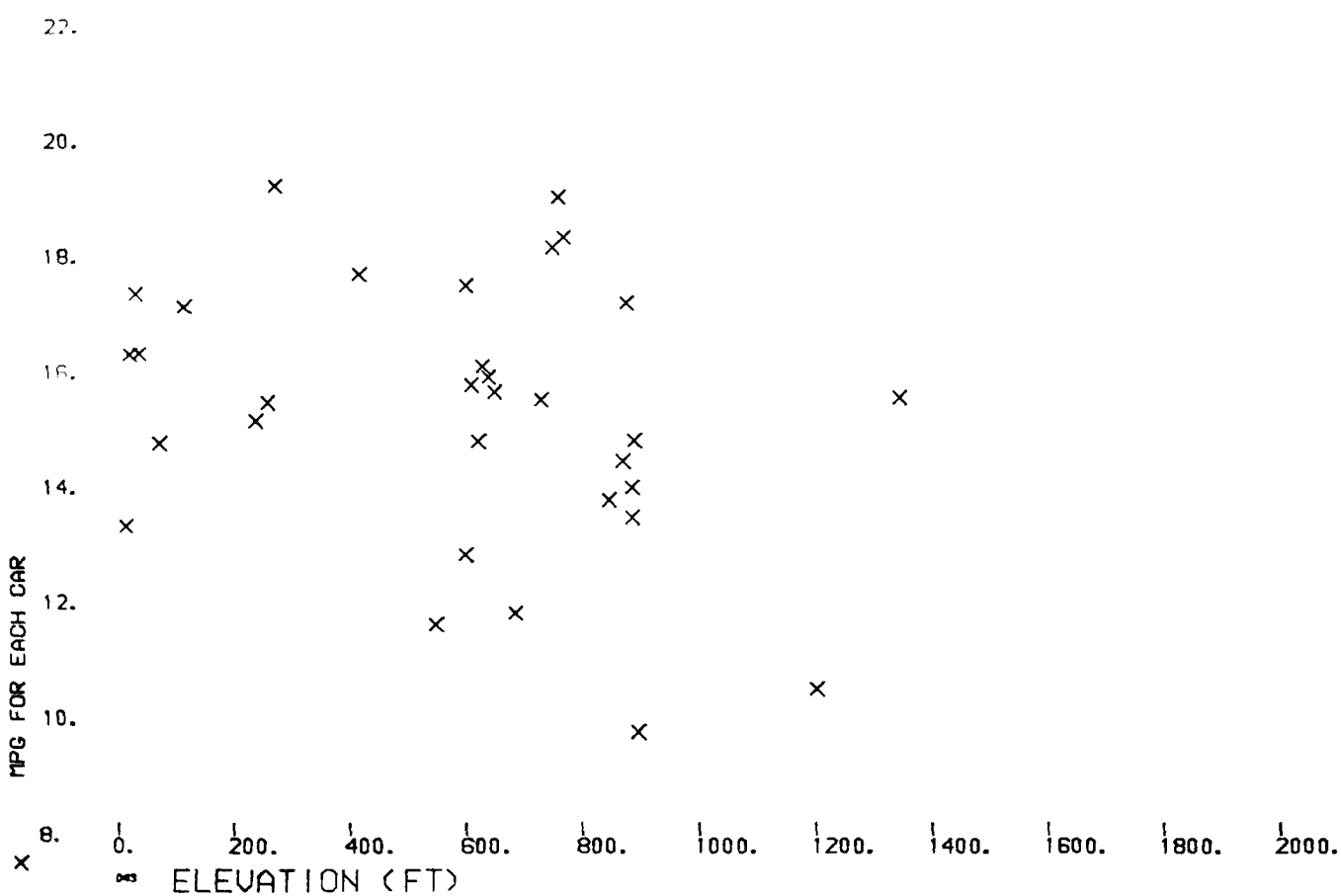
MPG VERSUS ELEVATION

CLASS 14000612

DATE 062476

CORRELATION COEFFICIENT =-.3003

95 PERCENT CONFIDENCE INTERVAL = (-.5875, .0540)



GM FUEL ECONOMY STUDY

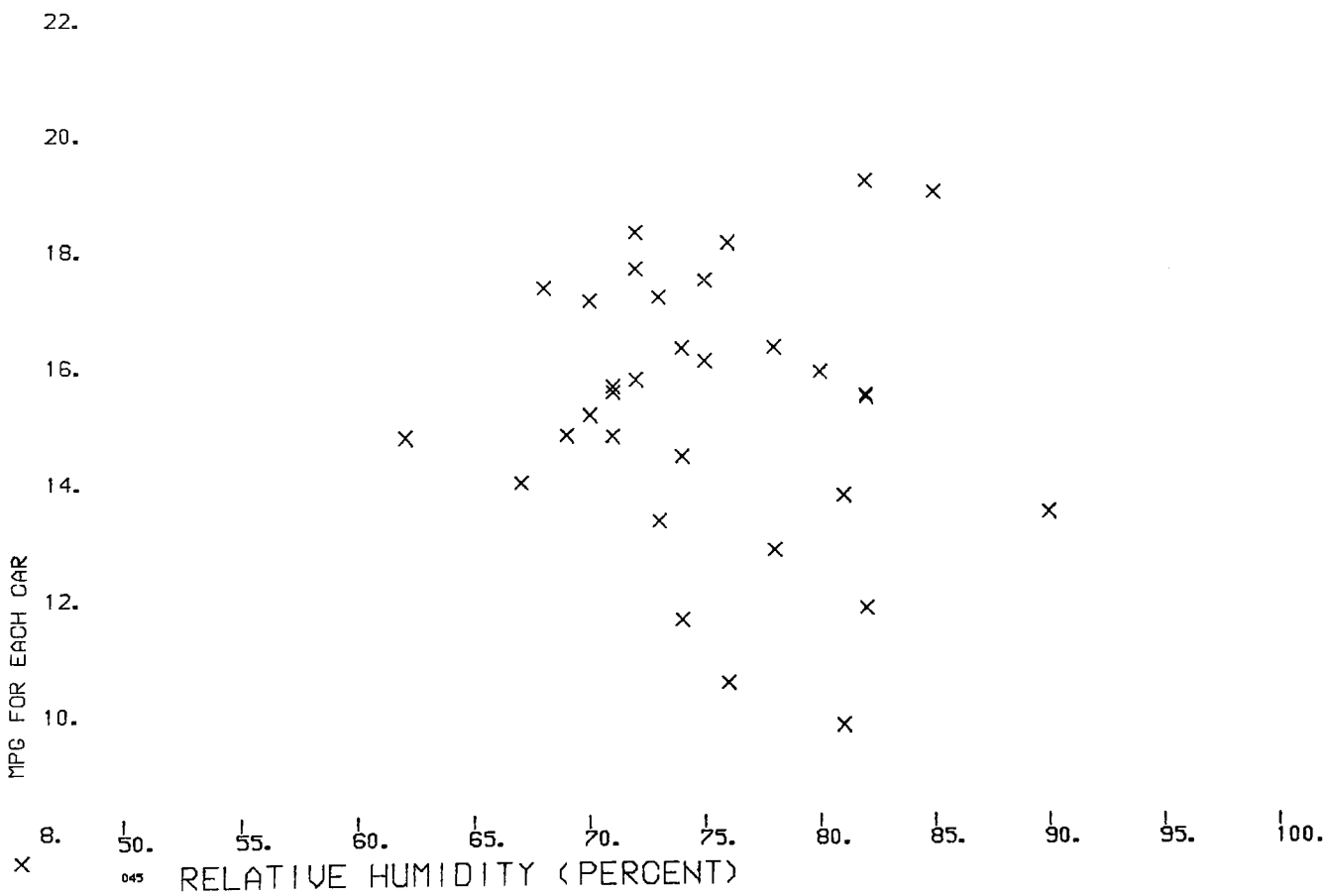
MPG VERSUS RELATIVE HUMIDITY

CLASS 14000612

DATE 062476

CORRELATION COEFFICIENT =-.1078

95 PERCENT CONFIDENCE INTERVAL = (-.4400, .2503)



GM FUEL ECONOMY STUDY

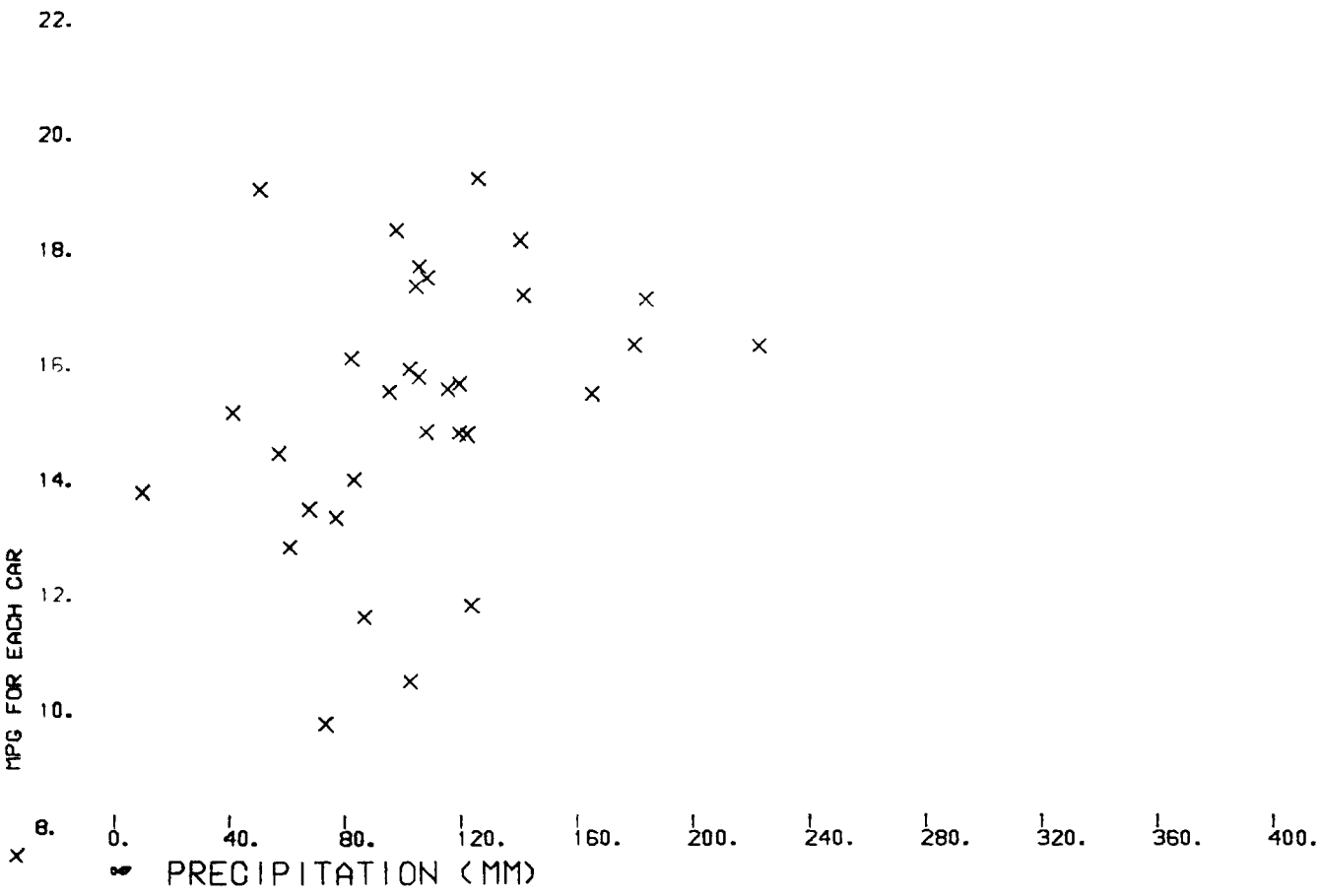
MPG VERSUS PRECIPITATION

CLASS 14000612

DATE 062476

CORRELATION COEFFICIENT = .3098

95 PERCENT CONFIDENCE INTERVAL = (-.0436, .5943)



GM FUEL ECONOMY STUDY

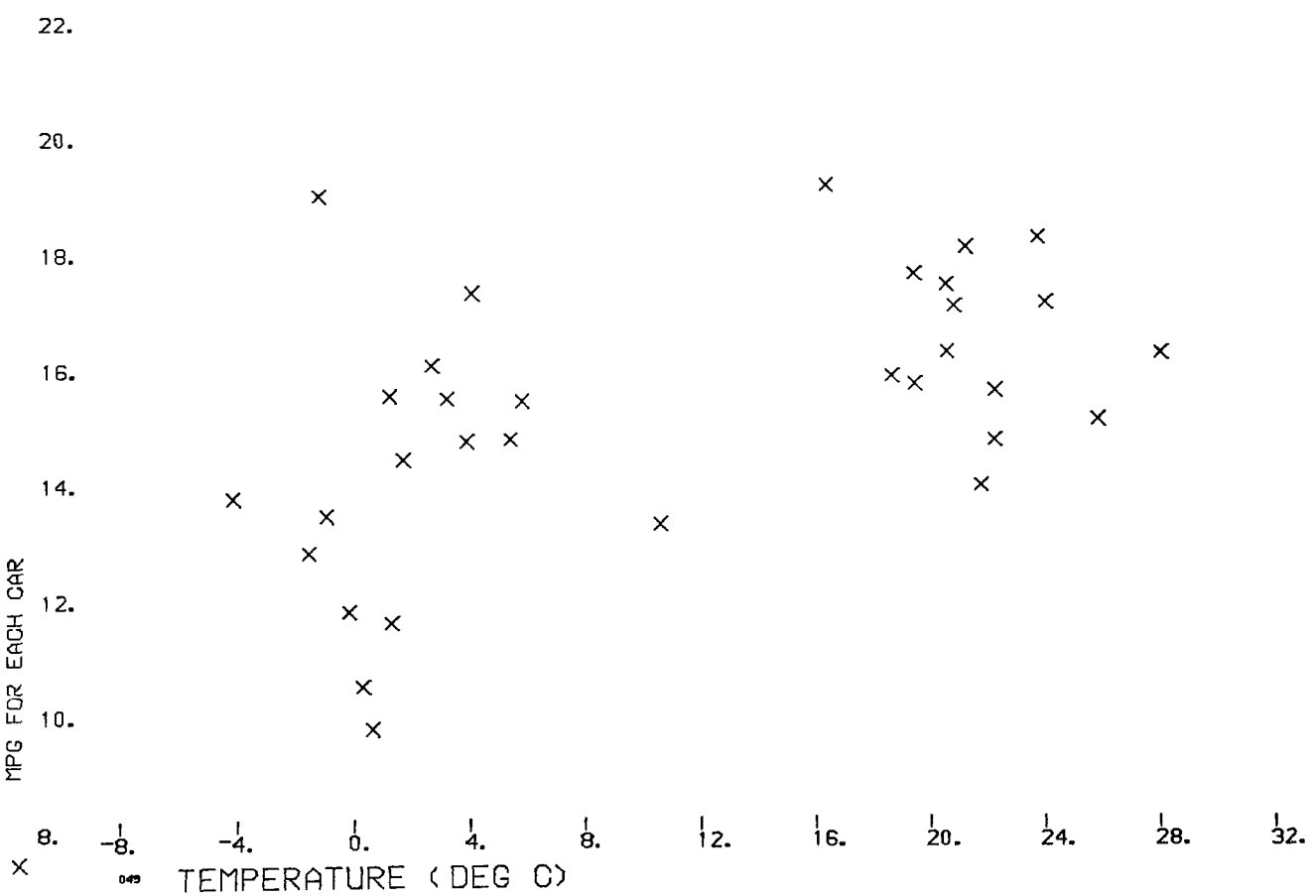
MPG VERSUS TEMPERATURE

CLASS 14000612

DATE 062476

CORRELATION COEFFICIENT = .5174

95 PERCENT CONFIDENCE INTERVAL = (.2058, .7337)



GM FUEL ECONOMY STUDY

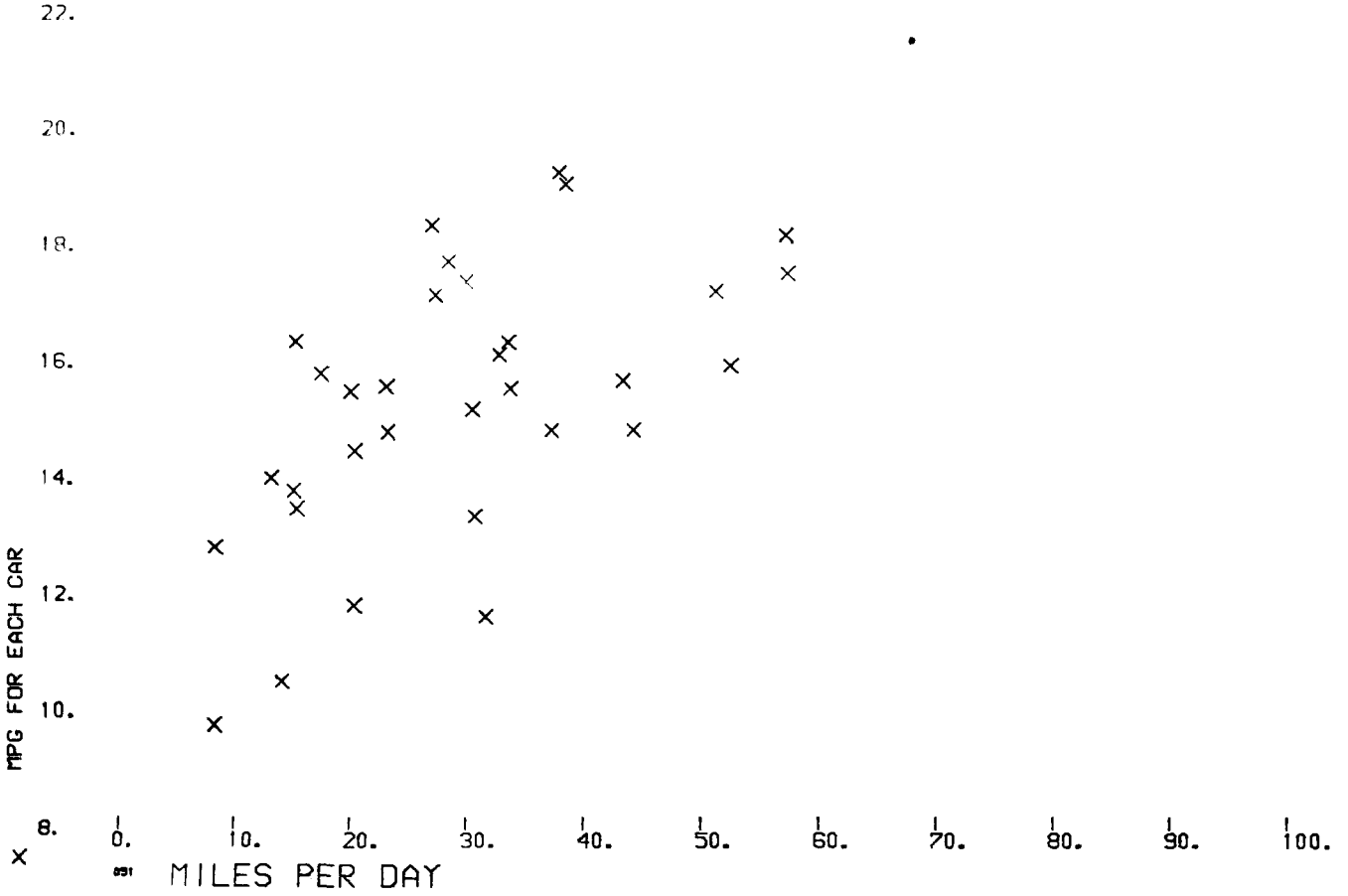
MPG VERSUS MILES PER DAY

CLASS 14000612

DATE 062476

CORRELATION COEFFICIENT = .5737

95 PERCENT CONFIDENCE INTERVAL = (.2813, .7686)



GM FUEL ECONOMY STUDY

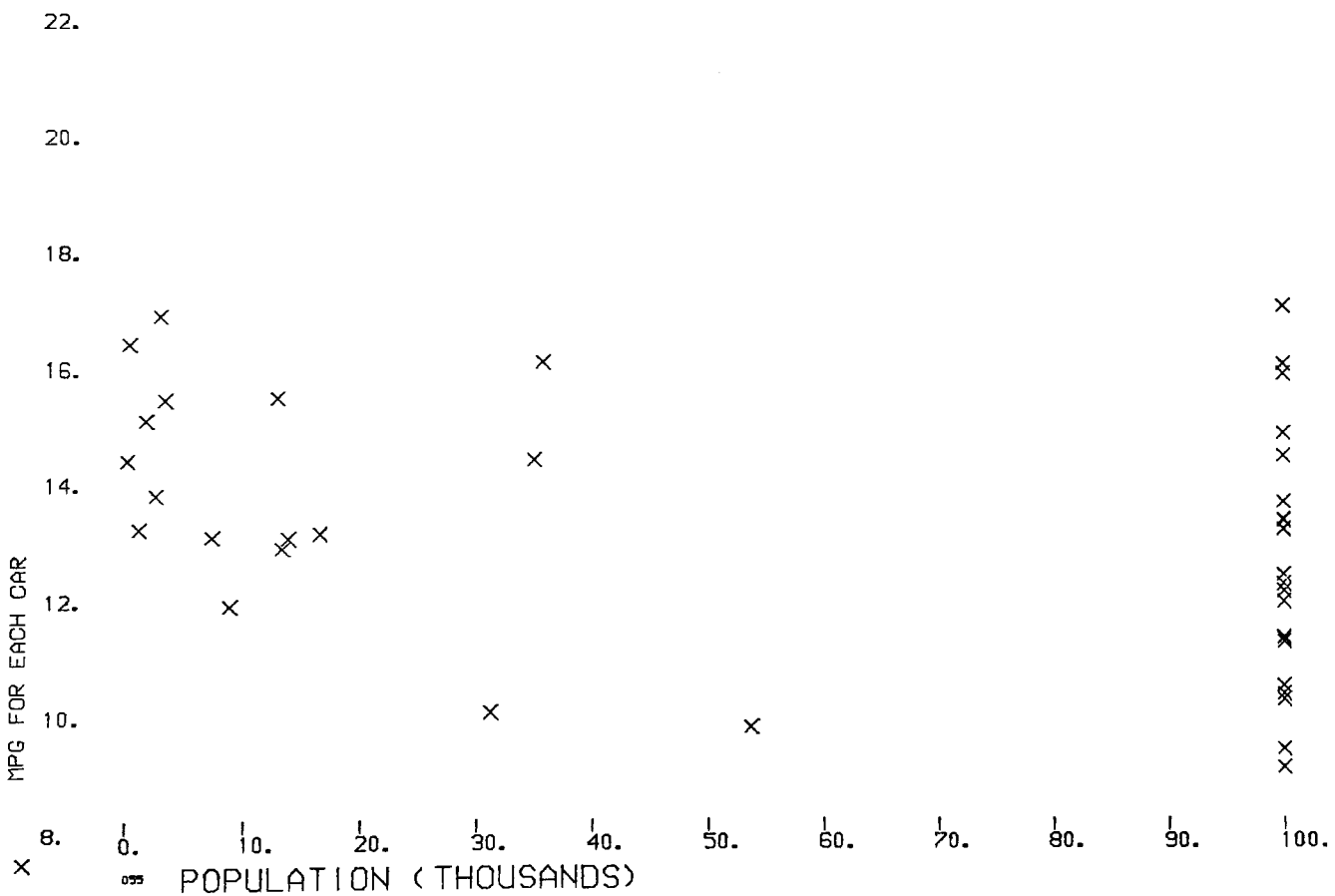
MPG VERSUS POPULATION

CLASS 14000912

DATE 062476

CORRELATION COEFFICIENT =-.2849

95 PERCENT CONFIDENCE INTERVAL = (-.5478, .0292)



GM FUEL ECONOMY STUDY

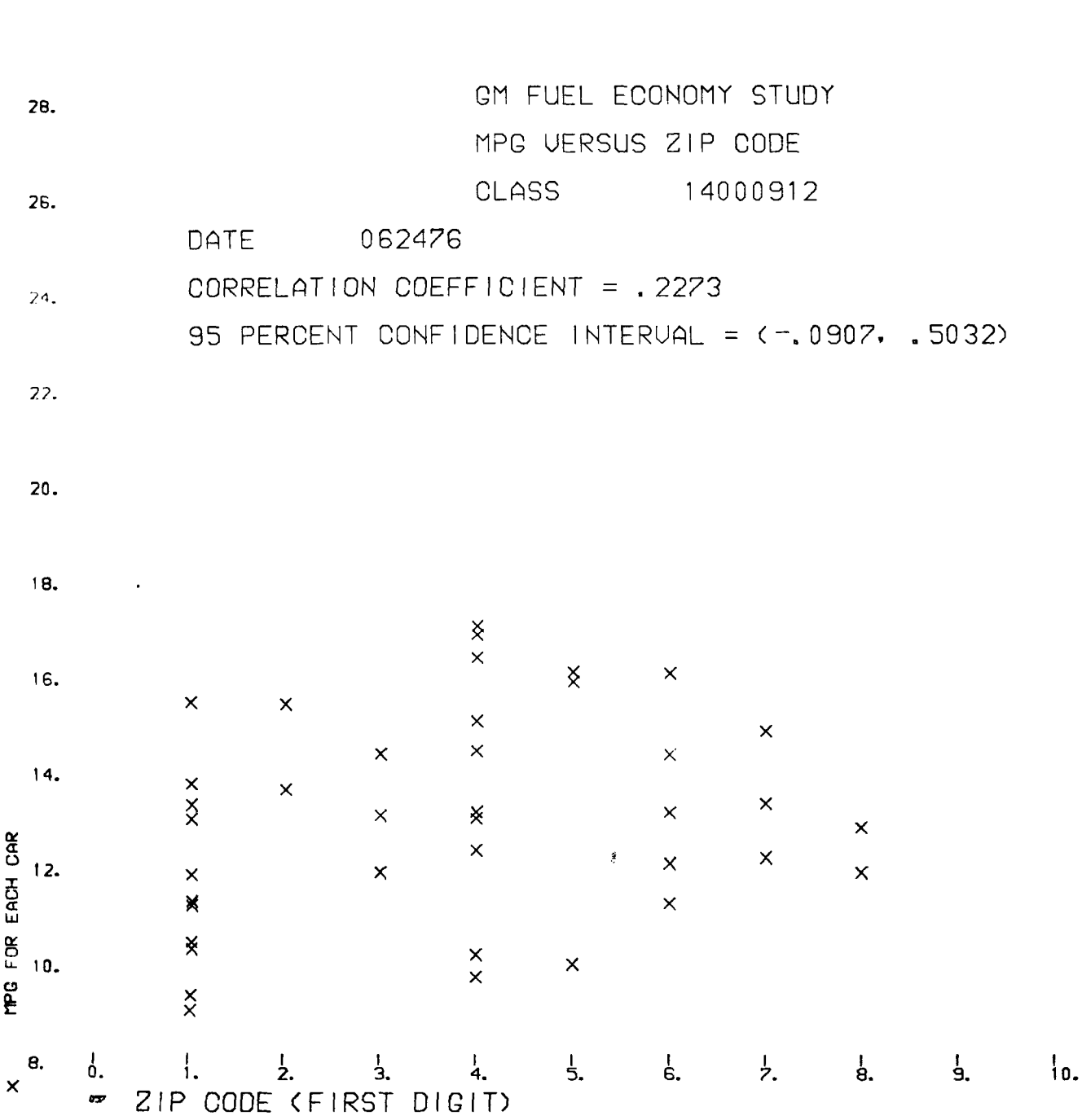
MPG VERSUS ZIP CODE

CLASS 14000912

DATE 062476

CORRELATION COEFFICIENT = .2273

95 PERCENT CONFIDENCE INTERVAL = (-.0907, .5032)



GM FUEL ECONOMY STUDY

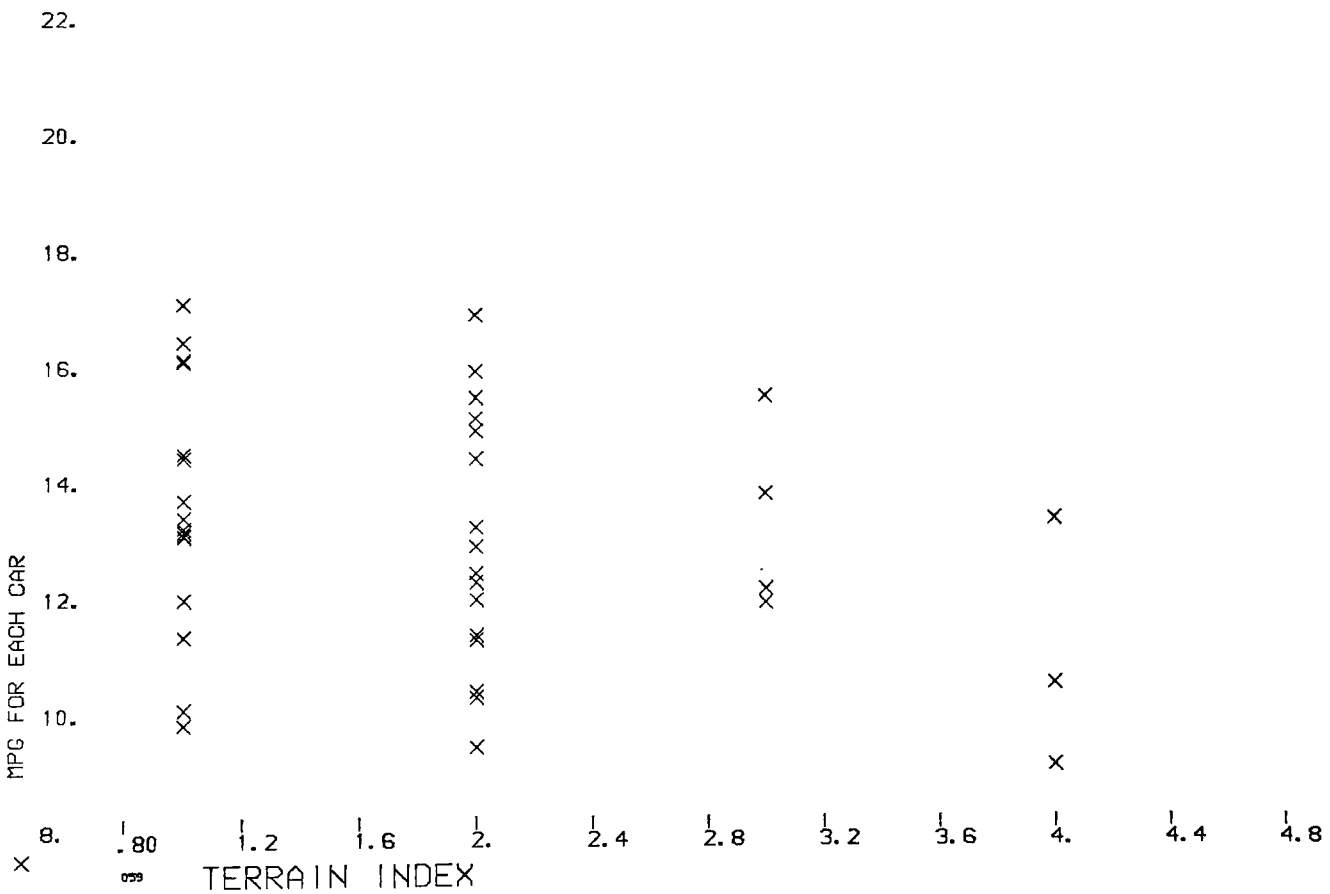
MPG VERSUS TERRAIN INDEX

CLASS 14000912

DATE 062476

CORRELATION COEFFICIENT =-.2580

95 PERCENT CONFIDENCE INTERVAL = (-.5271, .0582)



GM FUEL ECONOMY STUDY

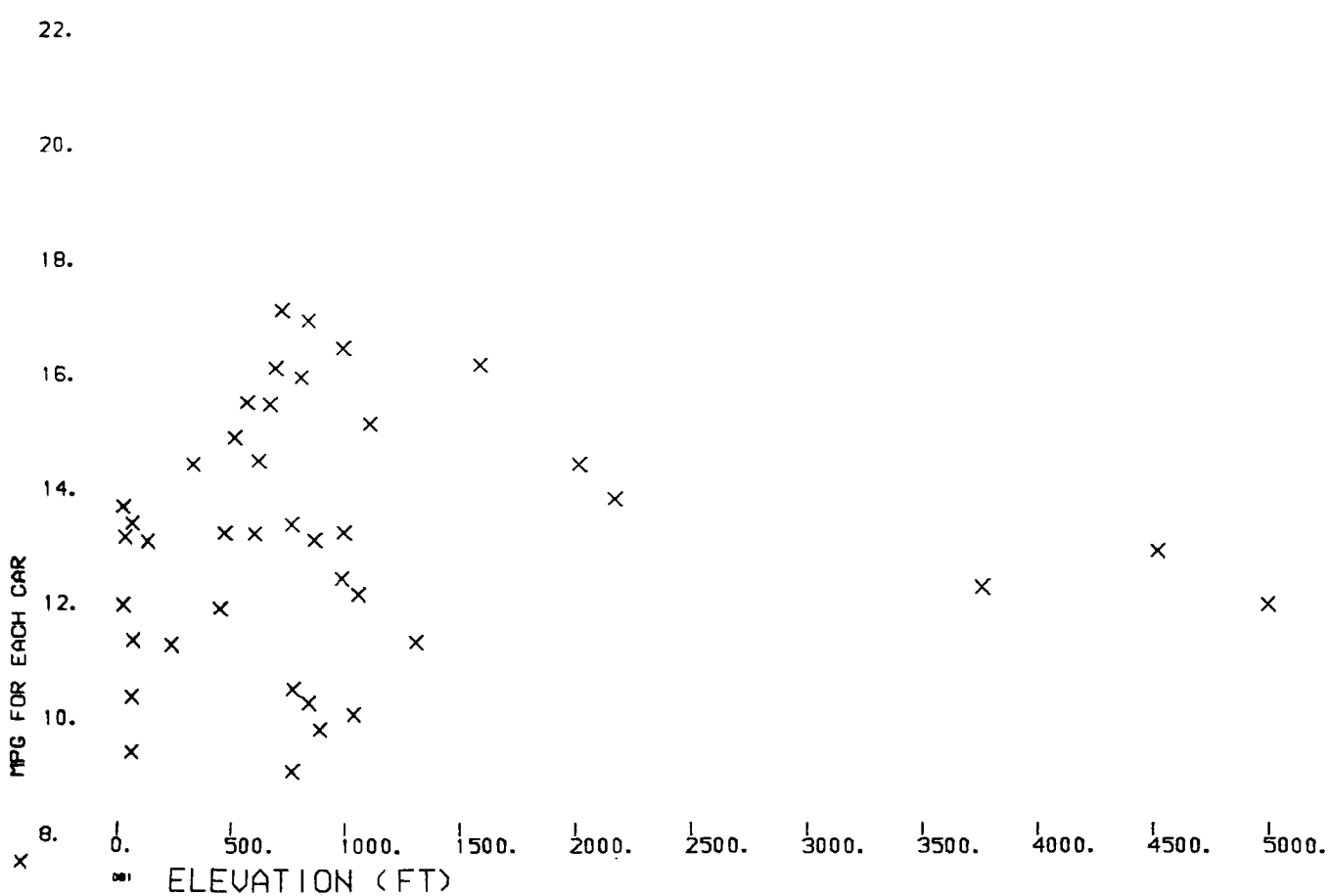
MPG VERSUS ELEVATION

CLASS 14000912

DATE 062476

CORRELATION COEFFICIENT = .0053

95 PERCENT CONFIDENCE INTERVAL = (-.3067, .3163)



GM FUEL ECONOMY STUDY

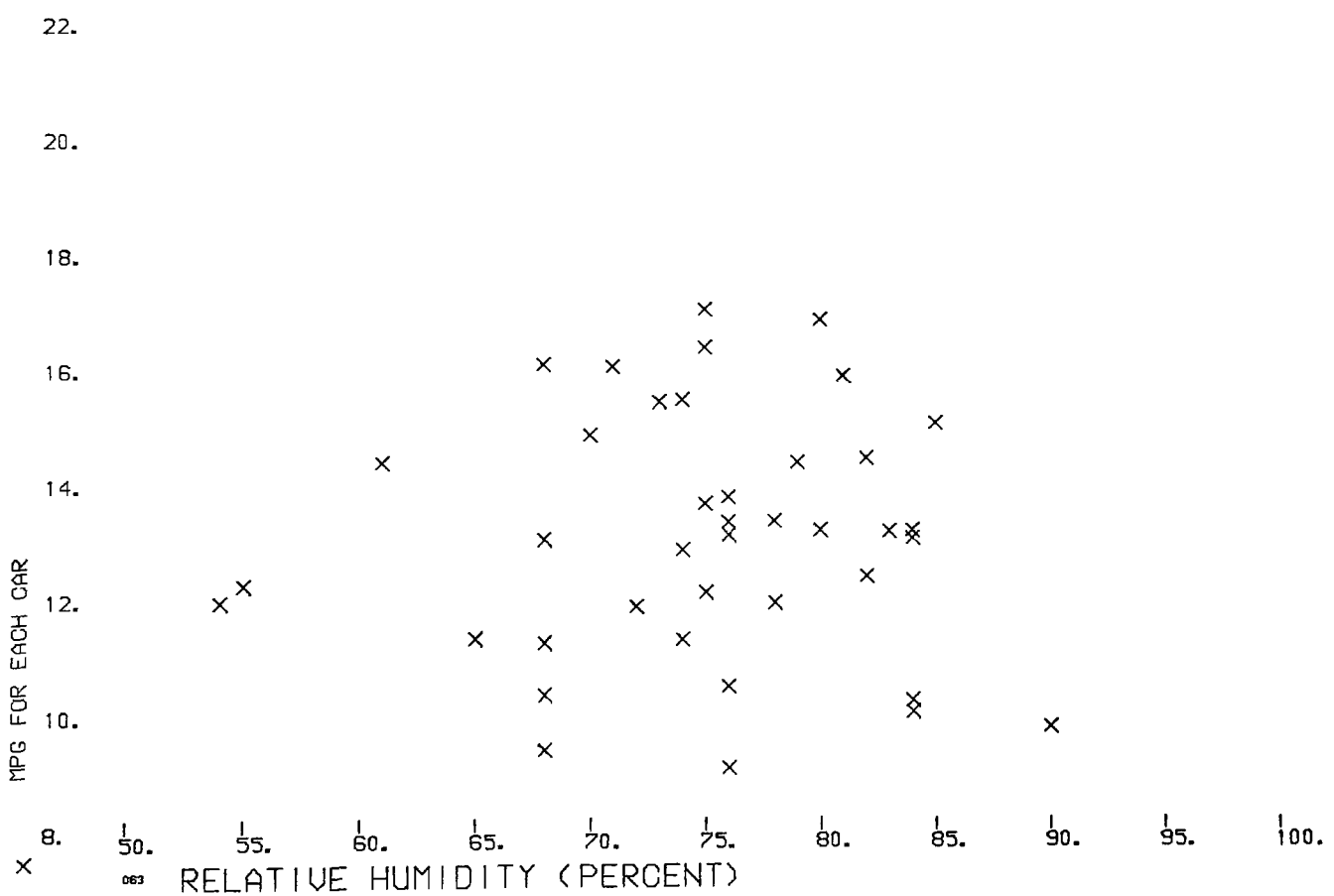
MPG VERSUS RELATIVE HUMIDITY

CLASS 14000912

DATE 062476

CORRELATION COEFFICIENT = .0201

95 PERCENT CONFIDENCE INTERVAL = (-.2933, .3295)



GM FUEL ECONOMY STUDY

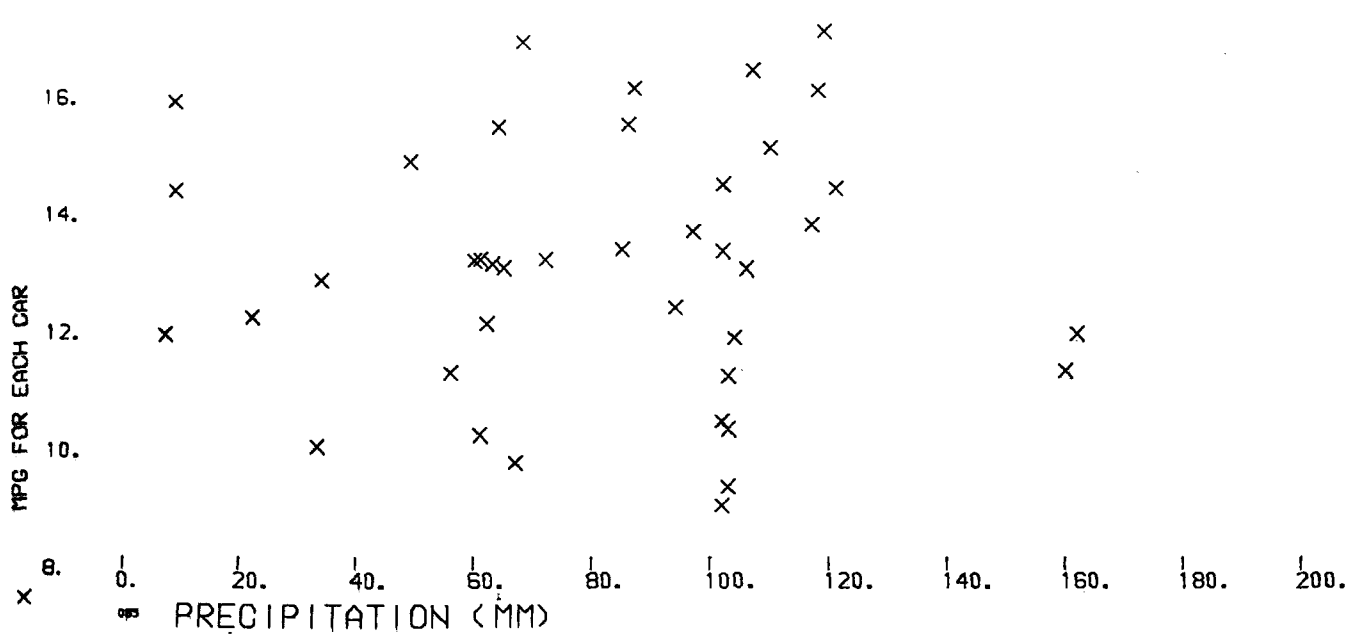
MPG VERSUS PRECIPITATION

CLASS 14000912

DATE 062476

CORRELATION COEFFICIENT =-.0078

95 PERCENT CONFIDENCE INTERVAL = (-.3185, .3045)



GM FUEL ECONOMY STUDY

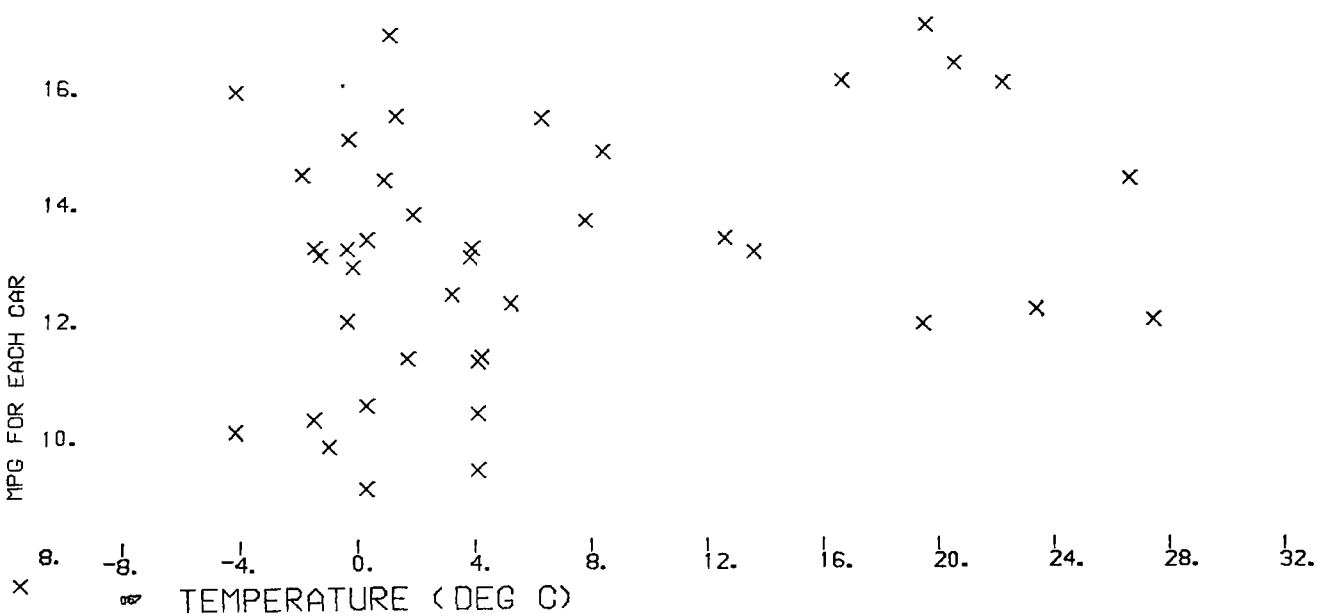
MPG VERSUS TEMPERATURE

CLASS 14000912

DATE 062476

CORRELATION COEFFICIENT = .2894

95 PERCENT CONFIDENCE INTERVAL = (-.0243, .5512)



GM FUEL ECONOMY STUDY

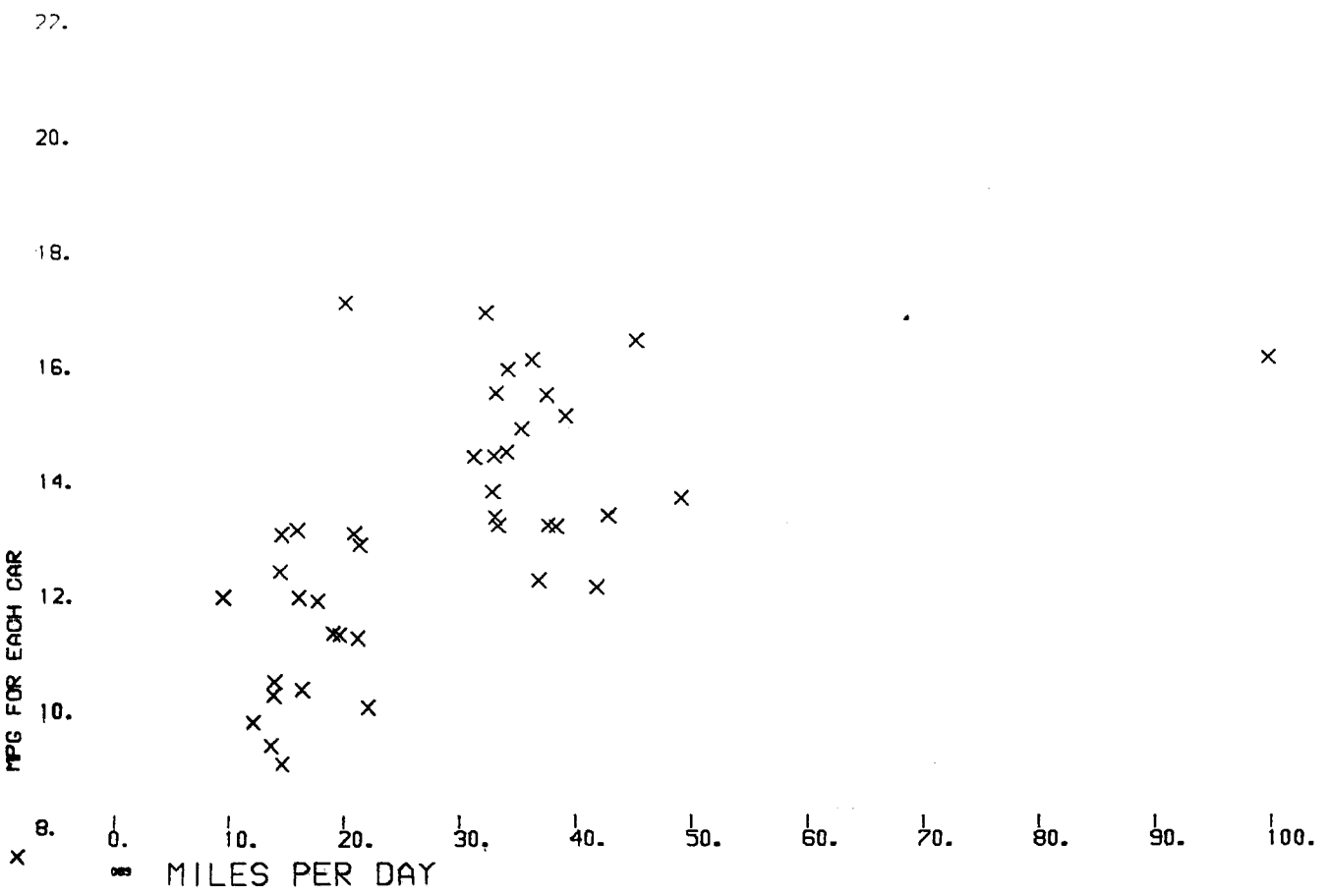
MPG VERSUS MILES PER DAY

CLASS 14000912

DATE 062476

CORRELATION COEFFICIENT = .5721

95 PERCENT CONFIDENCE INTERVAL = (.3171, .7500)



GM FUEL ECONOMY STUDY

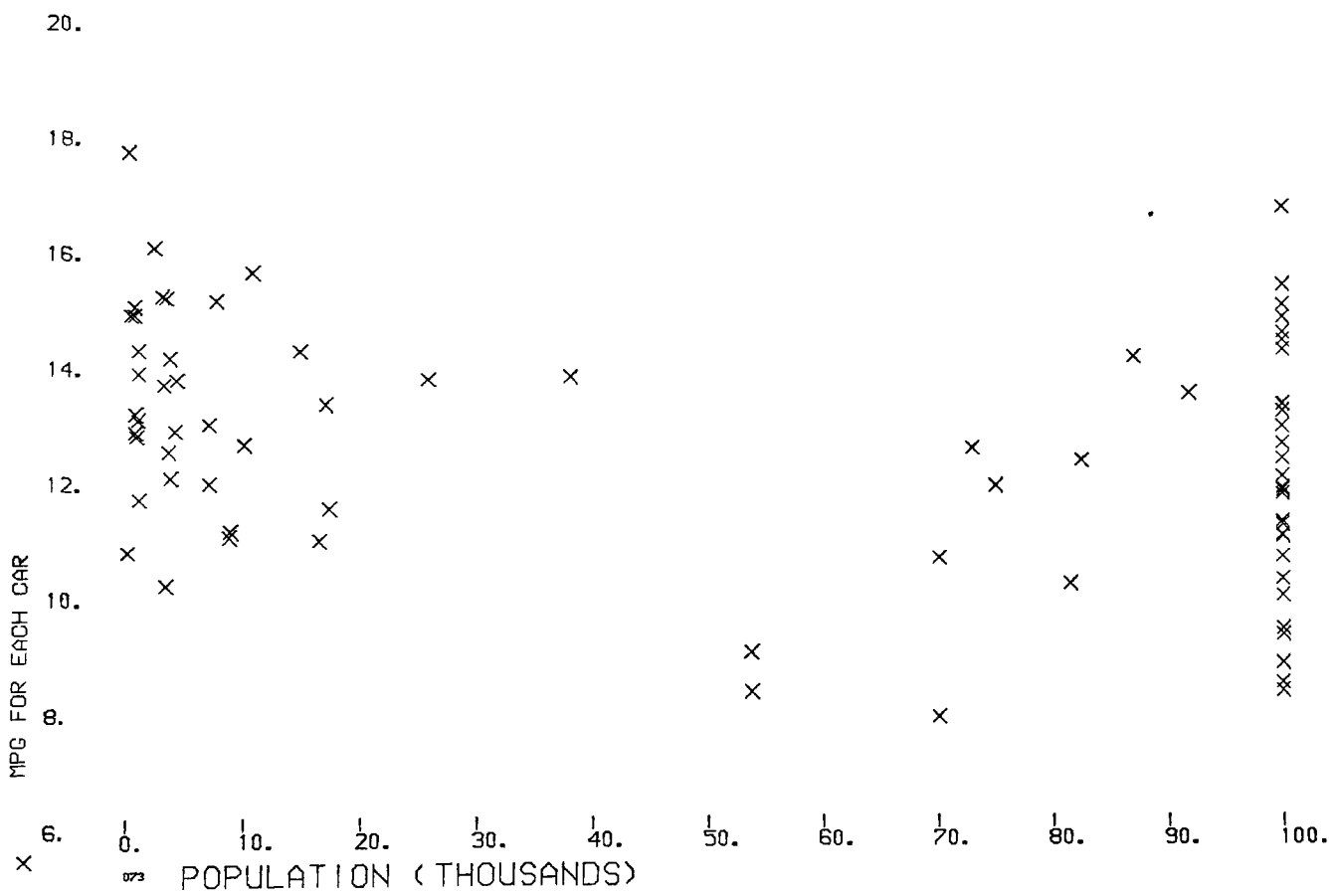
MPG VERSUS POPULATION

CLASS 14500912

DATE 062476

CORRELATION COEFFICIENT =-.2497

95 PERCENT CONFIDENCE INTERVAL = (-.4474, -.0288)



GM FUEL ECONOMY STUDY

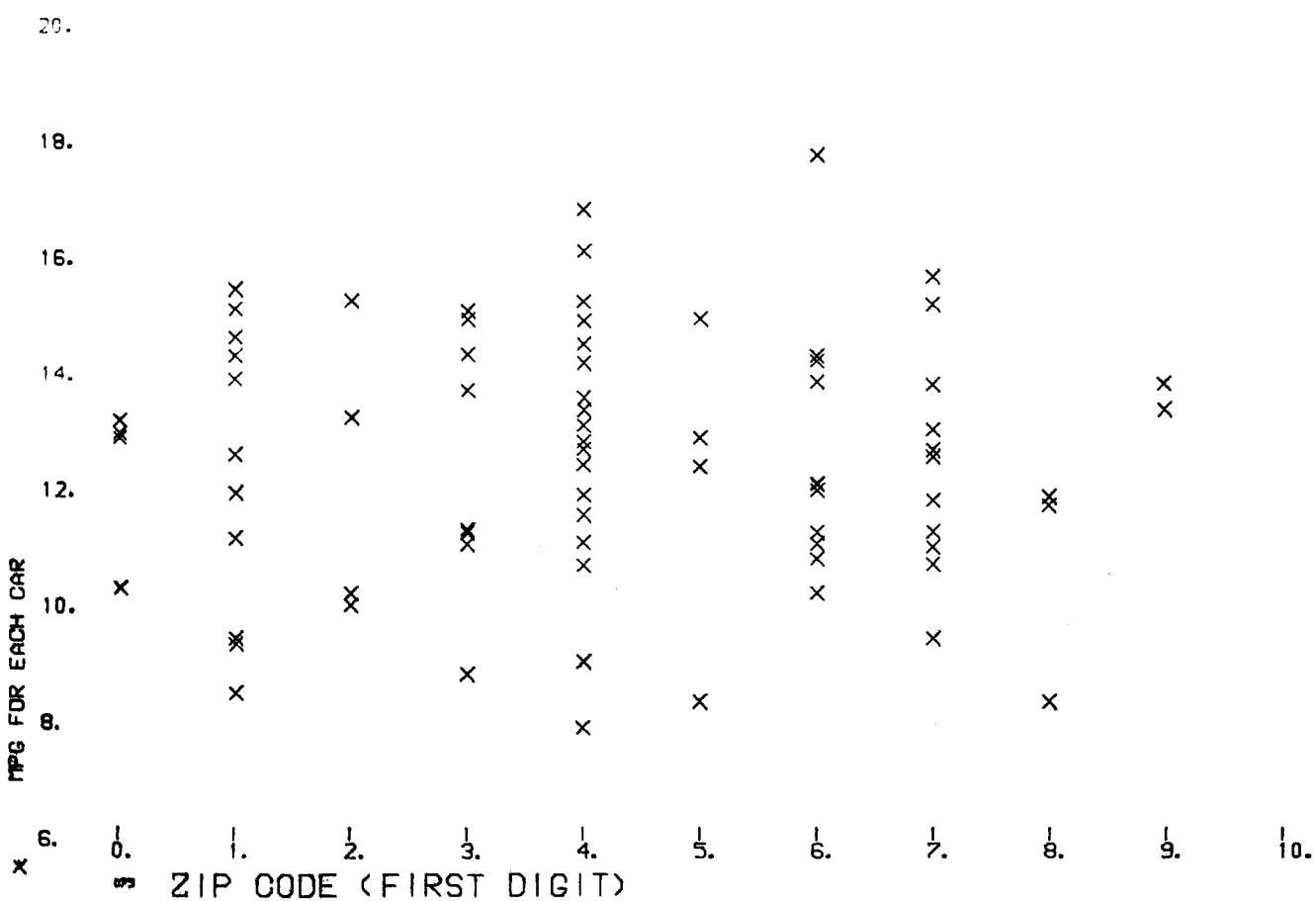
MPG VERSUS ZIP CODE

CLASS 14500912

DATE 062476

CORRELATION COEFFICIENT =-.0083

95 PERCENT CONFIDENCE INTERVAL = (-.2304, .2146)



GM FUEL ECONOMY STUDY

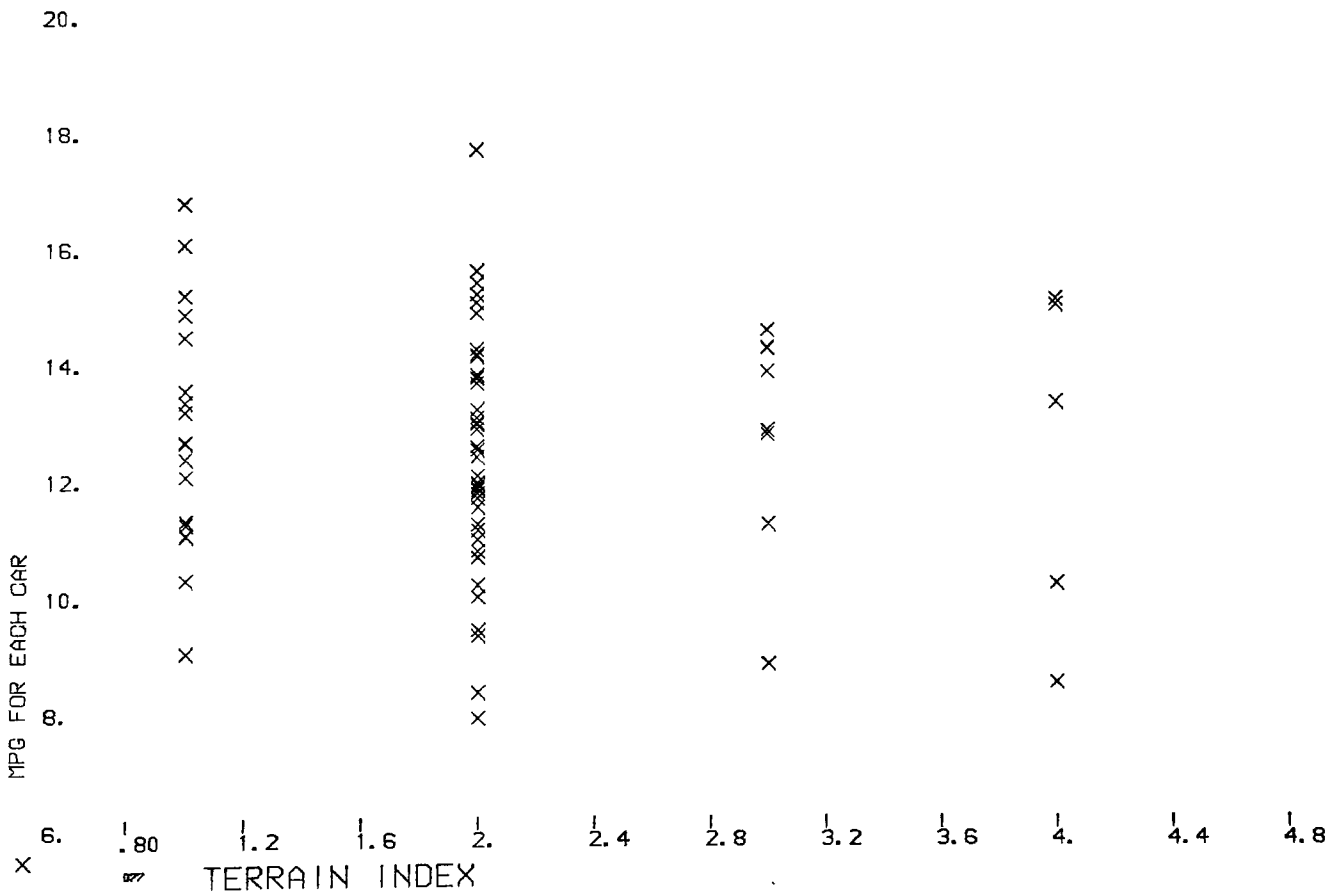
MPG VERSUS TERRAIN INDEX

CLASS 14500912

DATE 062476

CORRELATION COEFFICIENT =-.0085

95 PERCENT CONFIDENCE INTERVAL = (-.2306, .2144)



GM FUEL ECONOMY STUDY

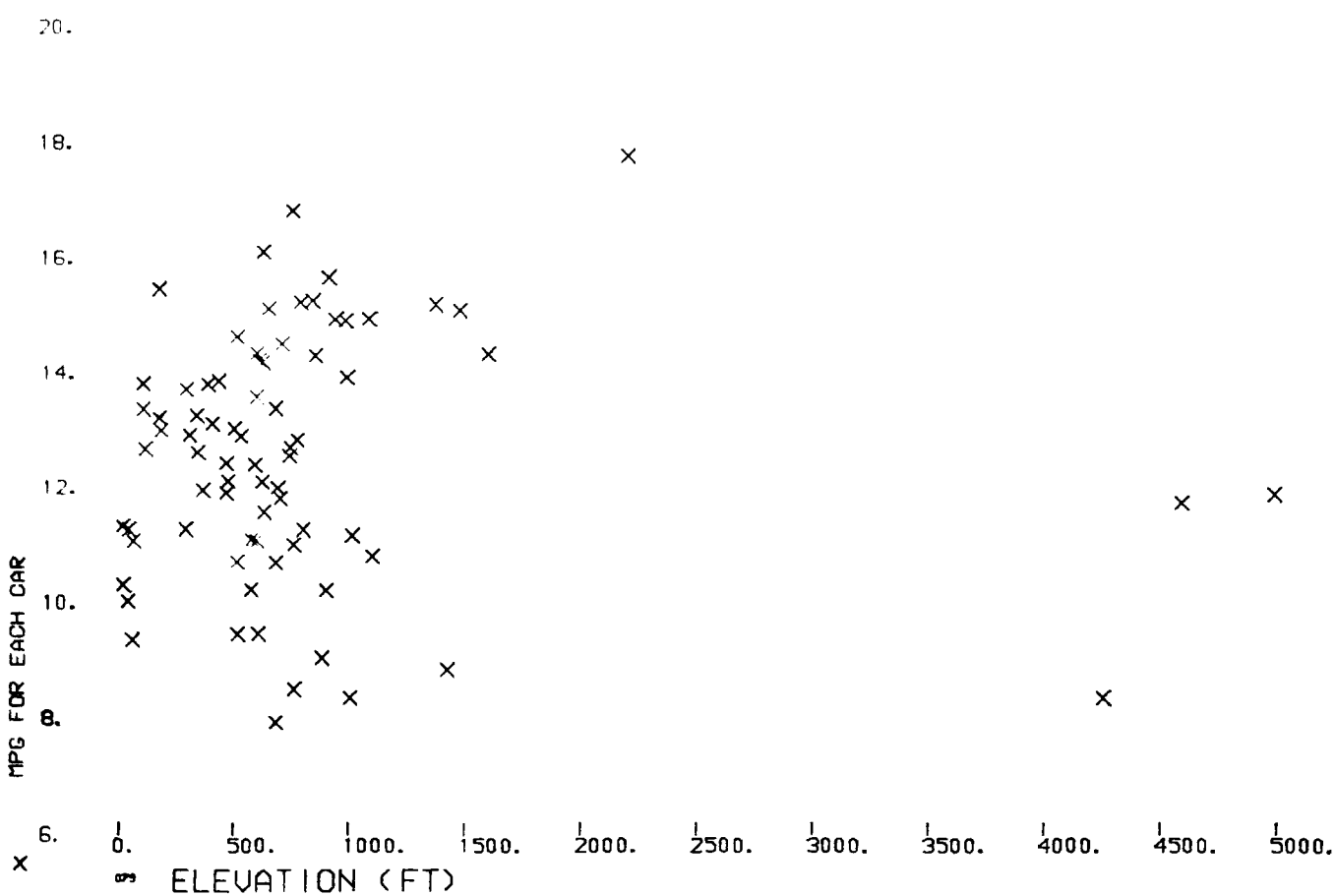
MPG VERSUS ELEVATION

CLASS 14500912

DATE 062476

CORRELATION COEFFICIENT =-.0376

95 PERCENT CONFIDENCE INTERVAL = (-.2580, .1865)



GM FUEL ECONOMY STUDY

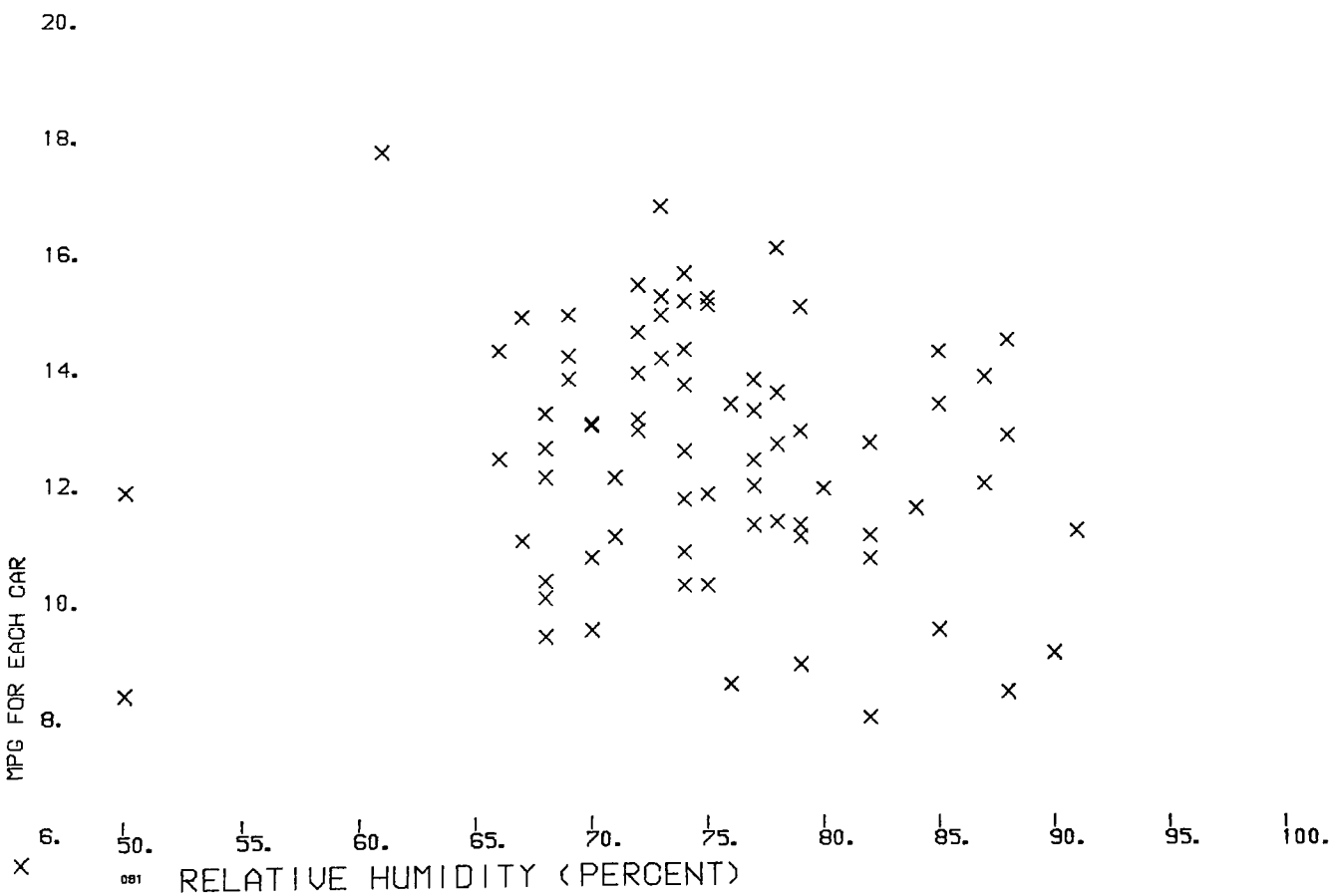
MPG VERSUS RELATIVE HUMIDITY

CLASS 14500912

DATE 062476

CORRELATION COEFFICIENT =-.0991

95 PERCENT CONFIDENCE INTERVAL = (-.3147, .1262)



GM FUEL ECONOMY STUDY

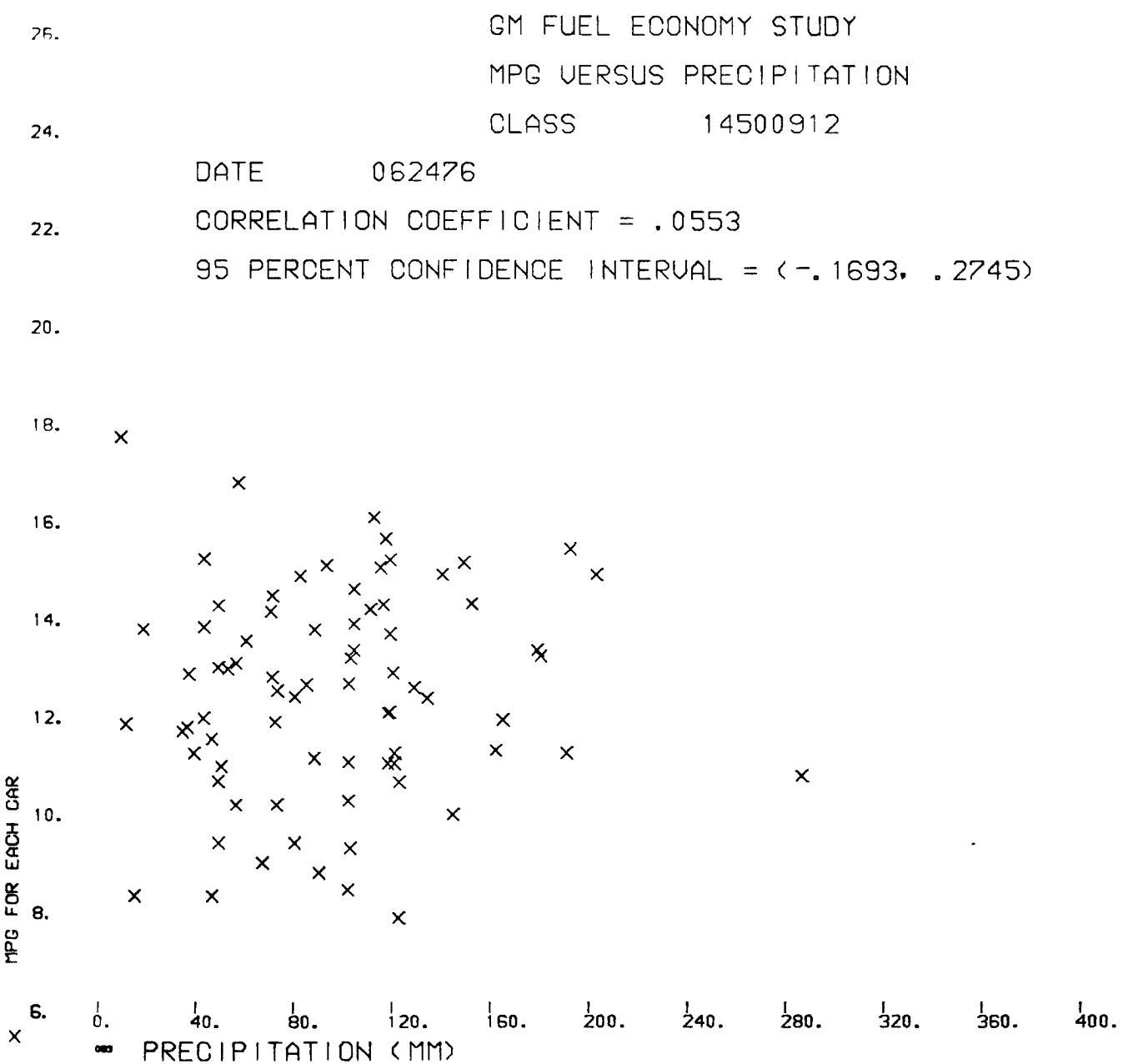
MPG VERSUS PRECIPITATION

CLASS 14500912

DATE 062476

CORRELATION COEFFICIENT = .0553

95 PERCENT CONFIDENCE INTERVAL = (-.1693, .2745)



GM FUEL ECONOMY STUDY

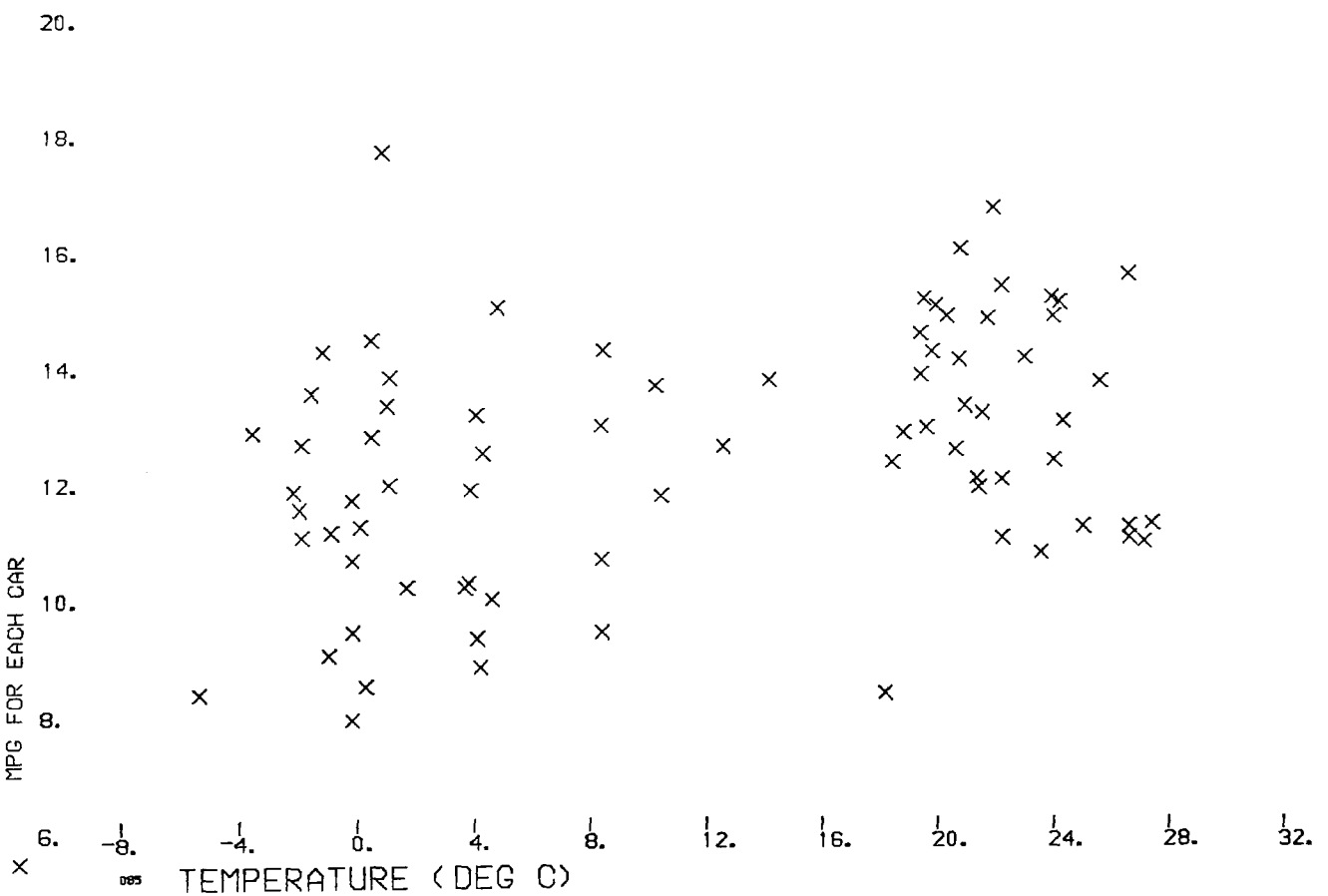
MPG VERSUS TEMPERATURE

CLASS 14500912

DATE 062476

CORRELATION COEFFICIENT = .3458

95 PERCENT CONFIDENCE INTERVAL = (.1335, .5277)



GM FUEL ECONOMY STUDY

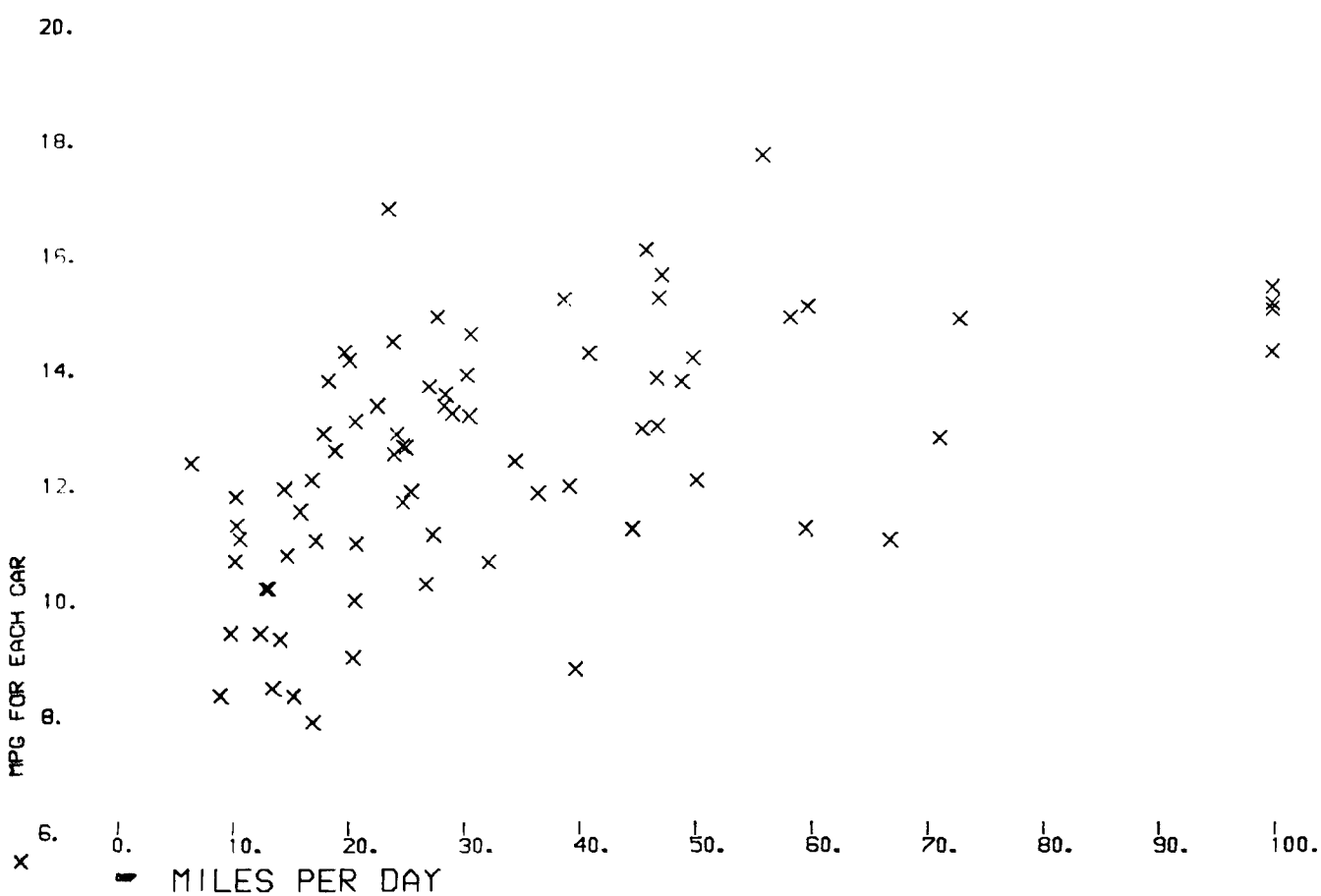
MPG VERSUS MILES PER DAY

CLASS 14500912

DATE 062476

CORRELATION COEFFICIENT = .4056

95 PERCENT CONFIDENCE INTERVAL = (.2012, .5761)



GM FUEL ECONOMY STUDY

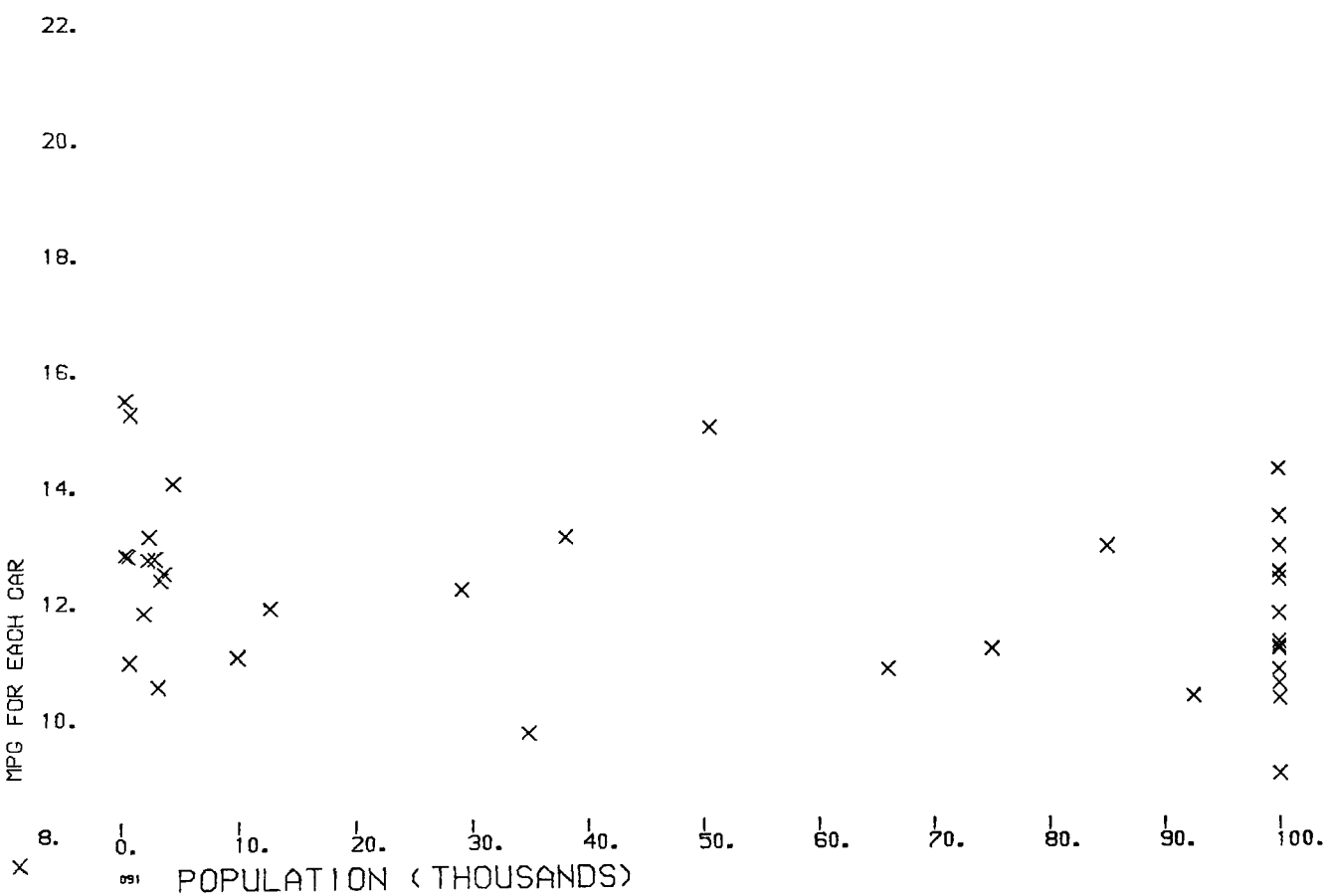
MPG VERSUS POPULATION

CLASS 15250914

DATE 062476

CORRELATION COEFFICIENT =-.2621

95 PERCENT CONFIDENCE INTERVAL = (-.5402, .0677)



GM FUEL ECONOMY STUDY

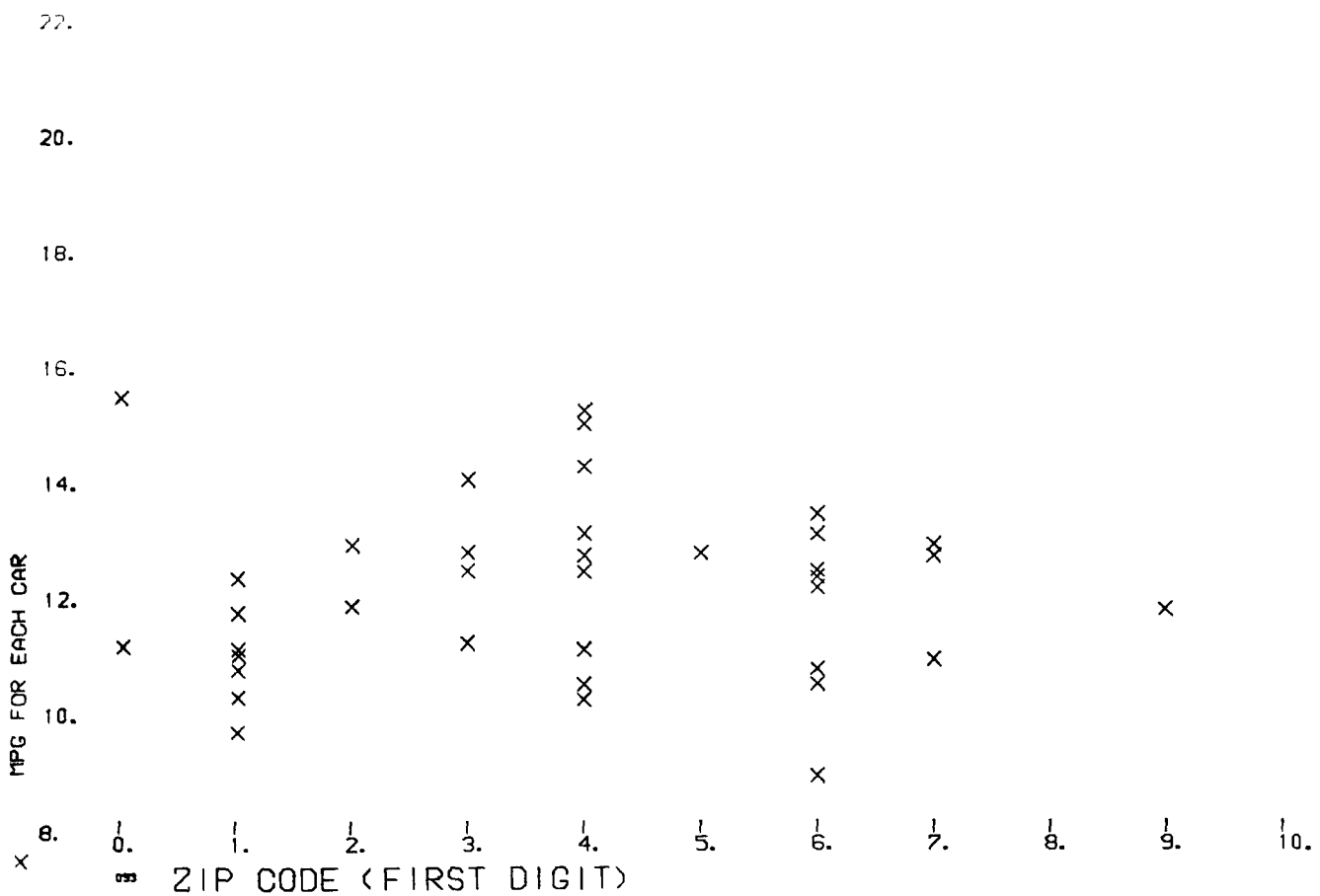
MPG VERSUS ZIP CODE

CLASS 15250914

DATE 062476

CORRELATION COEFFICIENT = .0343

95 PERCENT CONFIDENCE INTERVAL = (-.2929, .3544)



GM FUEL ECONOMY STUDY

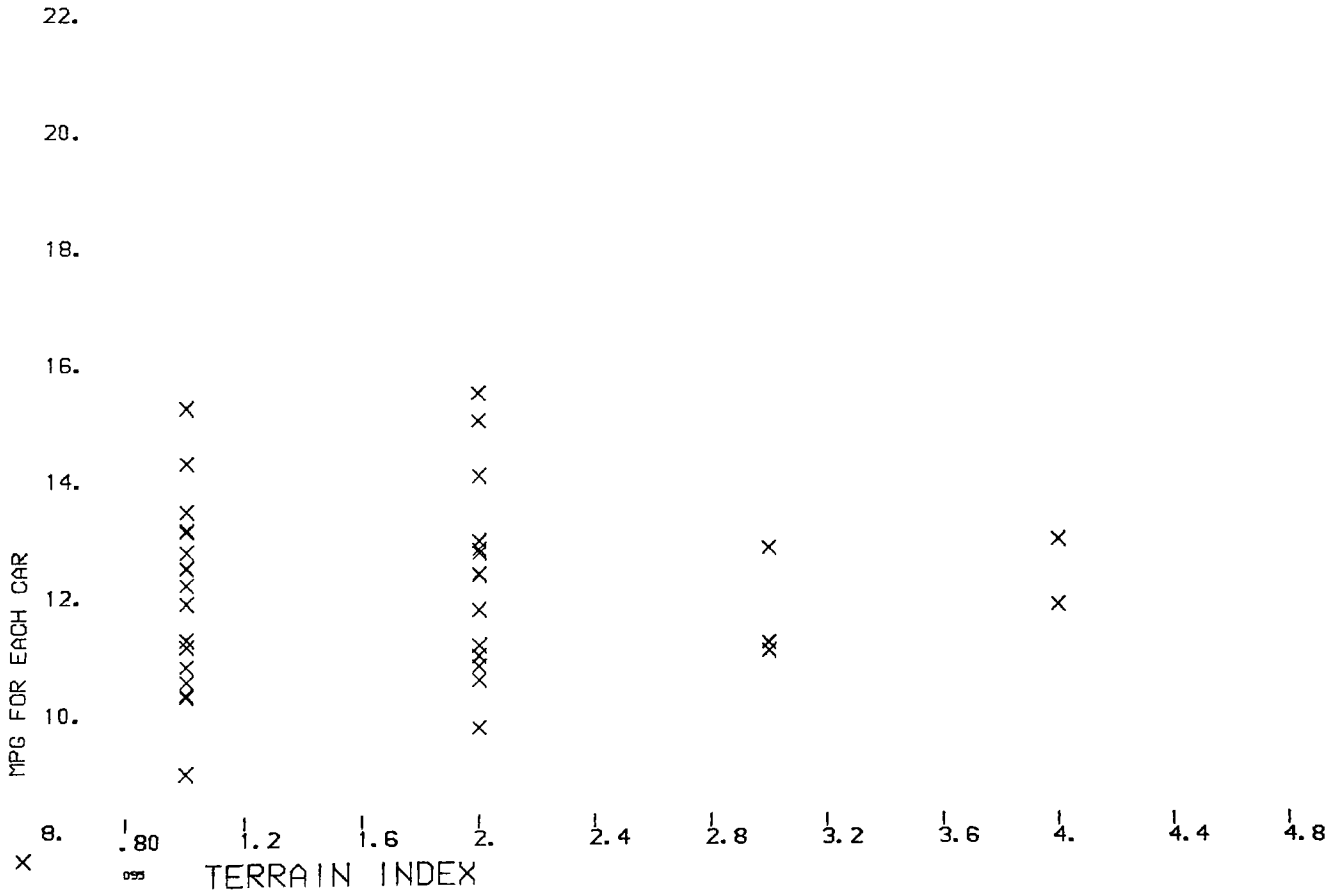
MPG VERSUS TERRAIN INDEX

CLASS 15250914

DATE 062476

CORRELATION COEFFICIENT = .0281

95 PERCENT CONFIDENCE INTERVAL = (-.2986, .3489)



GM FUEL ECONOMY STUDY

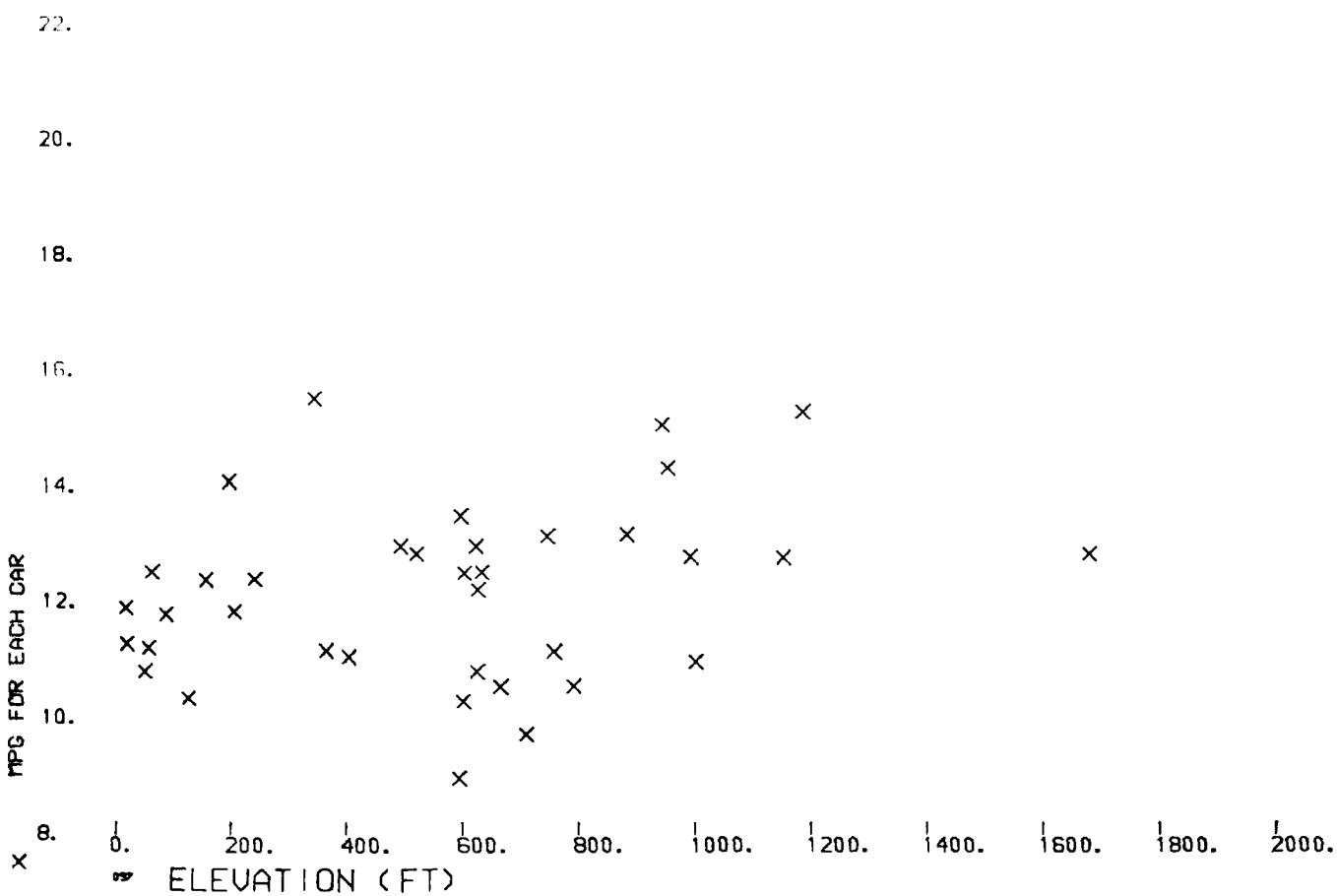
MPG VERSUS ELEVATION

CLASS 15250914

DATE 062476

CORRELATION COEFFICIENT = .2562

95 PERCENT CONFIDENCE INTERVAL = (-.0739, .5358)



GM FUEL ECONOMY STUDY

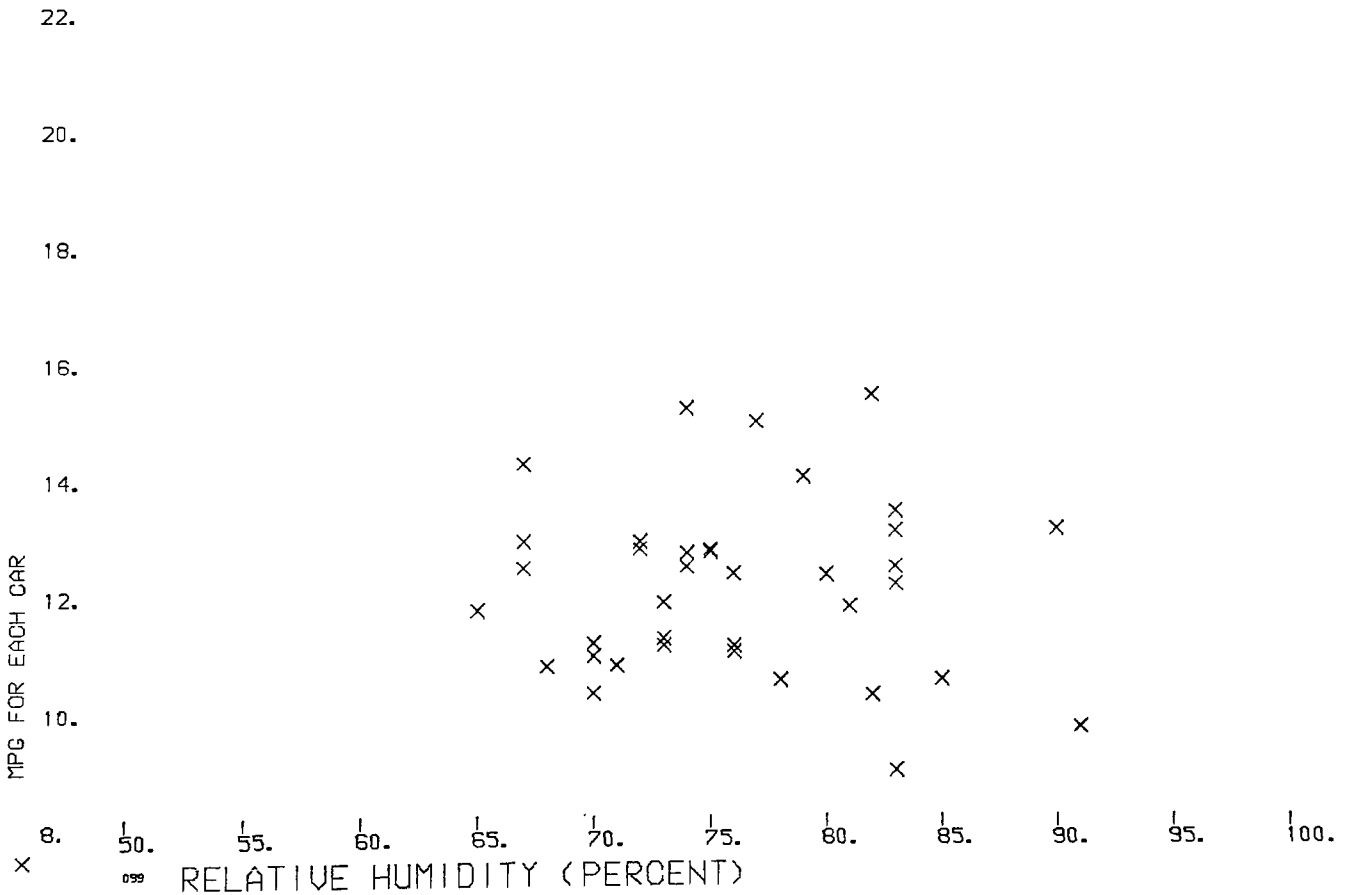
MPG VERSUS RELATIVE HUMIDITY

CLASS 15250914

DATE 062476

CORRELATION COEFFICIENT =-.0548

95 PERCENT CONFIDENCE INTERVAL = (-.3722, .2741)



GM FUEL ECONOMY STUDY

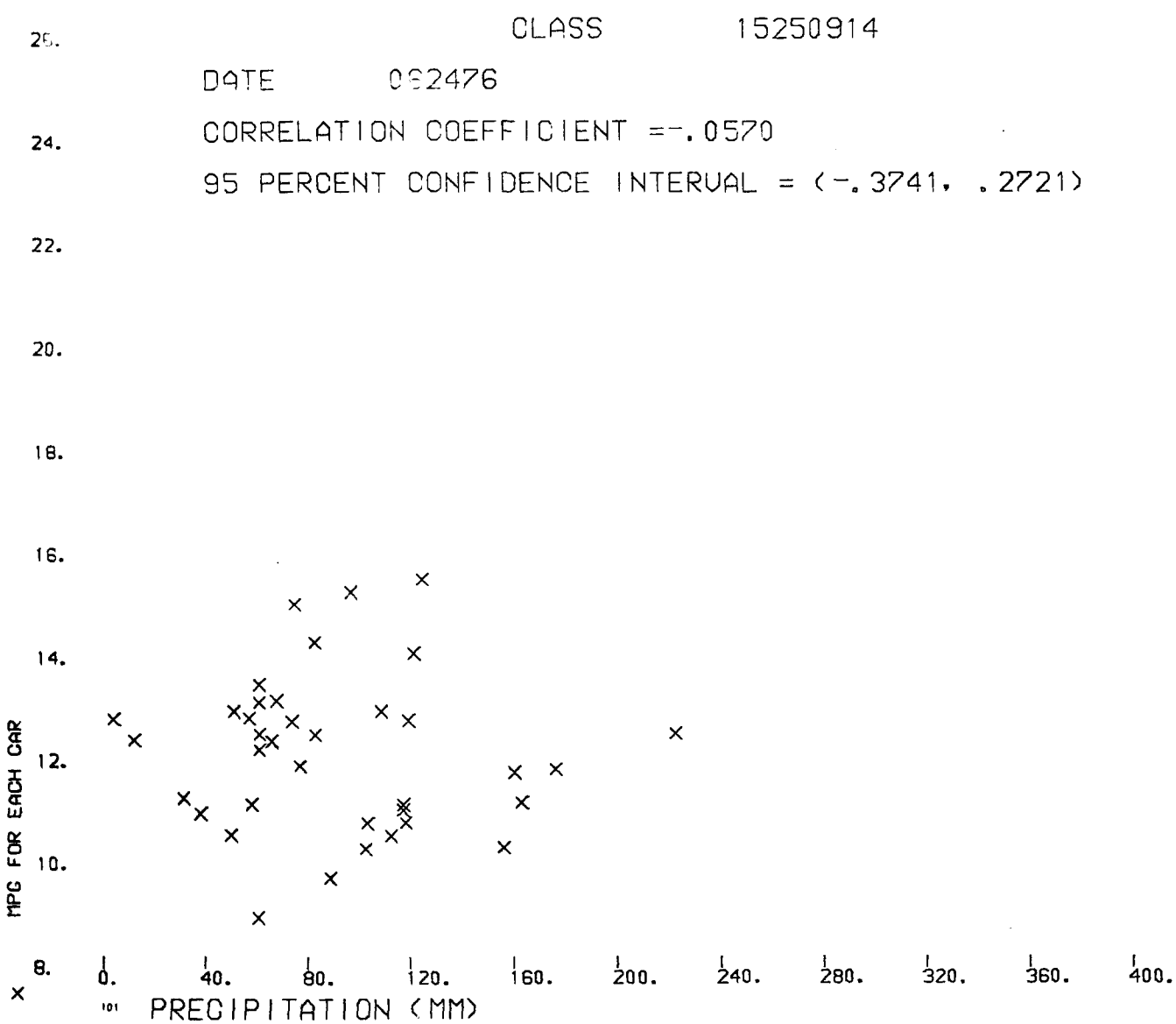
MPG VERSUS PRECIPITATION

CLASS 15250914

DATE 092476

CORRELATION COEFFICIENT =-.0570

95 PERCENT CONFIDENCE INTERVAL = (-.3741, .2721)



GM FUEL ECONOMY STUDY

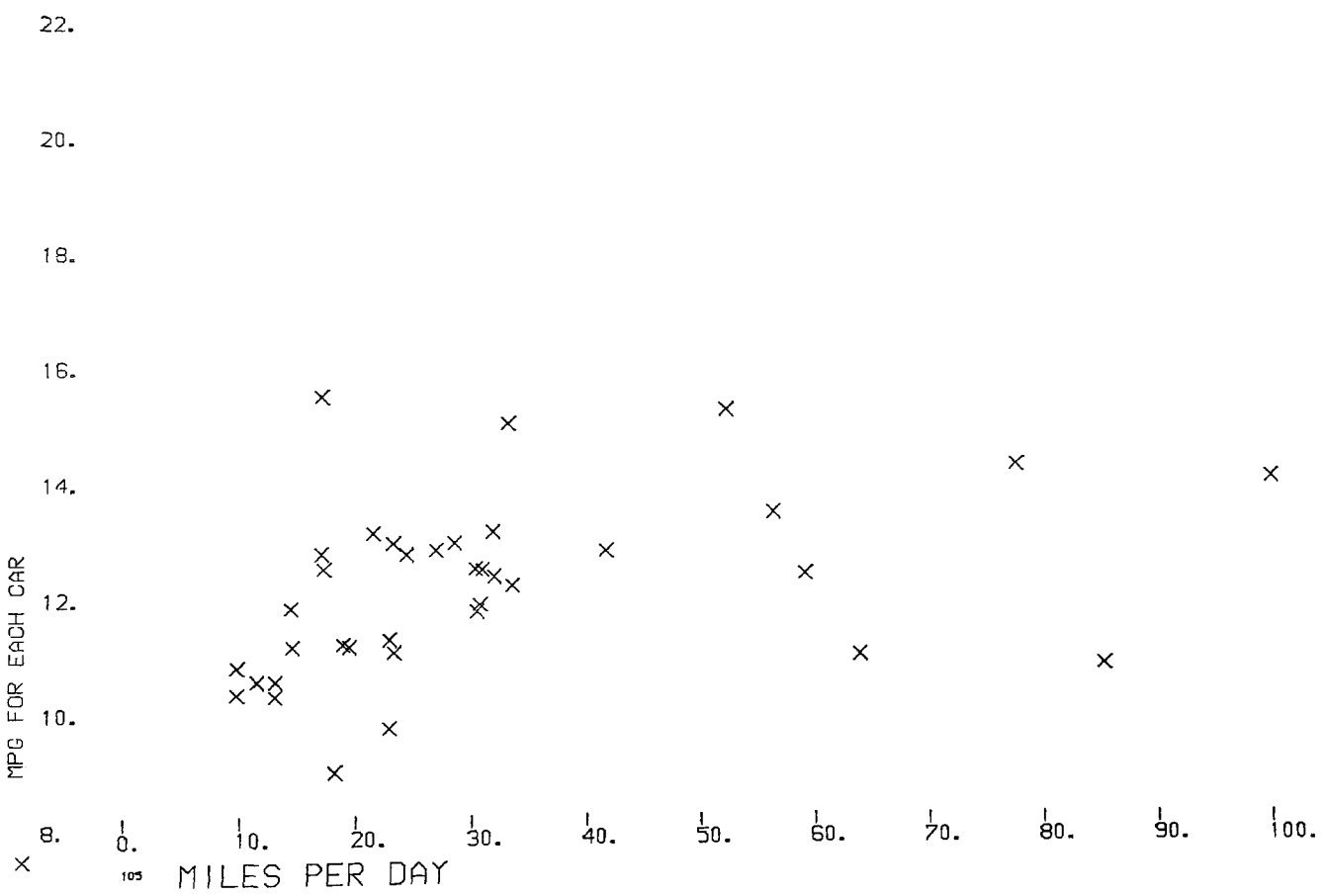
MPG VERSUS MILES PER DAY

CLASS 15250914

DATE 062476

CORRELATION COEFFICIENT = .3654

95 PERCENT CONFIDENCE INTERVAL = (.0469, .6164)



GM FUEL ECONOMY STUDY

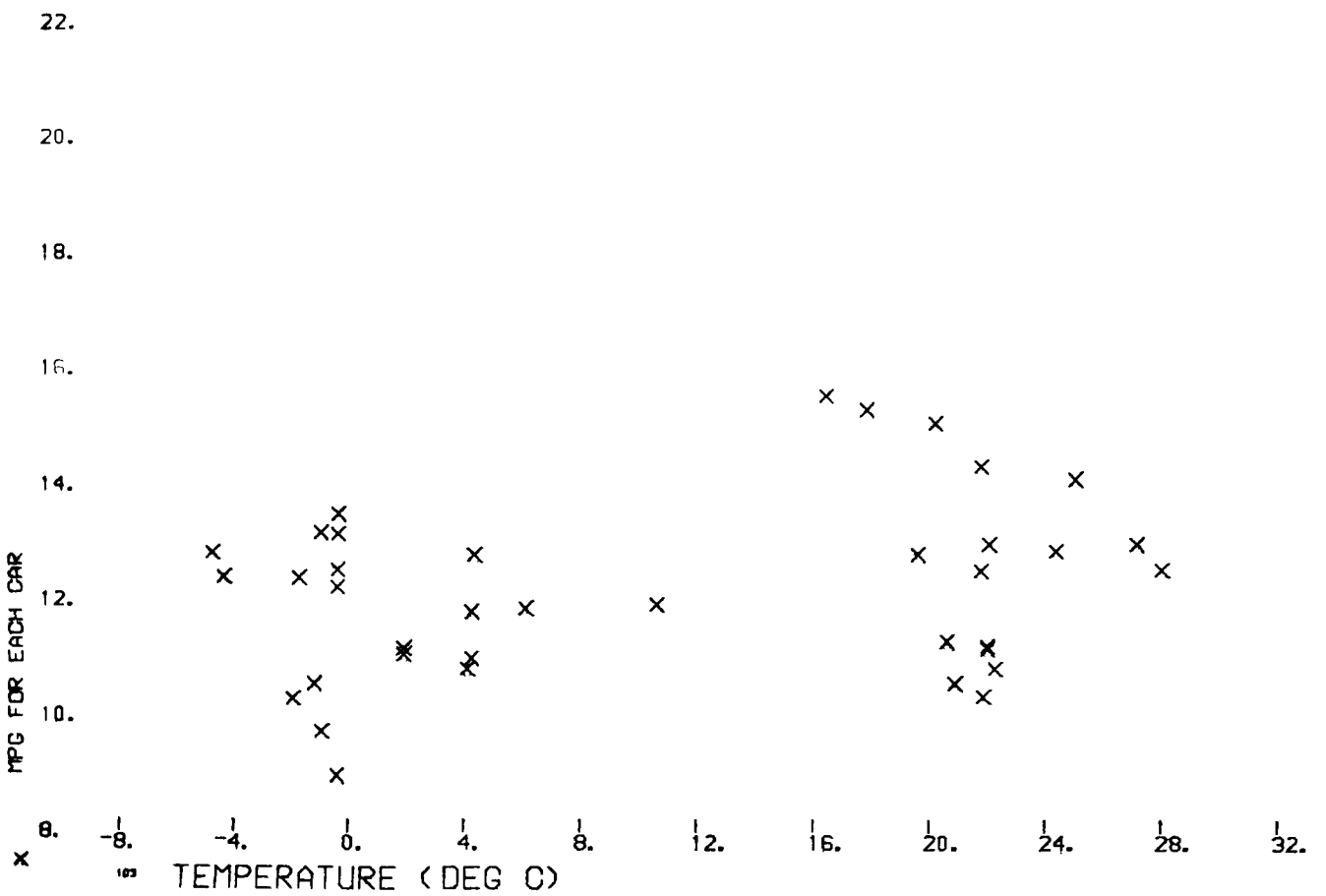
MPG VERSUS TEMPERATURE

CLASS 15250914

DATE 062476

CORRELATION COEFFICIENT = .2742

95 PERCENT CONFIDENCE INTERVAL = (-.0547, .5494)



GM FUEL ECONOMY STUDY

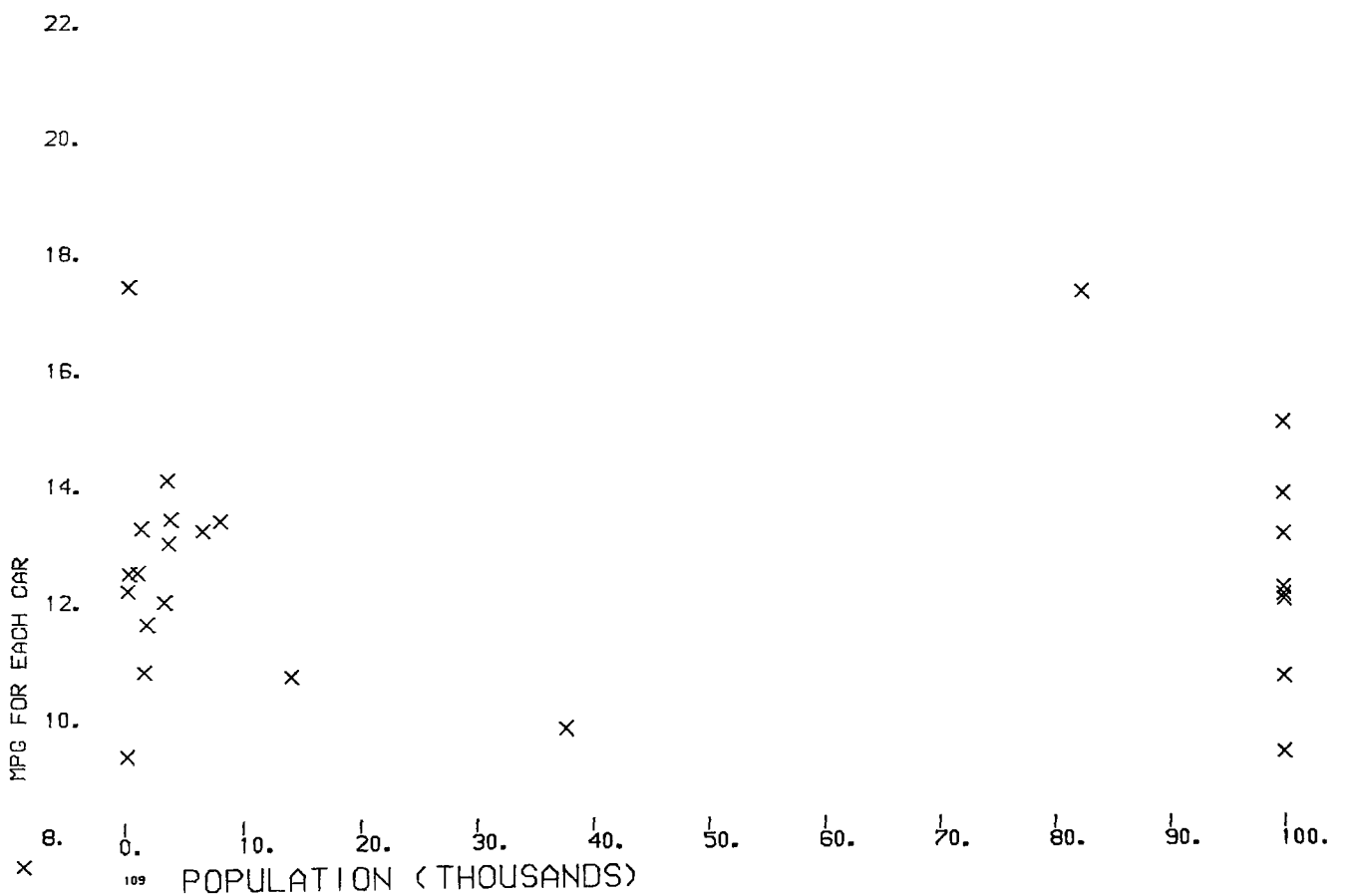
MPG VERSUS POPULATION

CLASS 15251212

DATE 062476

CORRELATION COEFFICIENT = .0809

95 PERCENT CONFIDENCE INTERVAL = (-.3246, .4613)



GM FUEL ECONOMY STUDY

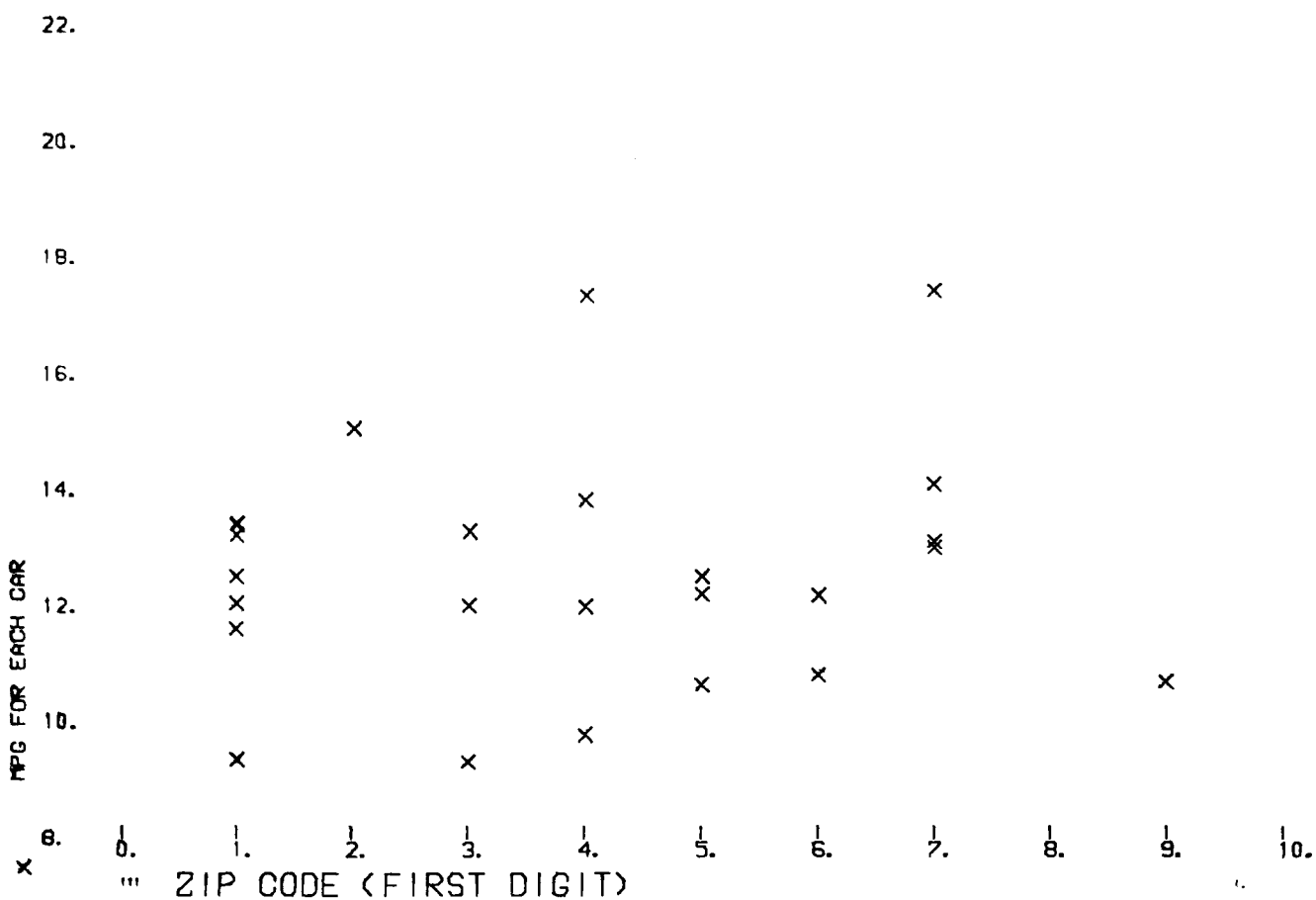
MPG VERSUS ZIP CODE

CLASS 15251212

DATE 062476

CORRELATION COEFFICIENT = .0955

95 PERCENT CONFIDENCE INTERVAL = (-.3114, .4728)



GM FUEL ECONOMY STUDY

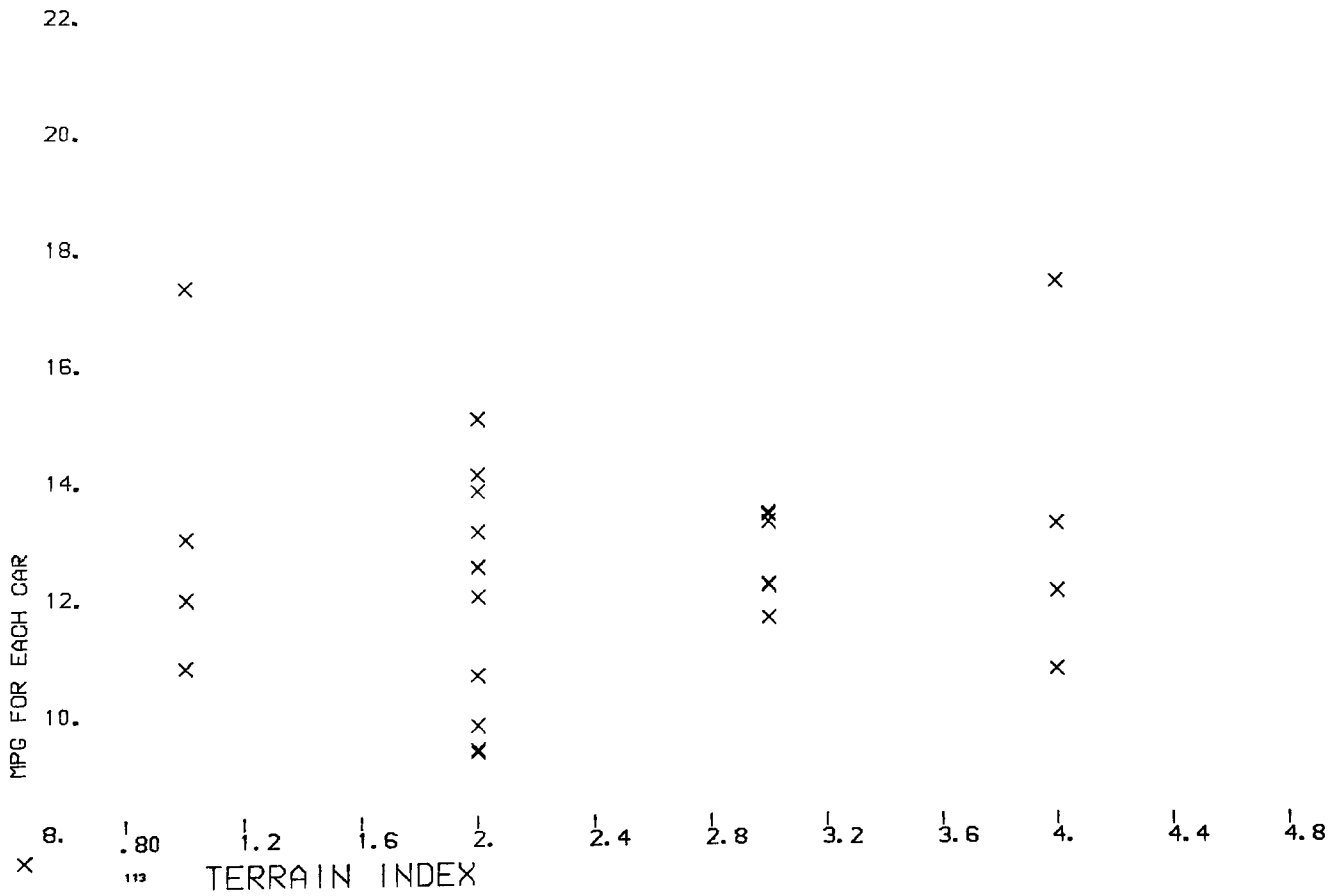
MPG VERSUS TERRAIN INDEX

CLASS 15251212

DATE 062476

CORRELATION COEFFICIENT = .0835

95 PERCENT CONFIDENCE INTERVAL = (-.3222, .4634)



GM FUEL ECONOMY STUDY

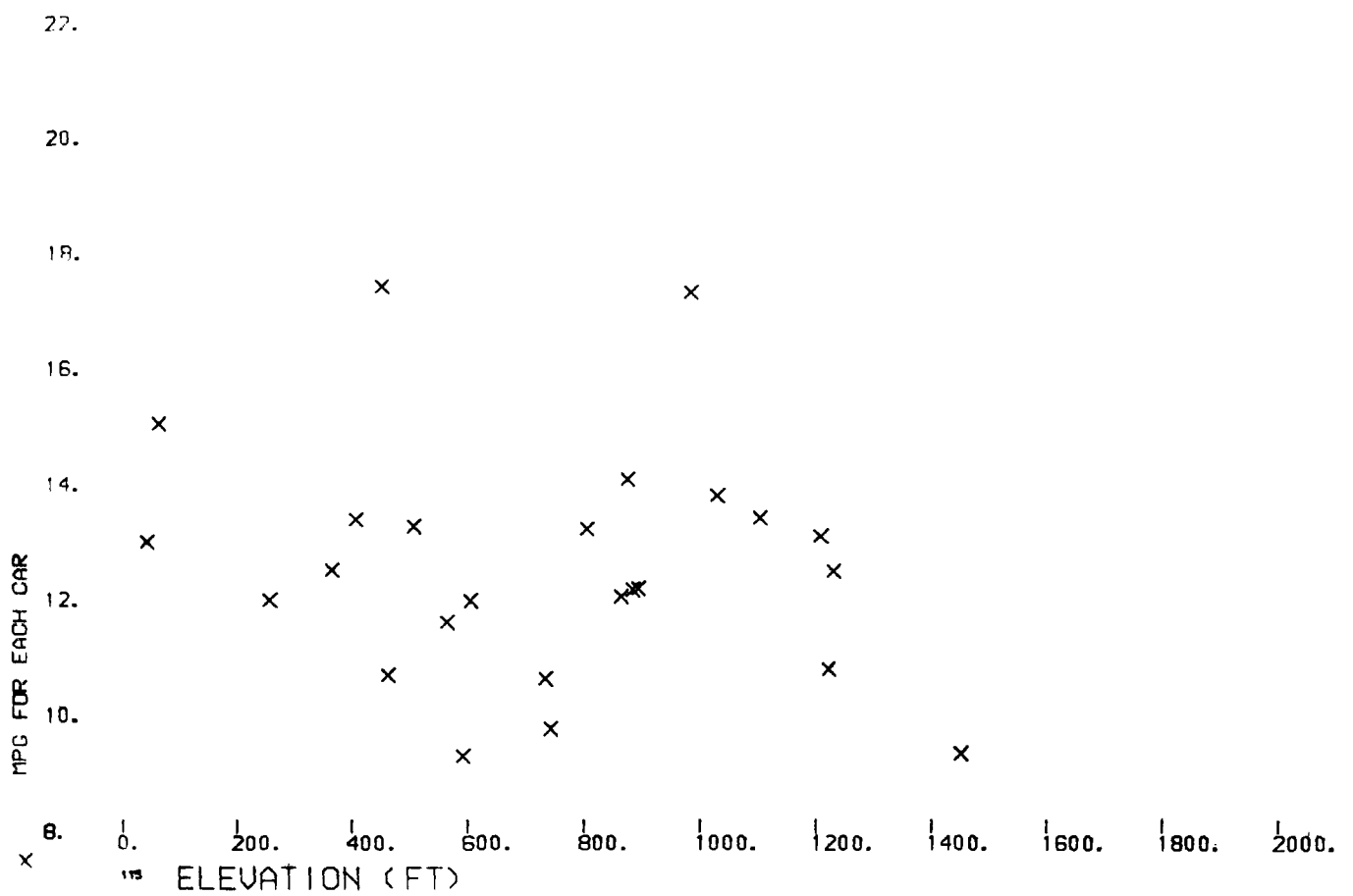
MPG VERSUS ELEVATION

CLASS 15251212

DATE 062476

CORRELATION COEFFICIENT =-.1840

95 PERCENT CONFIDENCE INTERVAL = (-.5399, .2277)



GM FUEL ECONOMY STUDY

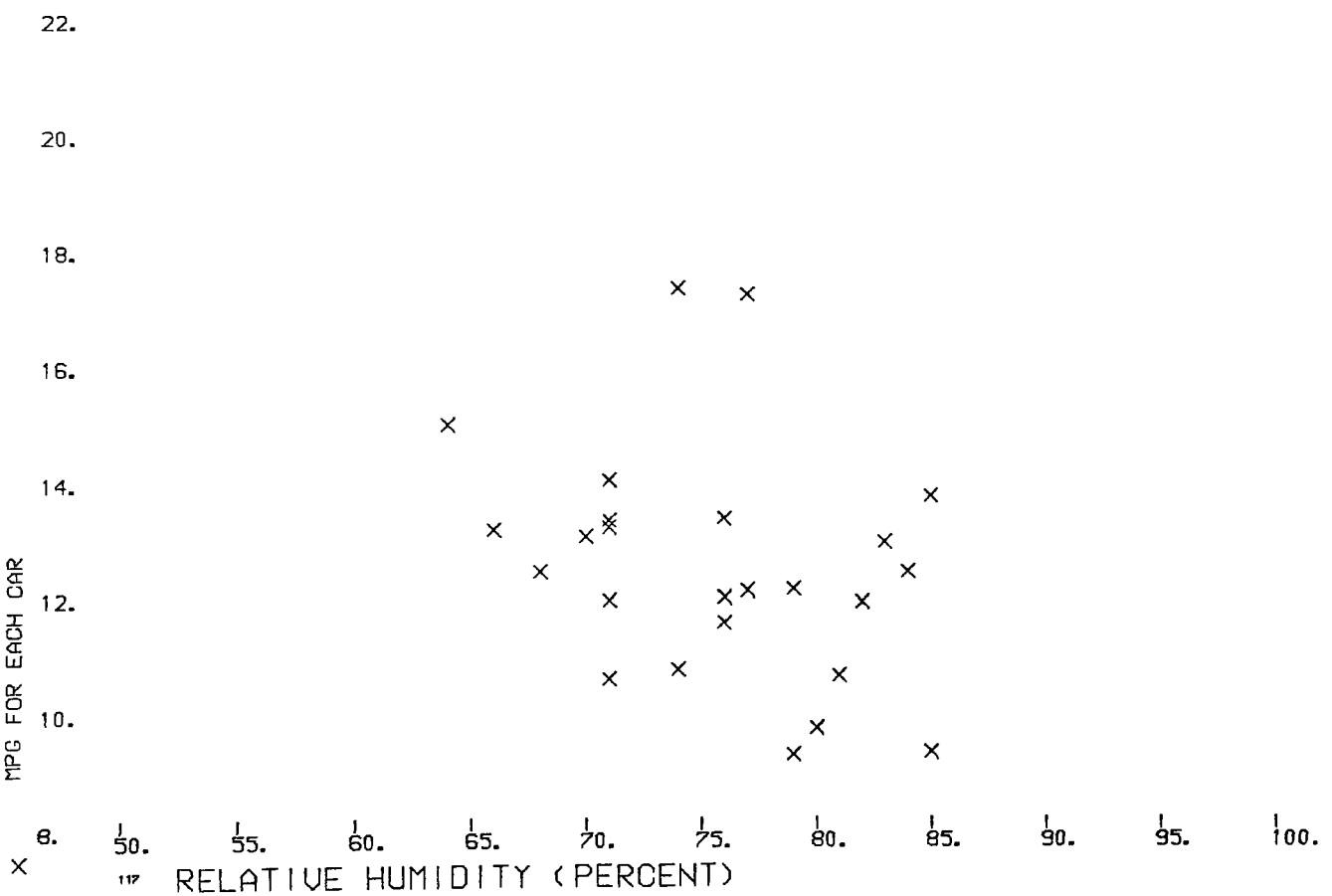
MPG VERSUS RELATIVE HUMIDITY

CLASS 15251212

DATE 062476

CORRELATION COEFFICIENT =-.3226

95 PERCENT CONFIDENCE INTERVAL = (-.6366, .0832)



GM FUEL ECONOMY STUDY

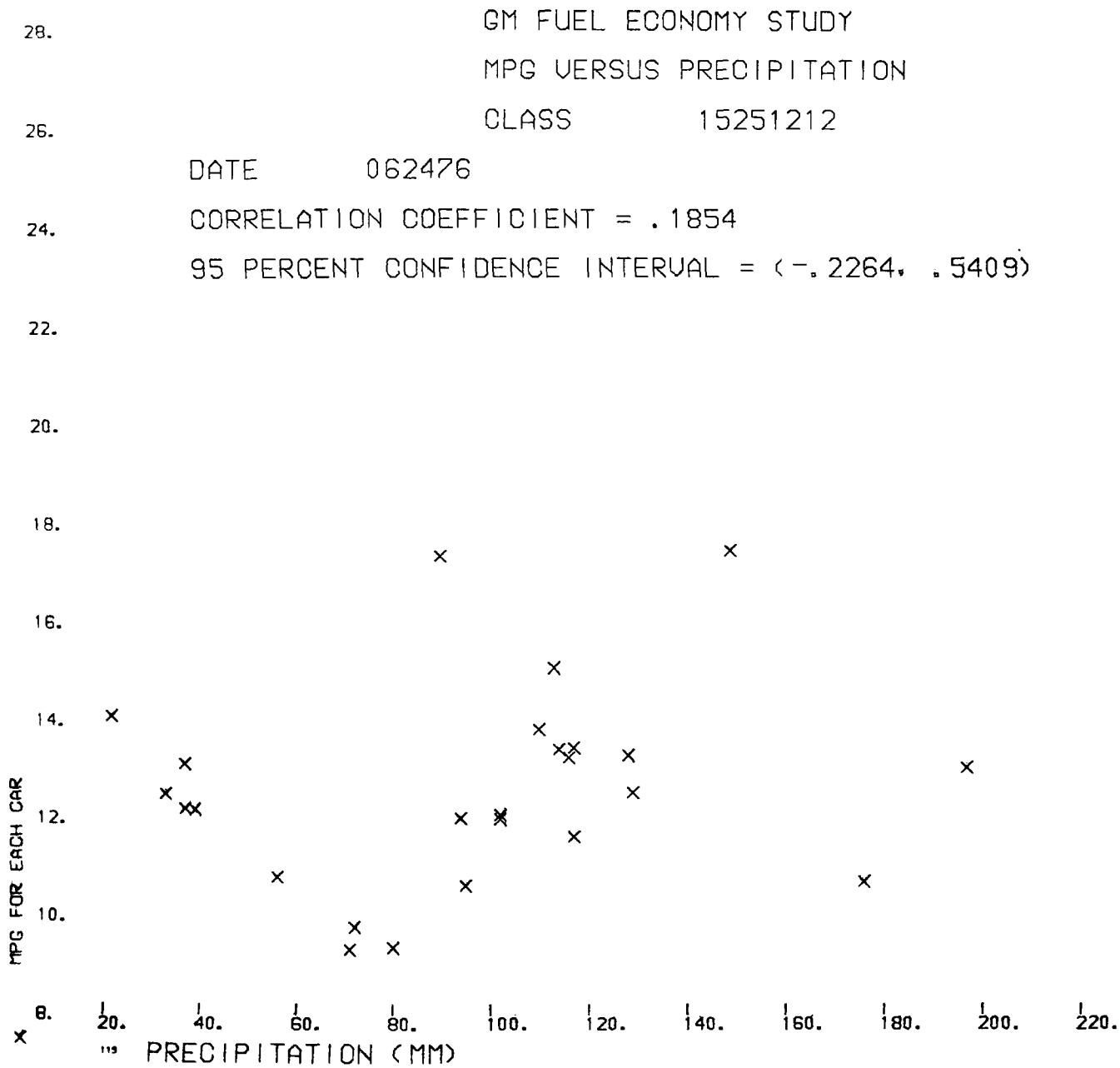
MPG VERSUS PRECIPITATION

CLASS 15251212

DATE 062476

CORRELATION COEFFICIENT = .1854

95 PERCENT CONFIDENCE INTERVAL = (-.2264, .5409)



GM FUEL ECONOMY STUDY

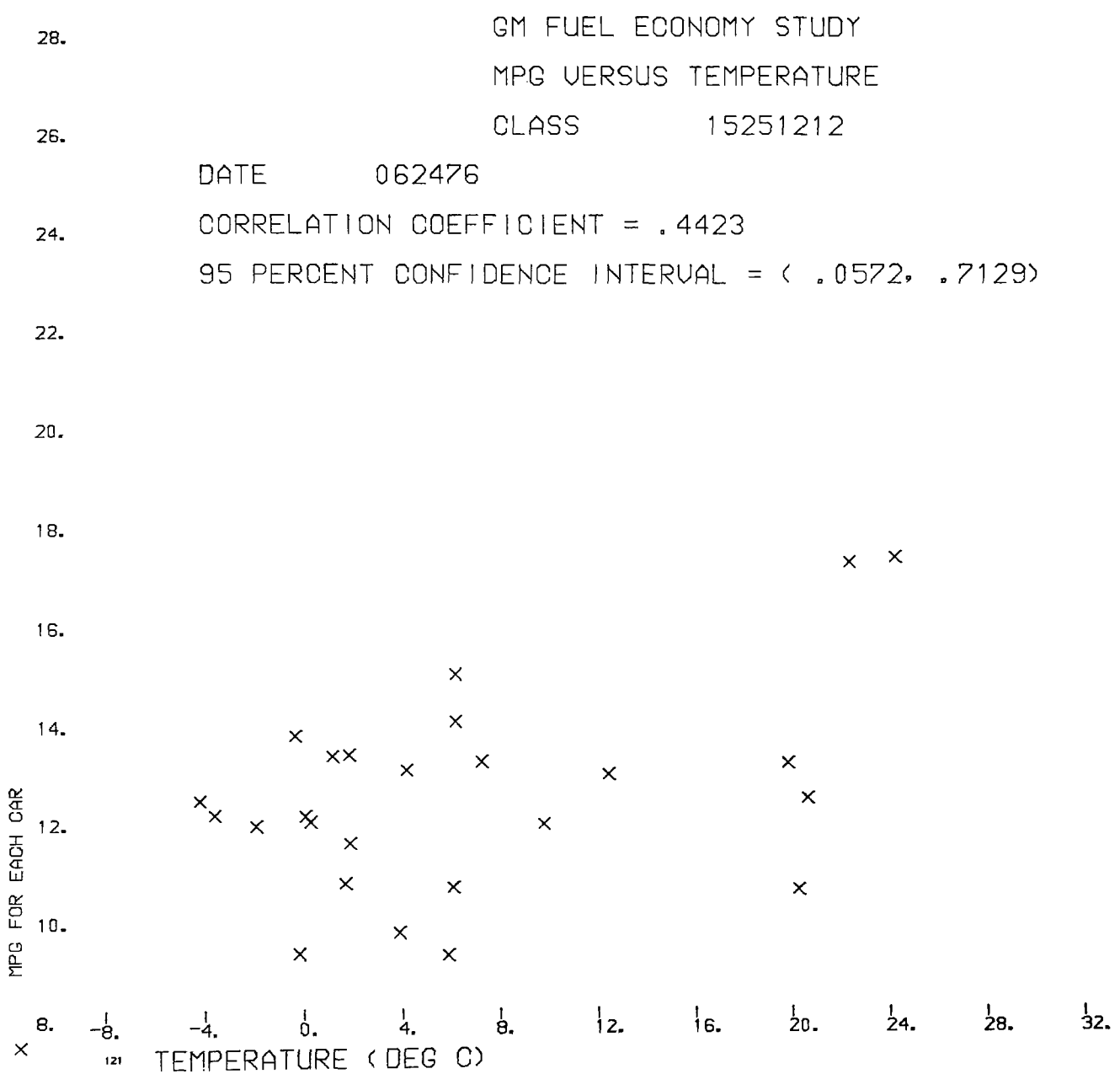
MPG VERSUS TEMPERATURE

CLASS 15251212

DATE 062476

CORRELATION COEFFICIENT = .4423

95 PERCENT CONFIDENCE INTERVAL = (.0572, .7129)



GM FUEL ECONOMY STUDY

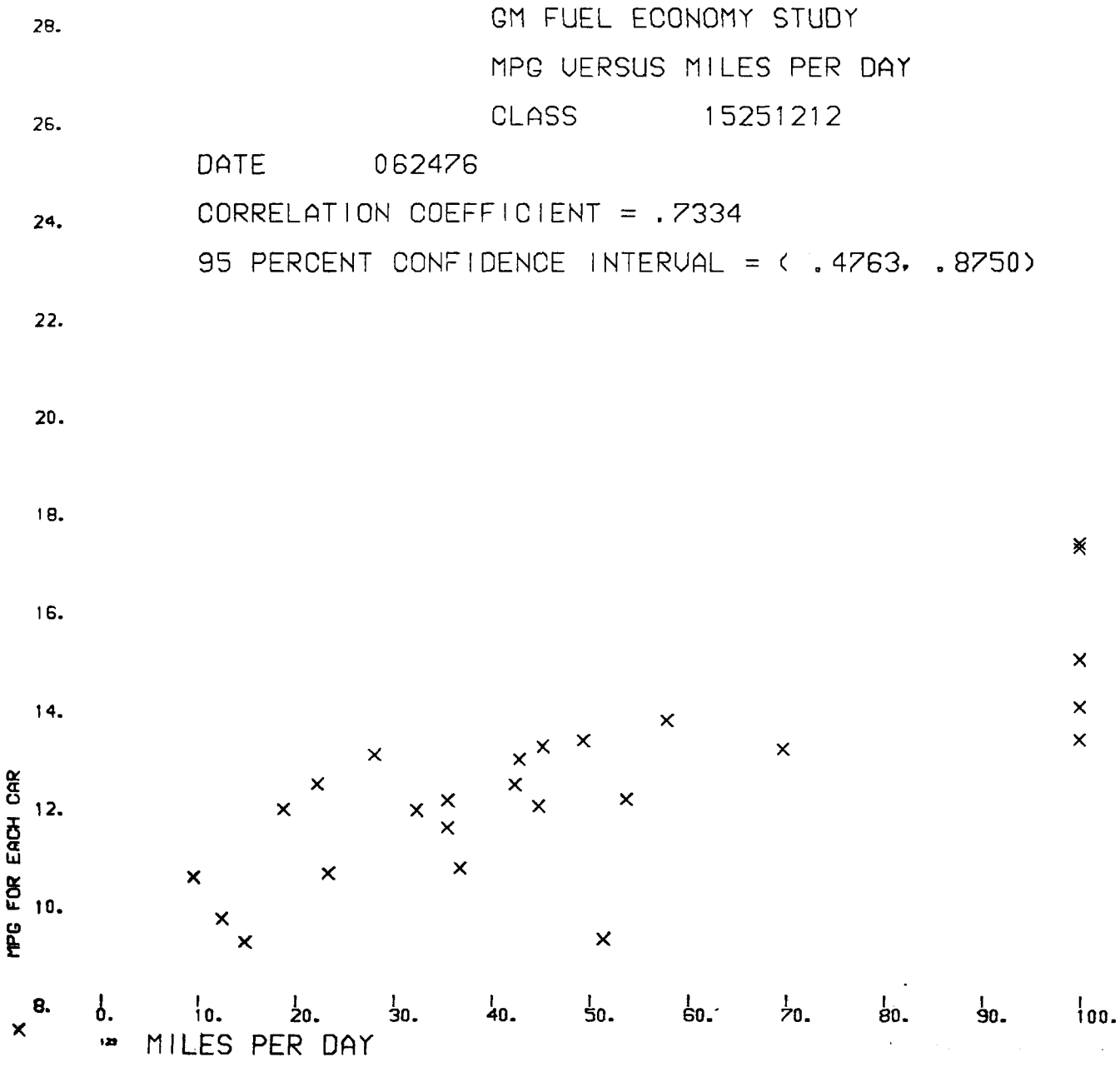
MPG VERSUS MILES PER DAY

CLASS 15251212

DATE 062476

CORRELATION COEFFICIENT = .7334

95 PERCENT CONFIDENCE INTERVAL = (.4763, .8750)



GM FUEL ECONOMY STUDY

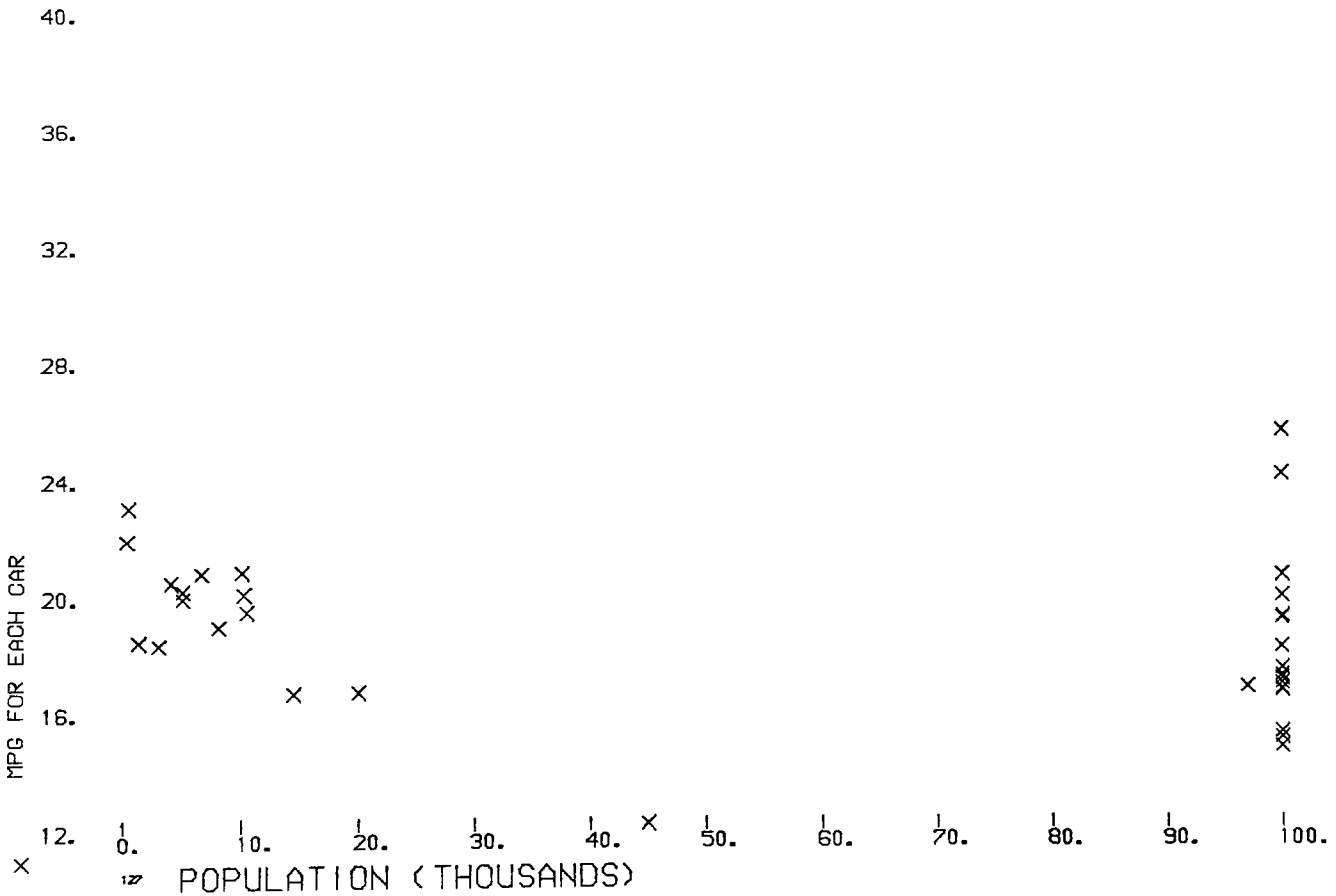
MPG VERSUS POPULATION

CLASS 23000313

DATE 062476

CORRELATION COEFFICIENT =-.2671

95 PERCENT CONFIDENCE INTERVAL = (-.5551, .0782)



GM FUEL ECONOMY STUDY

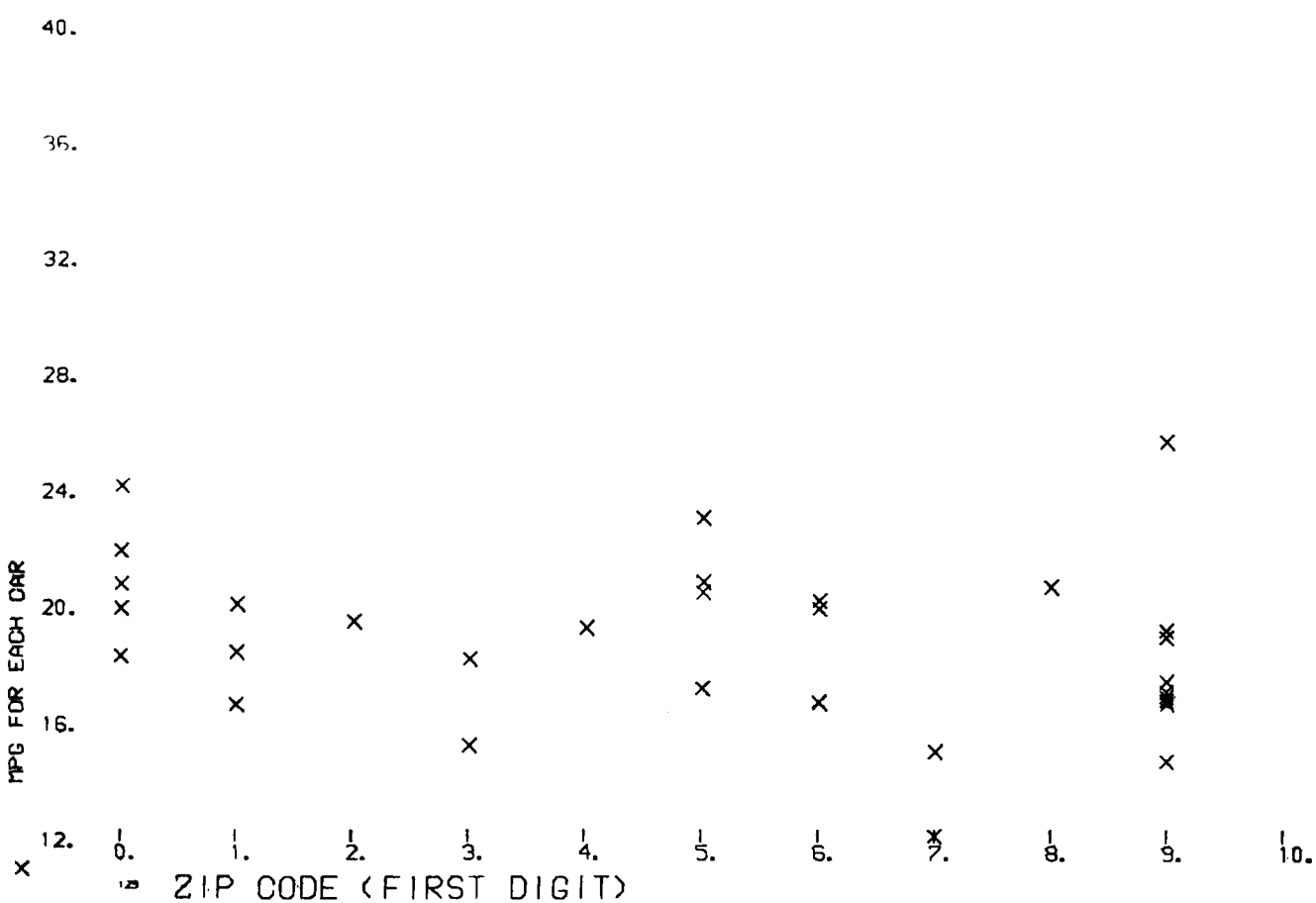
MPG VERSUS ZIP CODE

CLASS 23000313

DATE 062476

CORRELATION COEFFICIENT =-.2870

95 PERCENT CONFIDENCE INTERVAL = (-.5699, .0567)



GM FUEL ECONOMY STUDY

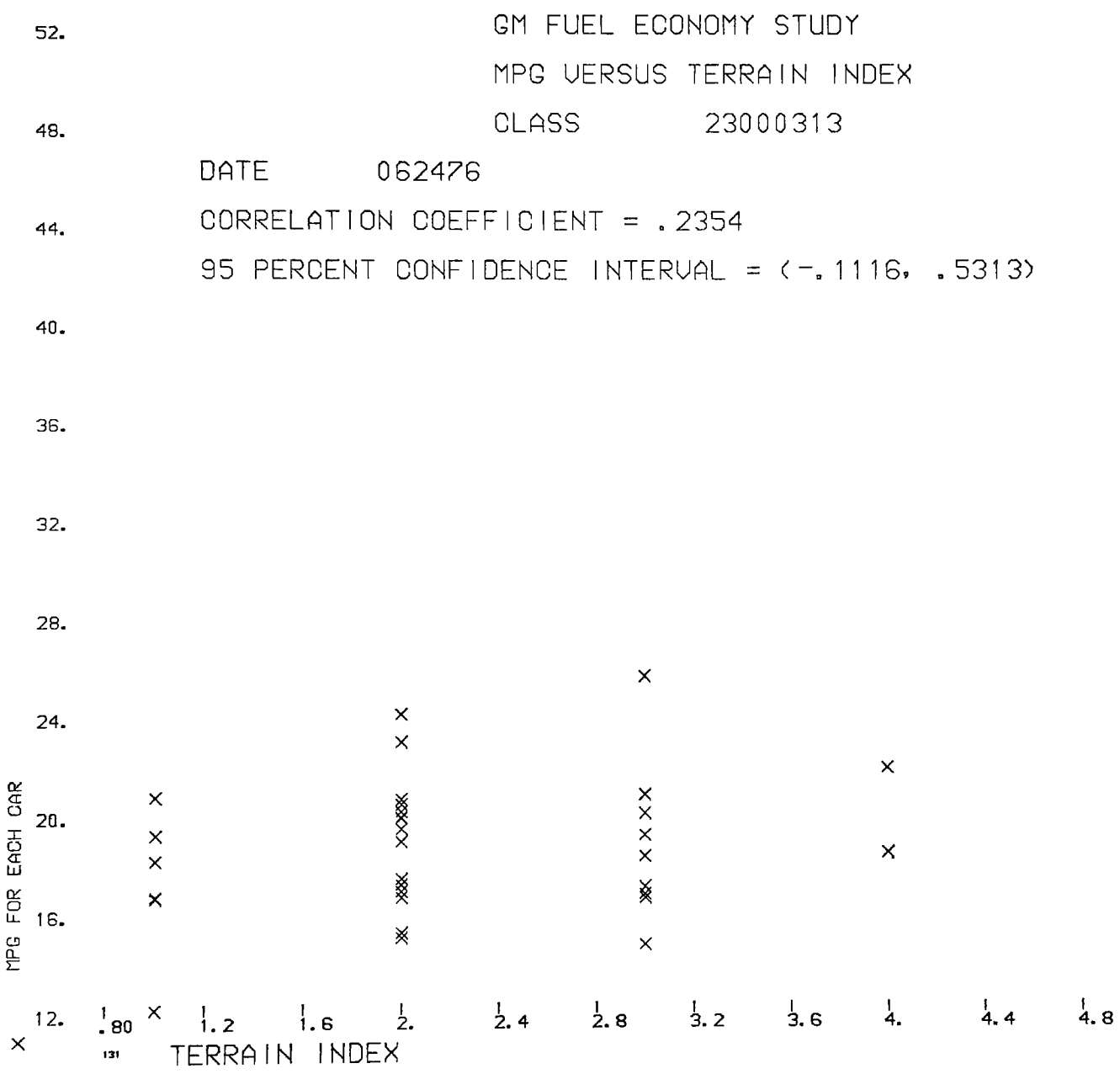
MPG VERSUS TERRAIN INDEX

CLASS 23000313

DATE 062476

CORRELATION COEFFICIENT = .2354

95 PERCENT CONFIDENCE INTERVAL = (-.1116, .5313)



GM FUEL ECONOMY STUDY

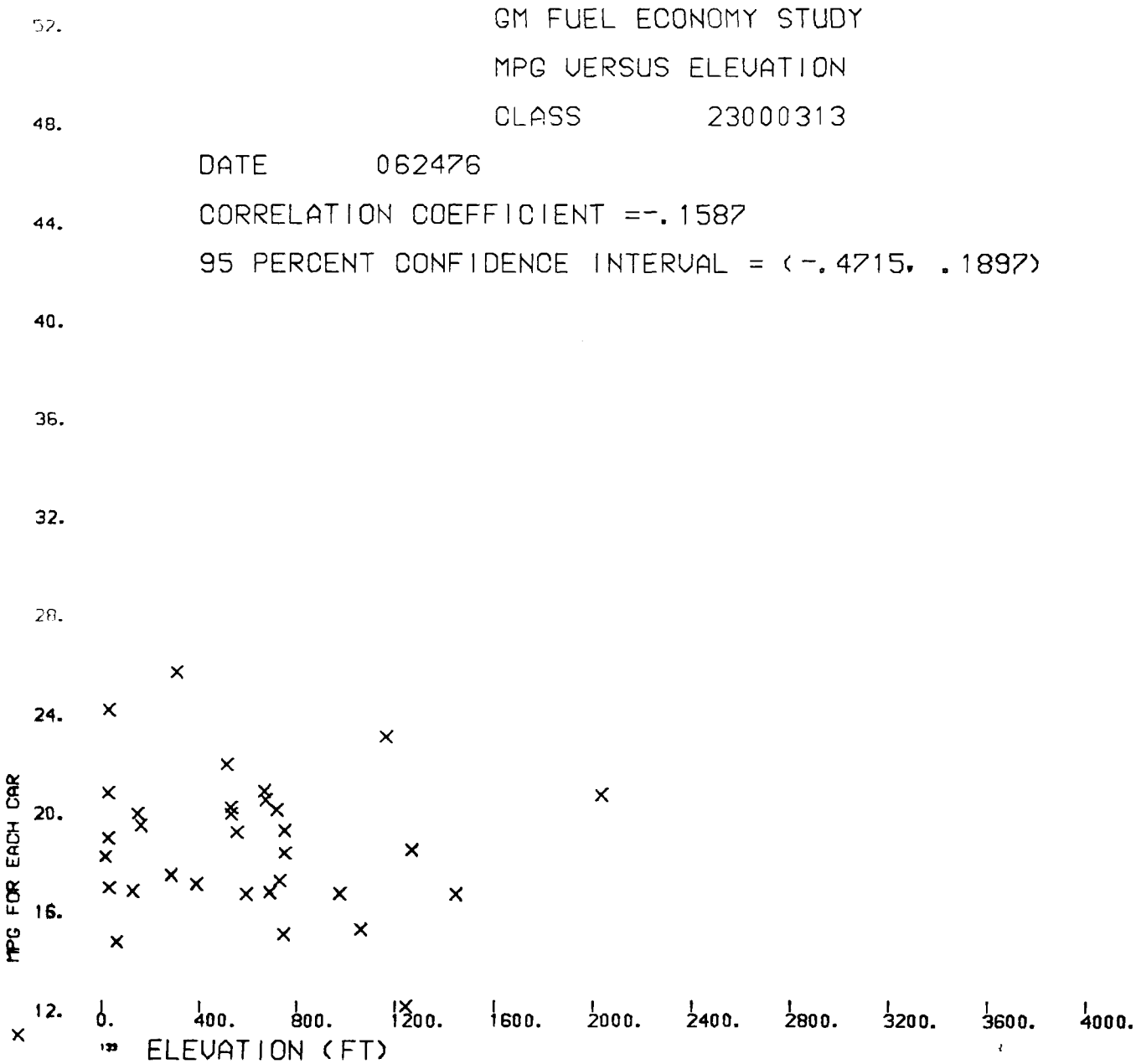
MPG VERSUS ELEVATION

CLASS 23000313

DATE 062476

CORRELATION COEFFICIENT =-.1587

95 PERCENT CONFIDENCE INTERVAL = (-.4715, .1897)



GM FUEL ECONOMY STUDY

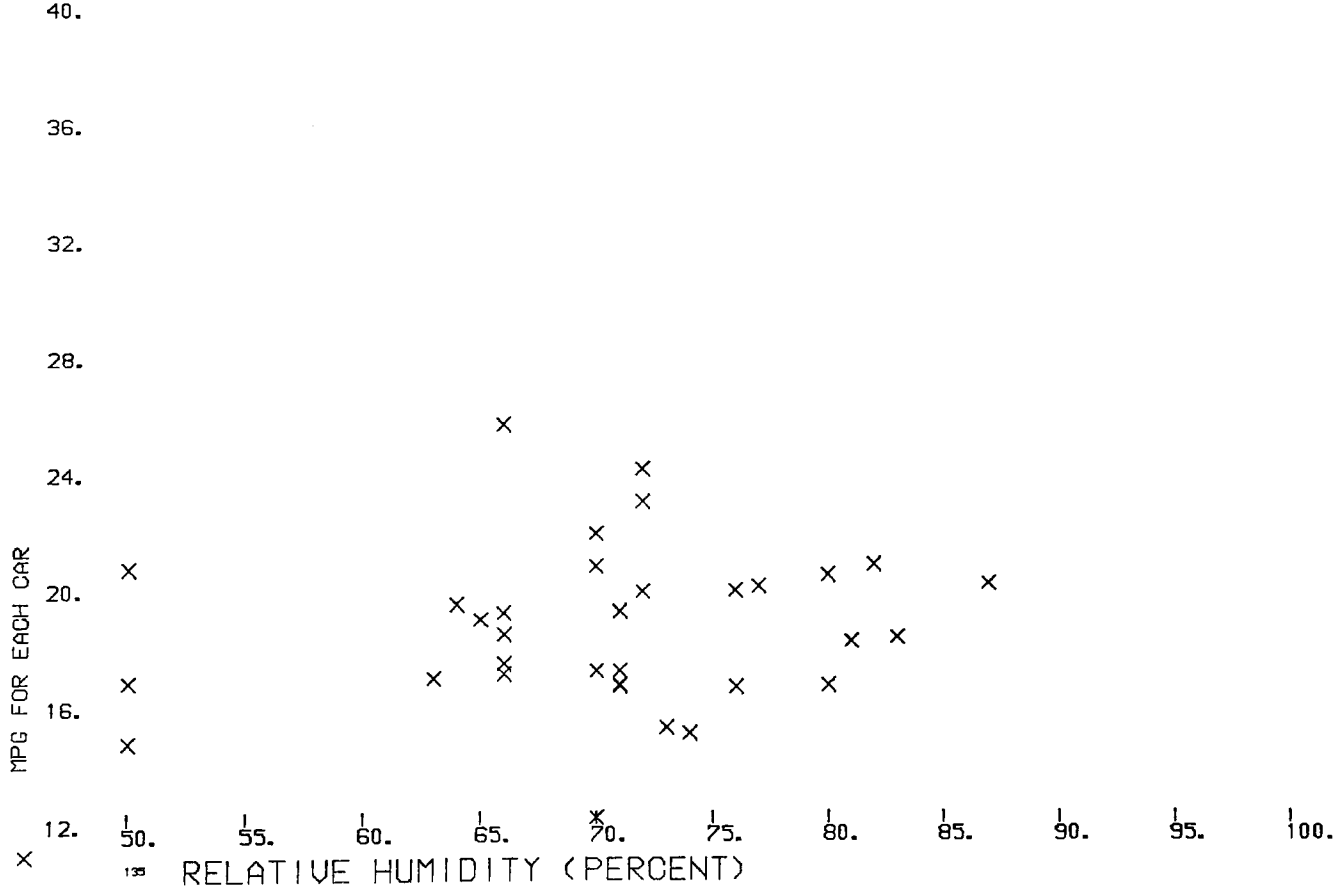
MPG VERSUS RELATIVE HUMIDITY

CLASS 23000313

DATE 062476

CORRELATION COEFFICIENT = .2165

95 PERCENT CONFIDENCE INTERVAL = (-.1313, .5168)



GM FUEL ECONOMY STUDY

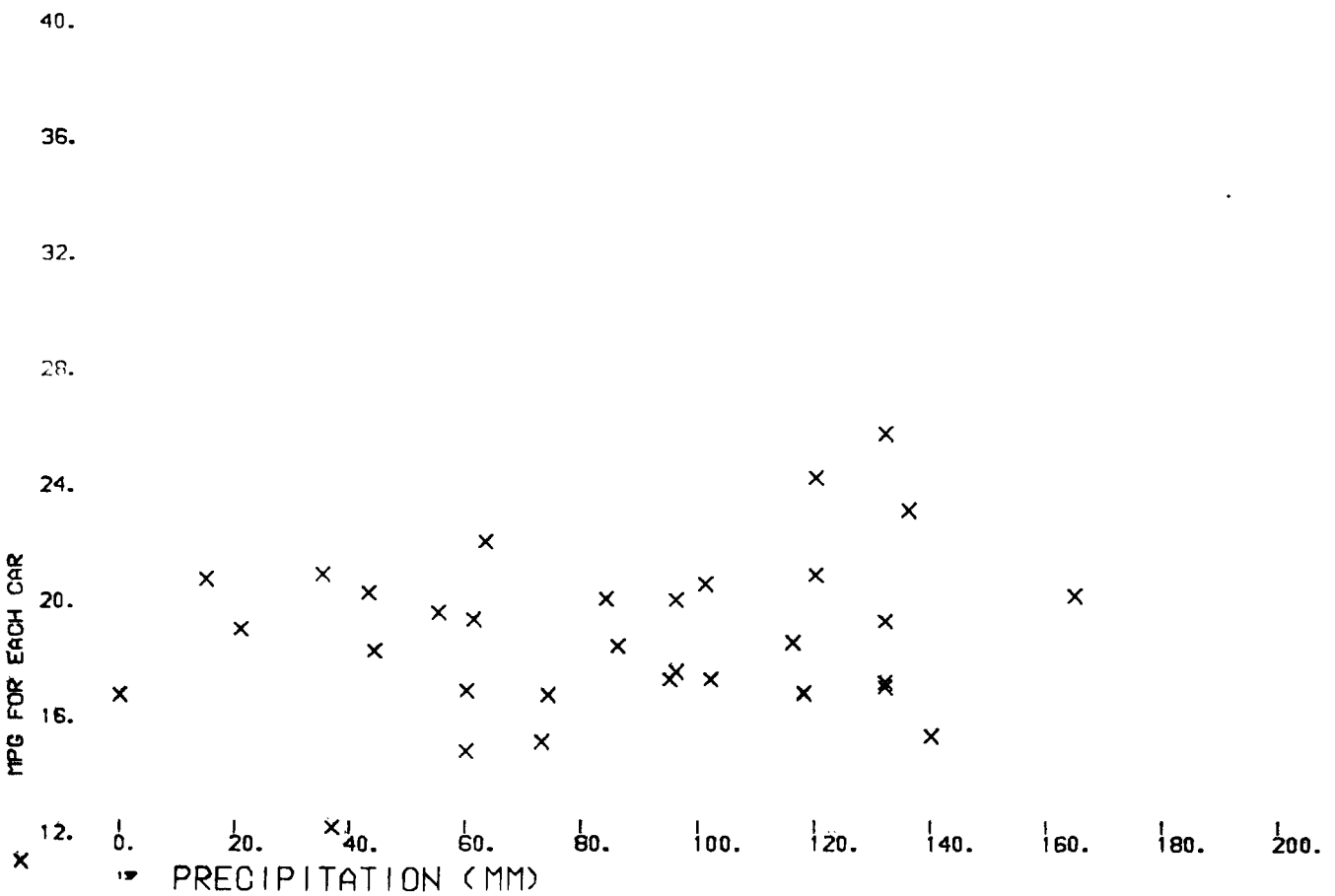
MPG VERSUS PRECIPITATION

CLASS 23000313

DATE 062476

CORRELATION COEFFICIENT = .1785

95 PERCENT CONFIDENCE INTERVAL = (-.1699, .4872)



GM FUEL ECONOMY STUDY

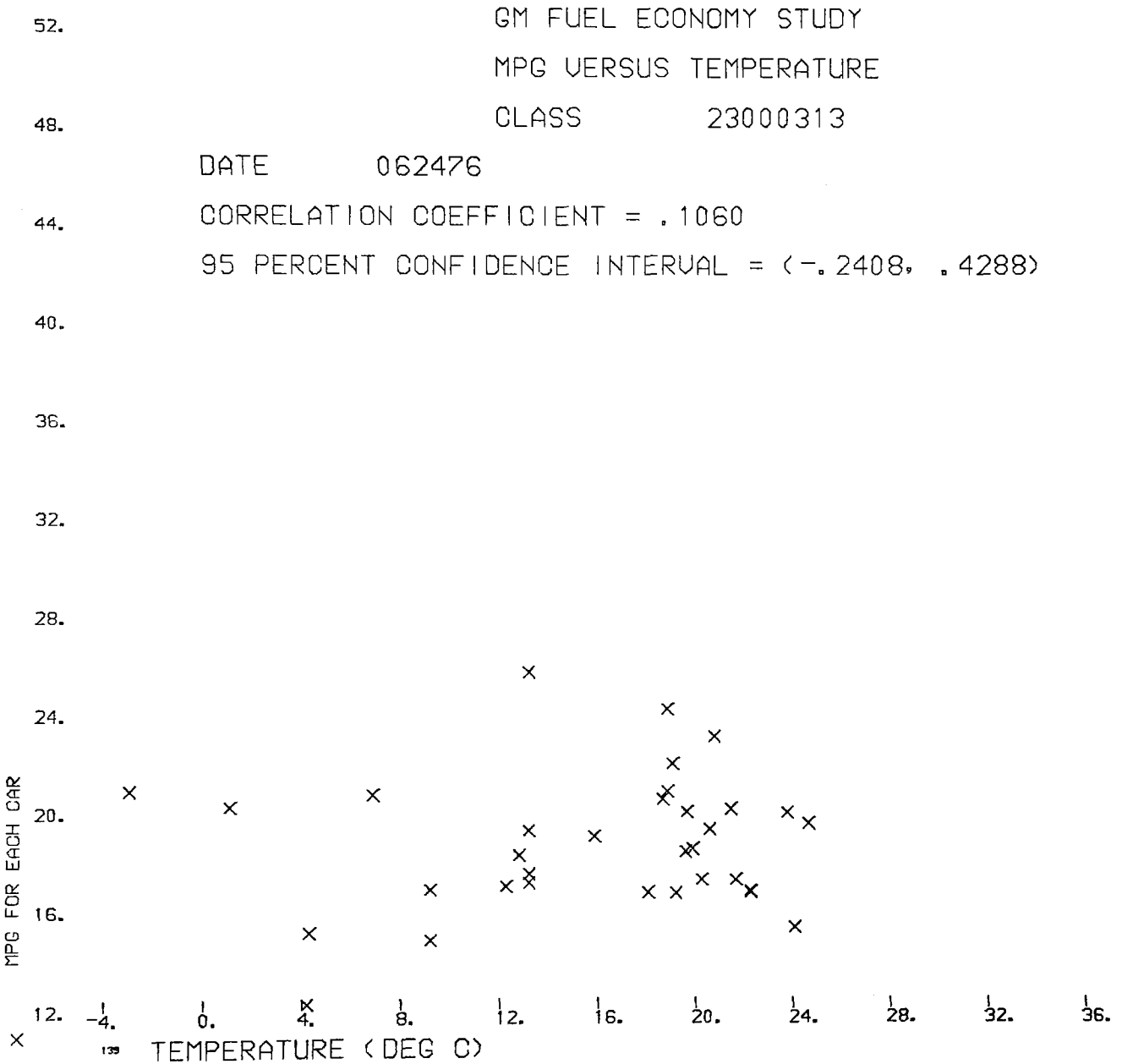
MPG VERSUS TEMPERATURE

CLASS 23000313

DATE 062476

CORRELATION COEFFICIENT = .1060

95 PERCENT CONFIDENCE INTERVAL = (-.2408, .4288)



GM FUEL ECONOMY STUDY

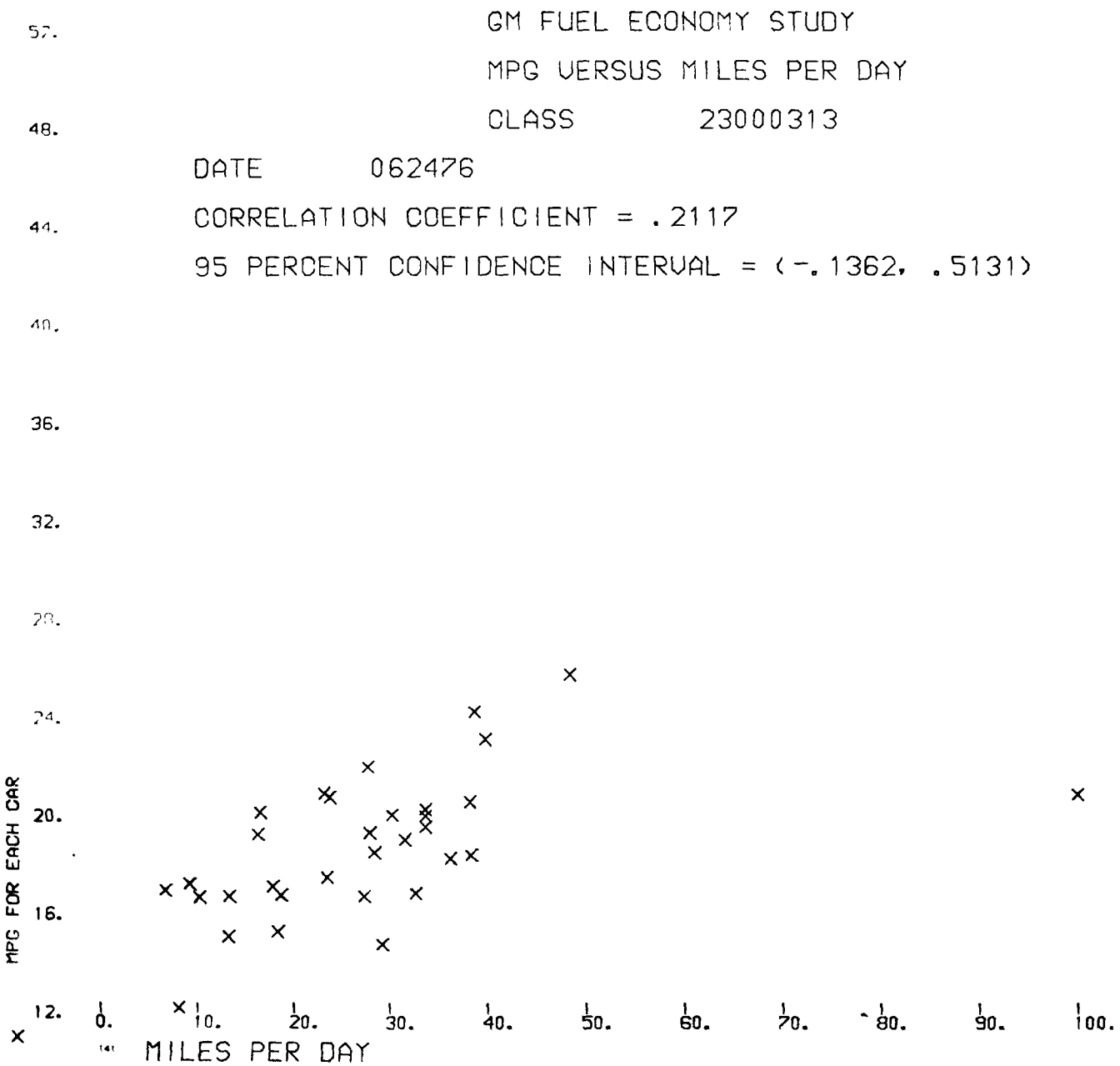
MPG VERSUS MILES PER DAY

CLASS 23000313

DATE 062476

CORRELATION COEFFICIENT = .2117

95 PERCENT CONFIDENCE INTERVAL = (-.1362, .5131)



GM FUEL ECONOMY STUDY

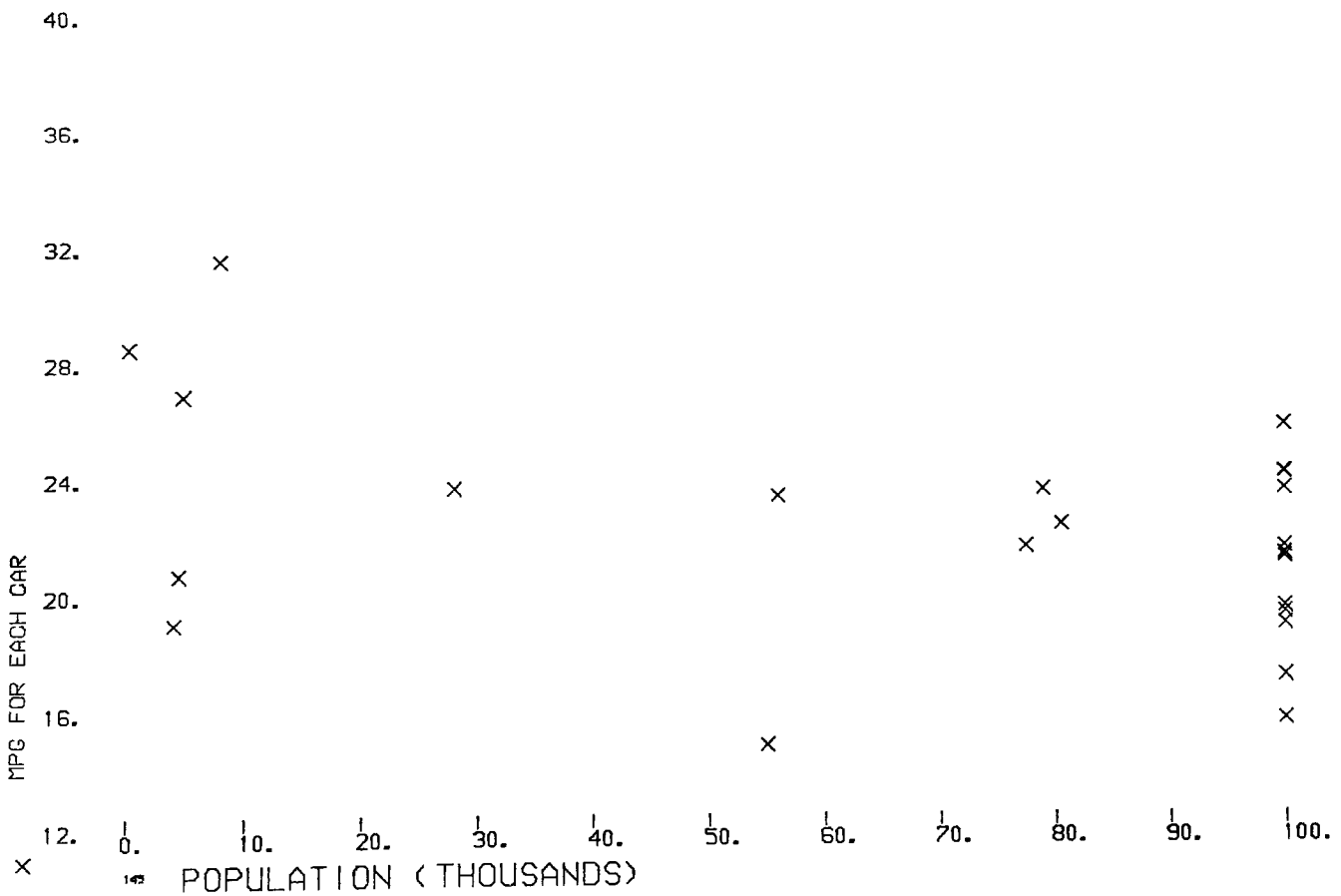
MPG VERSUS POPULATION

CLASS 23000323

DATE 062476

CORRELATION COEFFICIENT =-.1868

95 PERCENT CONFIDENCE INTERVAL = (-.5419, .2249)



GM FUEL ECONOMY STUDY

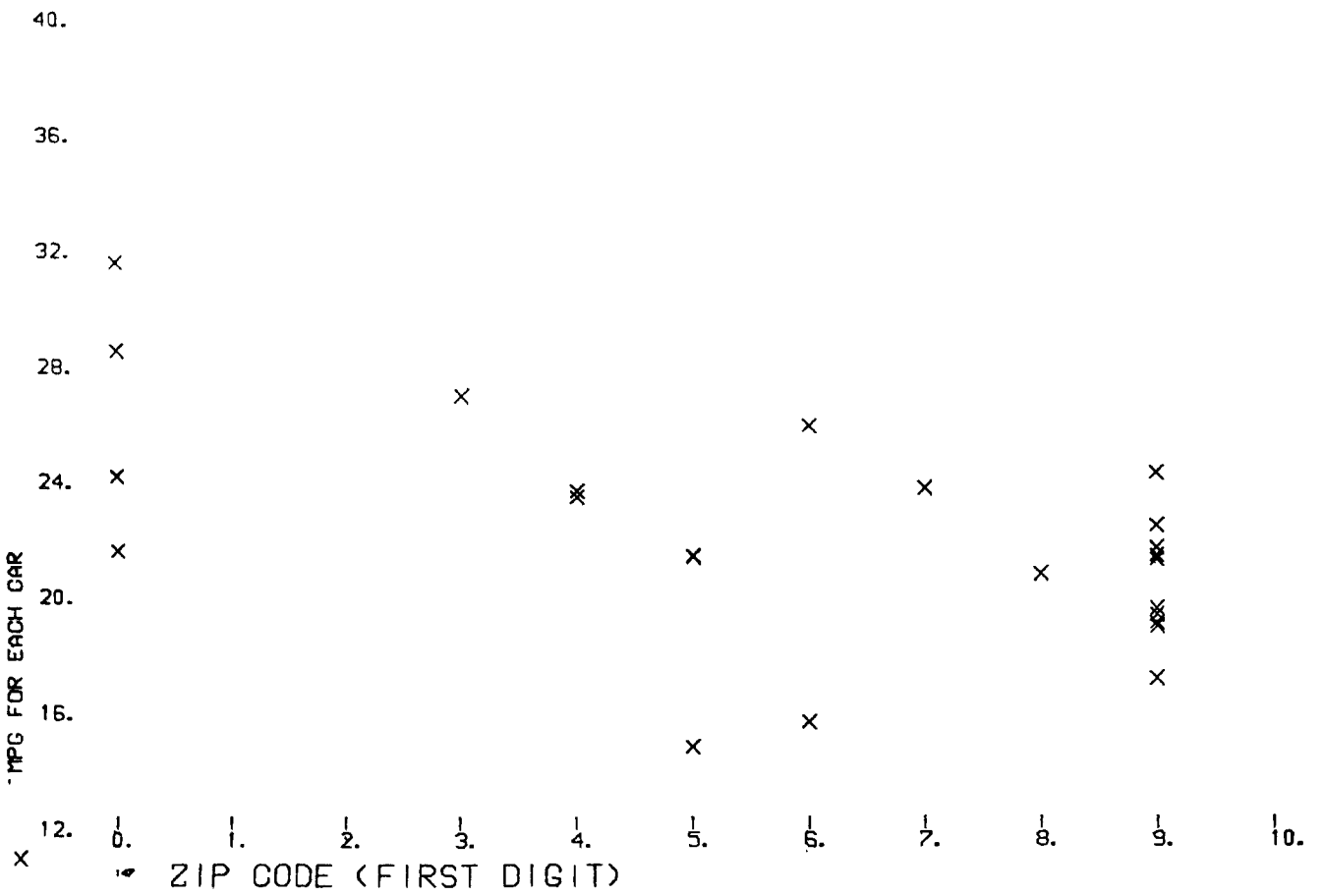
MPG VERSUS ZIP CODE

CLASS 23000323

DATE 062476

CORRELATION COEFFICIENT =-.5611

95 PERCENT CONFIDENCE INTERVAL = (-.7827, -.2133)



GM FUEL ECONOMY STUDY

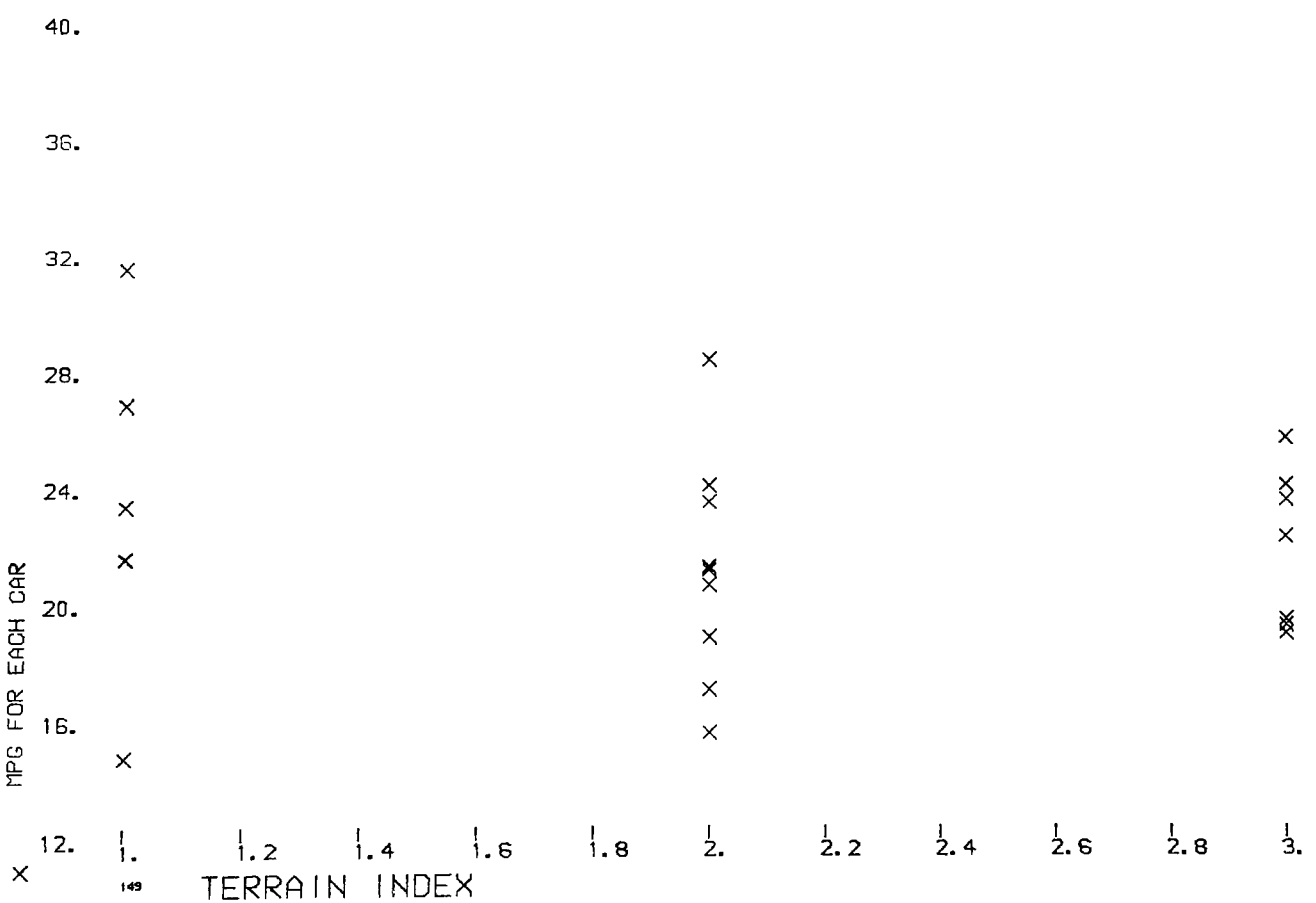
MPG VERSUS TERRAIN INDEX

CLASS 23000323

DATE 062476

CORRELATION COEFFICIENT =-.1183

95 PERCENT CONFIDENCE INTERVAL = (-.4905, .2904)



GM FUEL ECONOMY STUDY

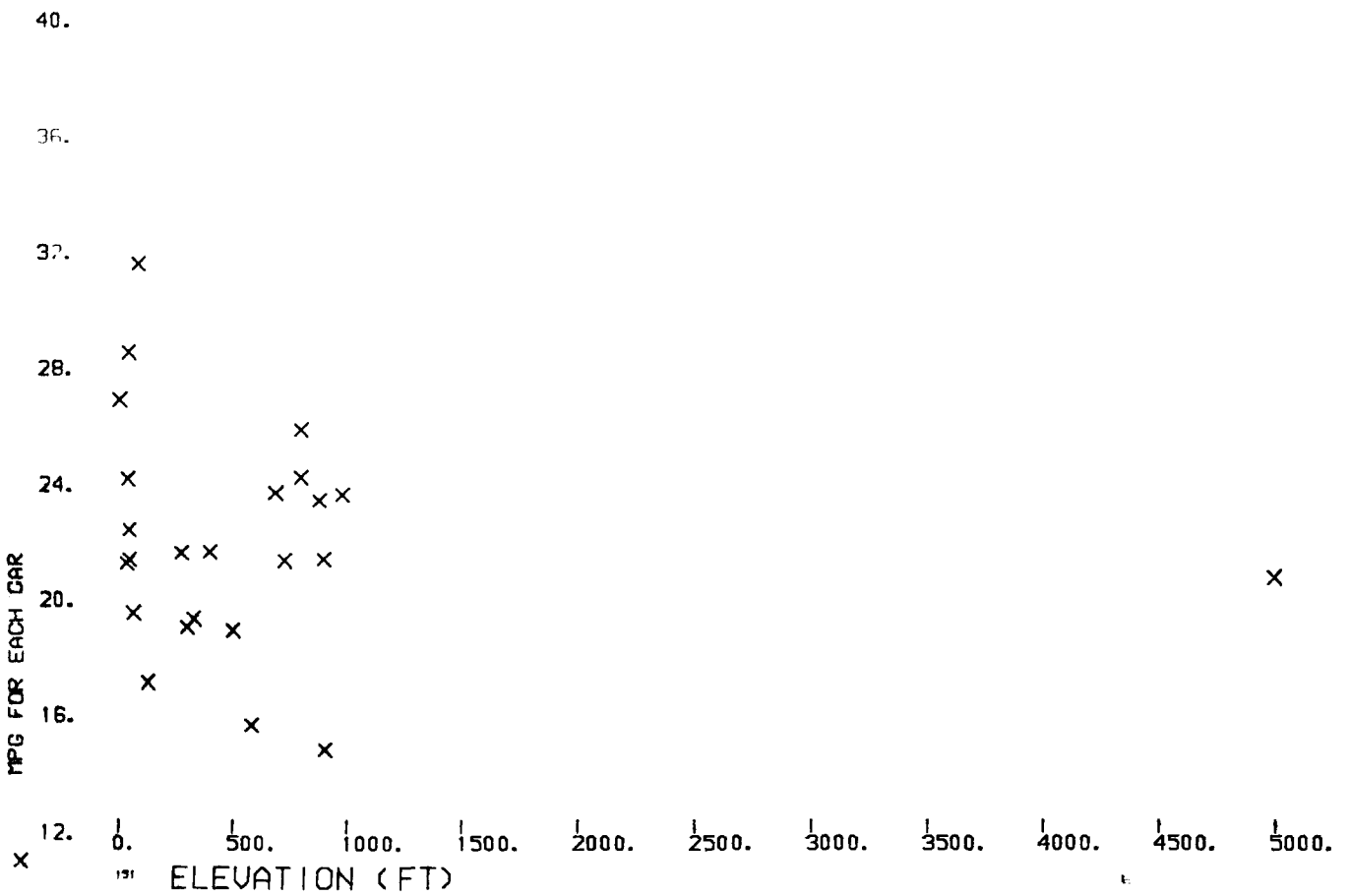
MPG VERSUS ELEVATION

CLASS 23000323

DATE 062476

CORRELATION COEFFICIENT =-.1132

95 PERCENT CONFIDENCE INTERVAL = (-.4866, .2951)



GM FUEL ECONOMY STUDY

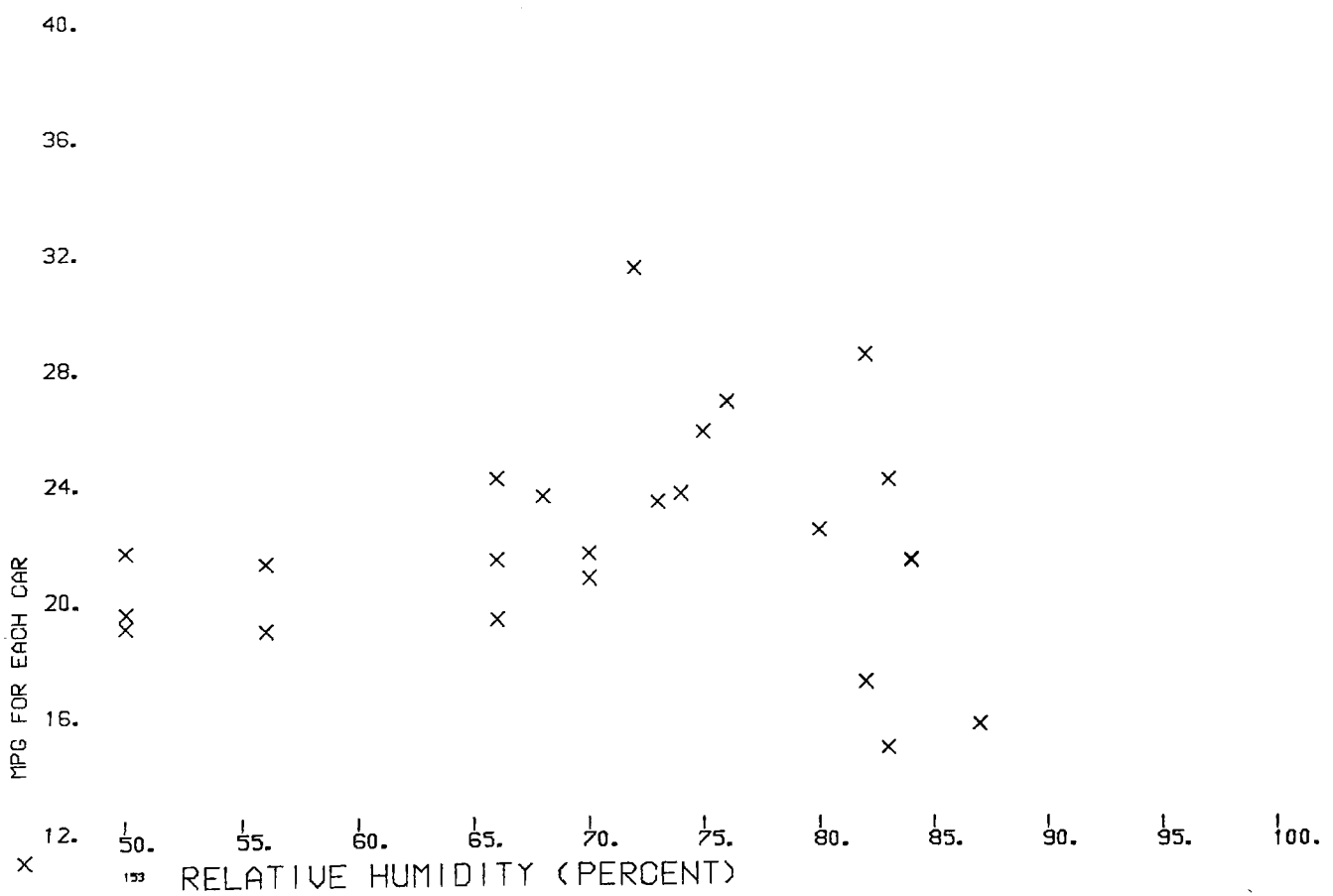
MPG VERSUS RELATIVE HUMIDITY

CLASS 23000323

DATE 062476

CORRELATION COEFFICIENT = .1718

95 PERCENT CONFIDENCE INTERVAL = (-.2396, .5309)



GM FUEL ECONOMY STUDY

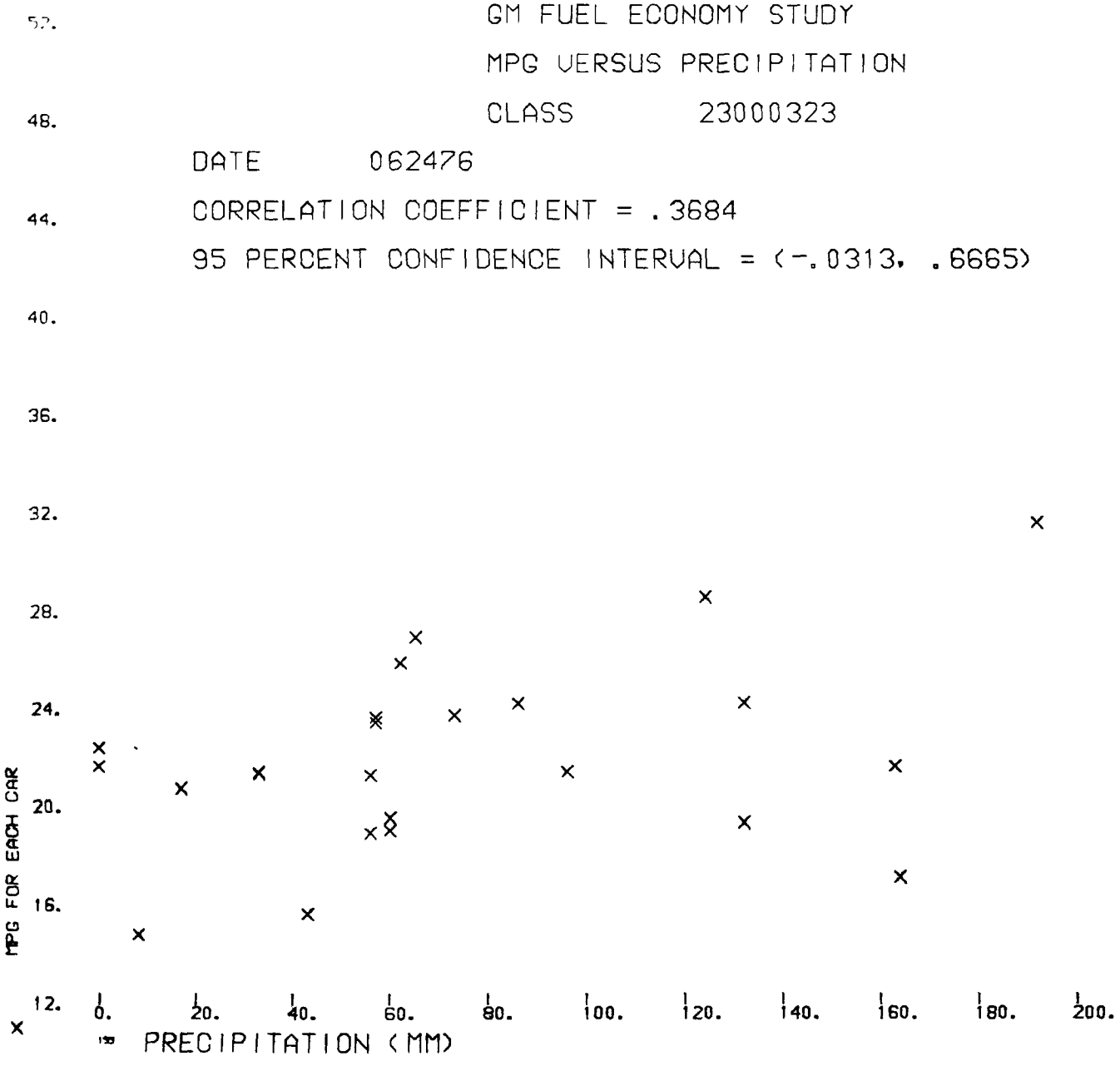
MPG VERSUS PRECIPITATION

CLASS 23000323

DATE 062476

CORRELATION COEFFICIENT = .3684

95 PERCENT CONFIDENCE INTERVAL = (-.0313, .6665)



GM FUEL ECONOMY STUDY

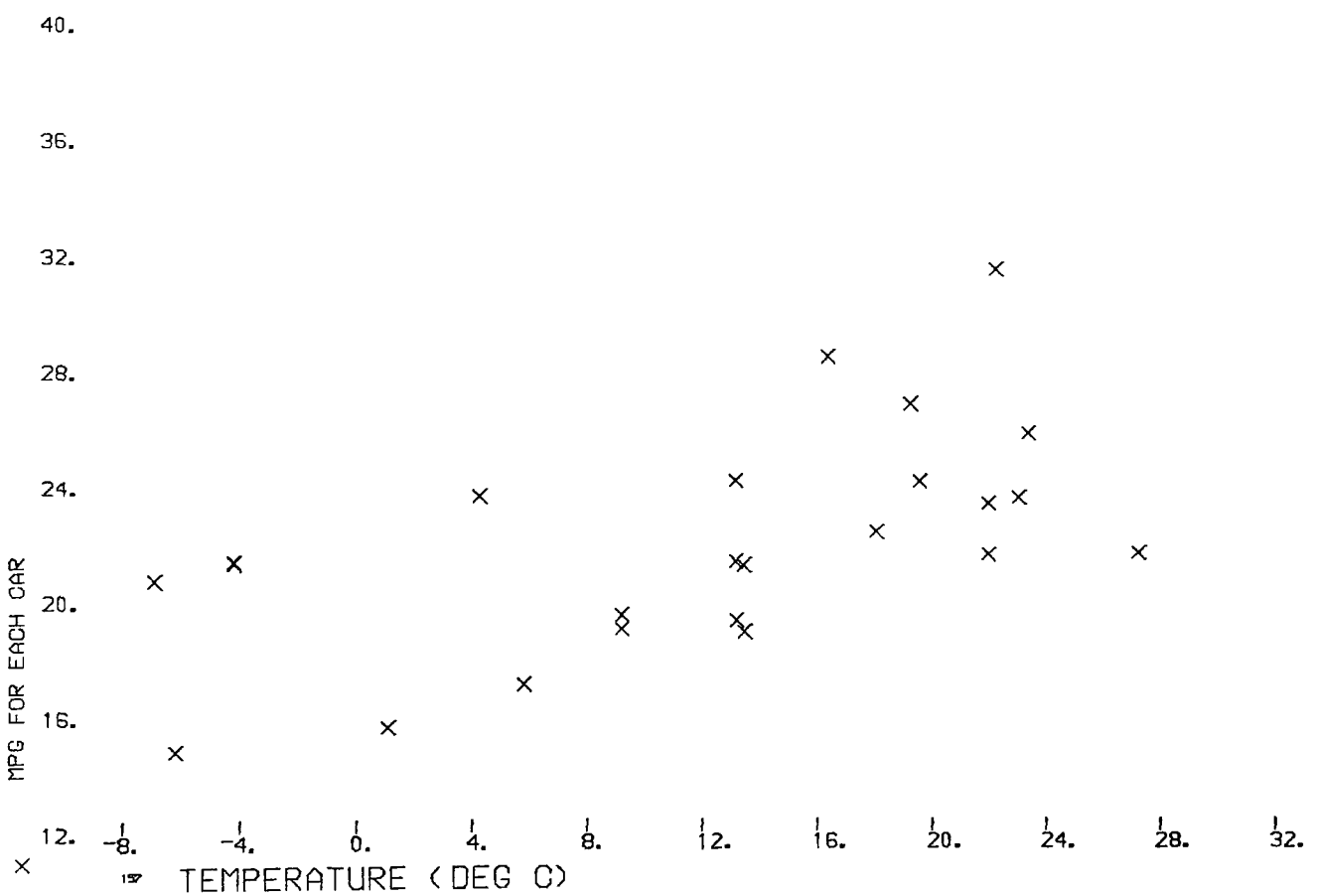
MPG VERSUS TEMPERATURE

CLASS 23000323

DATE 062476

CORRELATION COEFFICIENT = .5751

95 PERCENT CONFIDENCE INTERVAL = (.2329, .7906)



GM FUEL ECONOMY STUDY

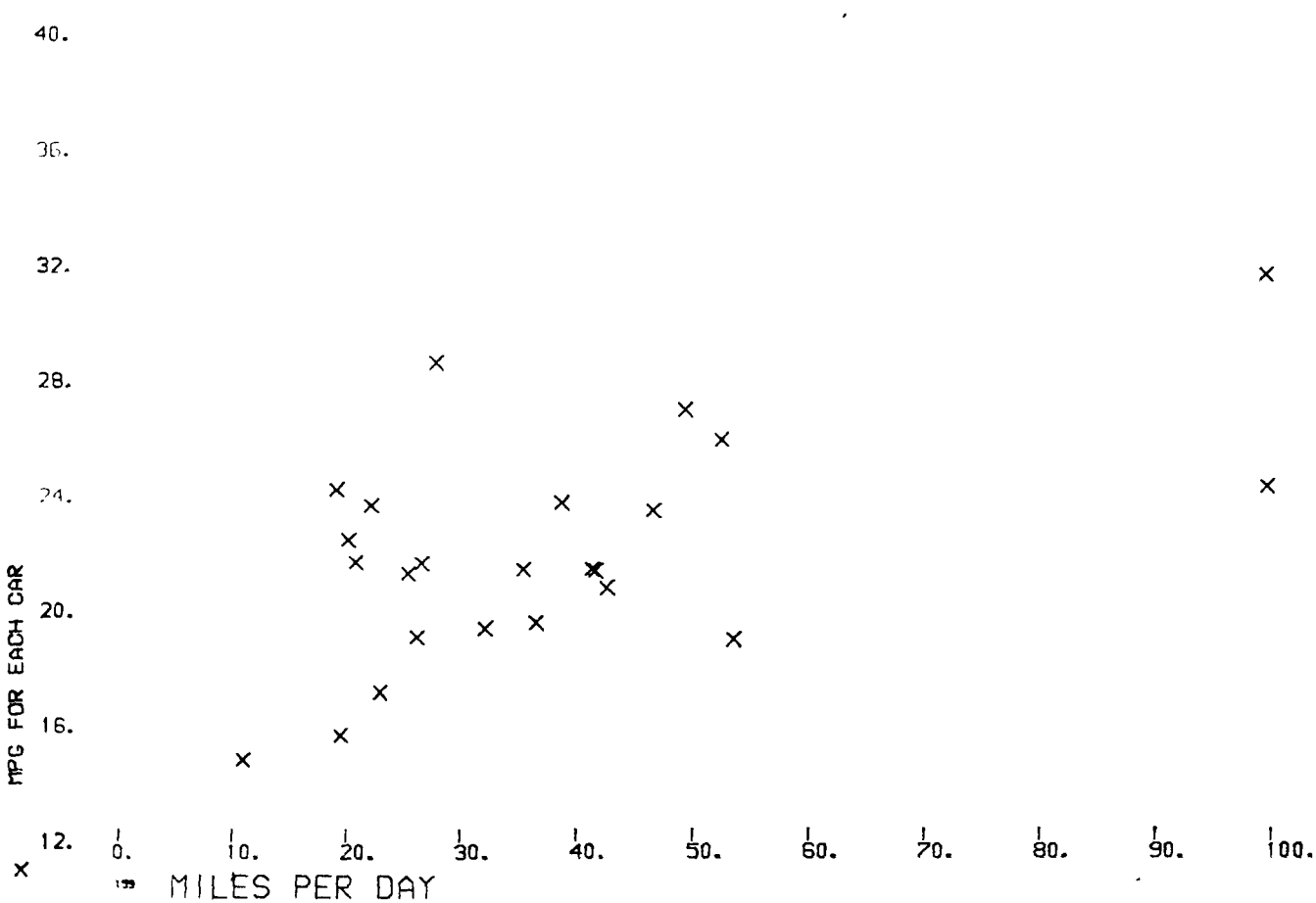
MPG VERSUS MILES PER DAY

CLASS 23000323

DATE 062476

CORRELATION COEFFICIENT = .5768

95 PERCENT CONFIDENCE INTERVAL = (.2353, .7915)



GM FUEL ECONOMY STUDY

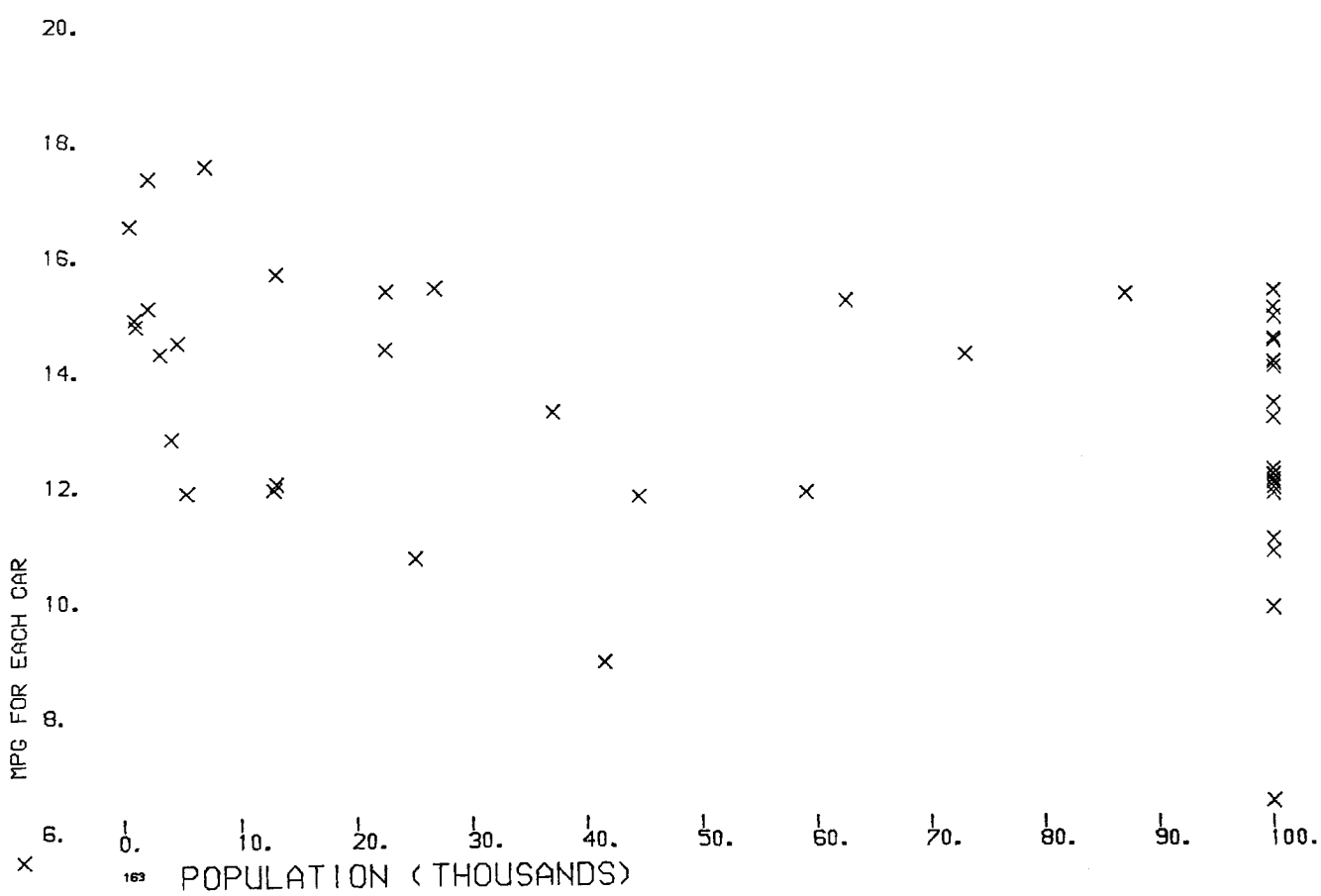
MPG VERSUS POPULATION

CLASS 24000911

DATE 062476

CORRELATION COEFFICIENT =-.1326

95 PERCENT CONFIDENCE INTERVAL = (-.4016, .1574)



GM FUEL ECONOMY STUDY

MPG VERSUS ZIP CODE

CLASS 24000911

DATE 062476

CORRELATION COEFFICIENT = .2531

95 PERCENT CONFIDENCE INTERVAL = (-.0335, .5012)

GM FUEL ECONOMY STUDY

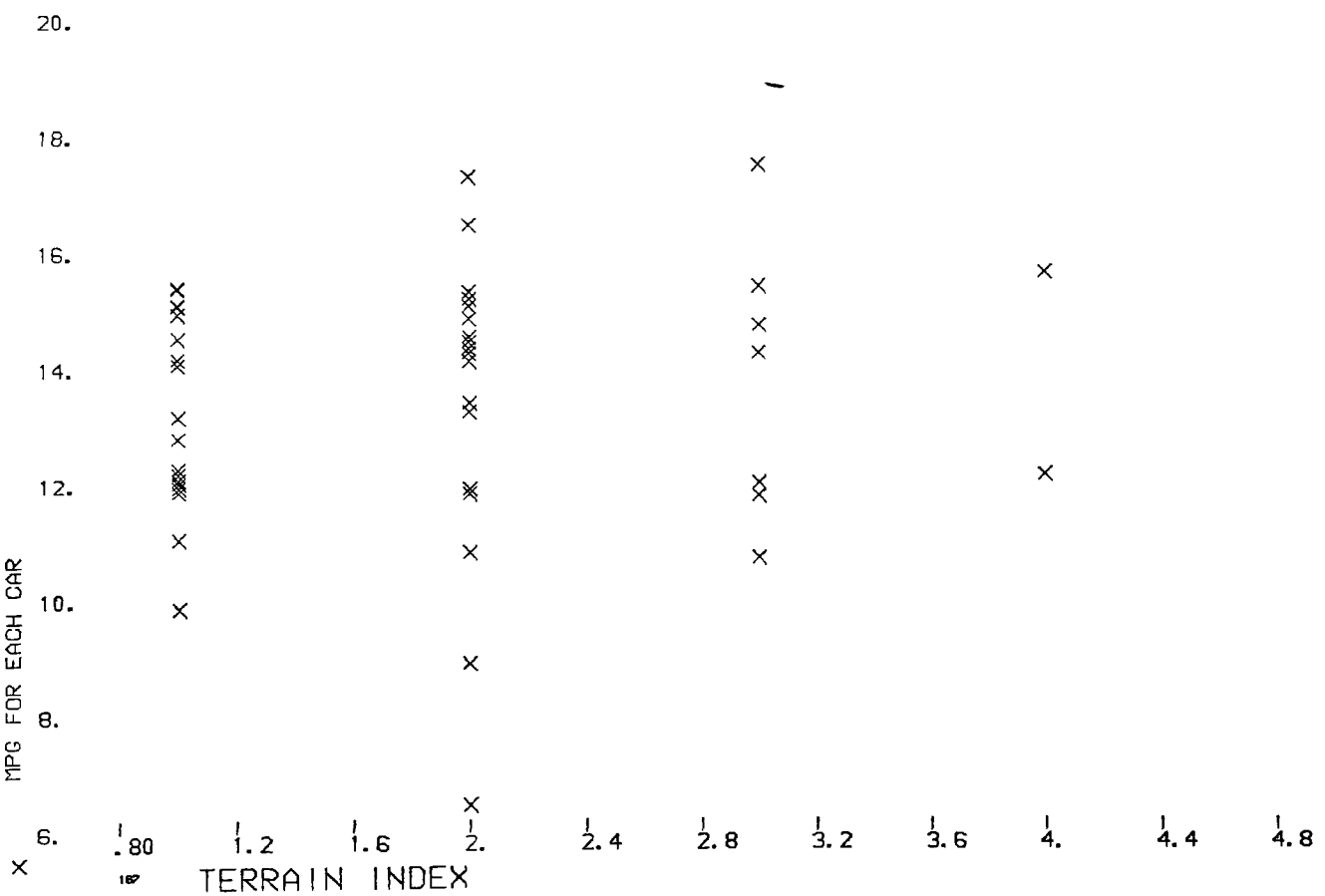
MPG VERSUS TERRAIN INDEX

CLASS 24000911

DATE 062476

CORRELATION COEFFICIENT = .1110

95 PERCENT CONFIDENCE INTERVAL = (-.1788, .3830)



GM FUEL ECONOMY STUDY

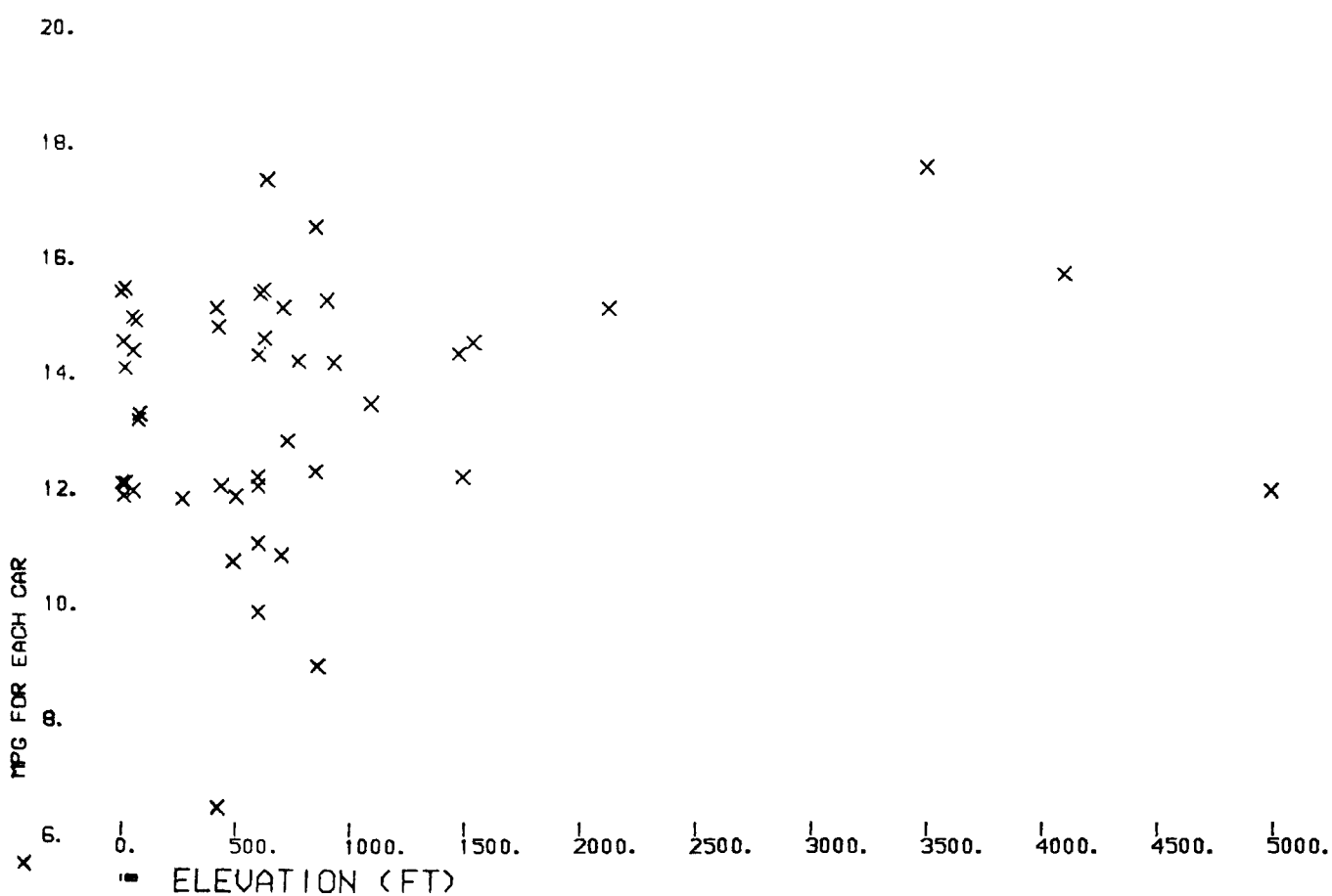
MPG VERSUS ELEVATION

CLASS 24000911

DATE 062476

CORRELATION COEFFICIENT = .1378

95 PERCENT CONFIDENCE INTERVAL = (-.1523, .4060)



GM FUEL ECONOMY STUDY

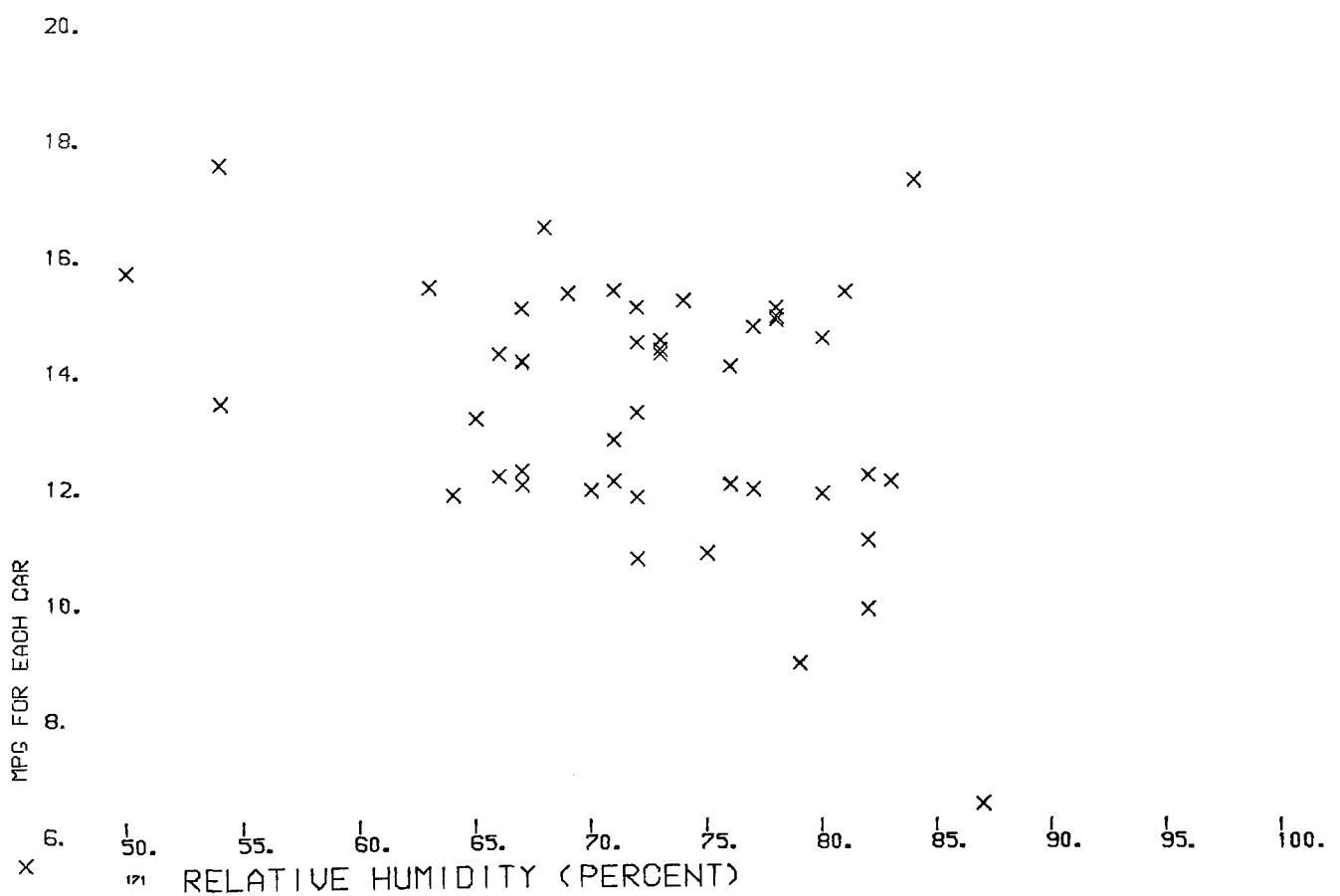
MPG VERSUS RELATIVE HUMIDITY

CLASS 24000911

DATE 062476

CORRELATION COEFFICIENT =-.3573

95 PERCENT CONFIDENCE INTERVAL = (-.5823,-.0815)



GM FUEL ECONOMY STUDY

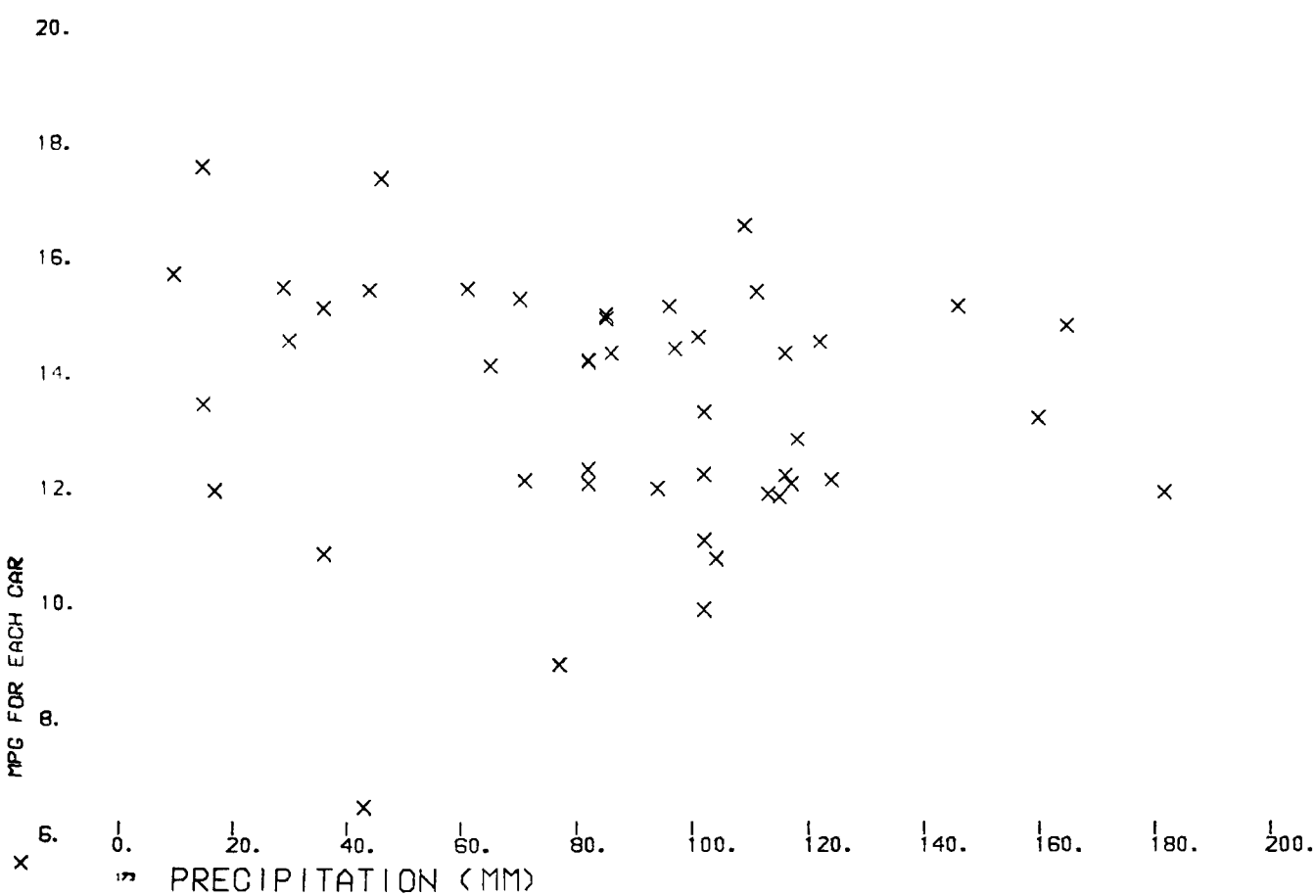
MPG VERSUS PRECIPITATION

CLASS 24000911

DATE 062476

CORRELATION COEFFICIENT =-.1518

95 PERCENT CONFIDENCE INTERVAL = (-.4179, .1383)



GM FUEL ECONOMY STUDY

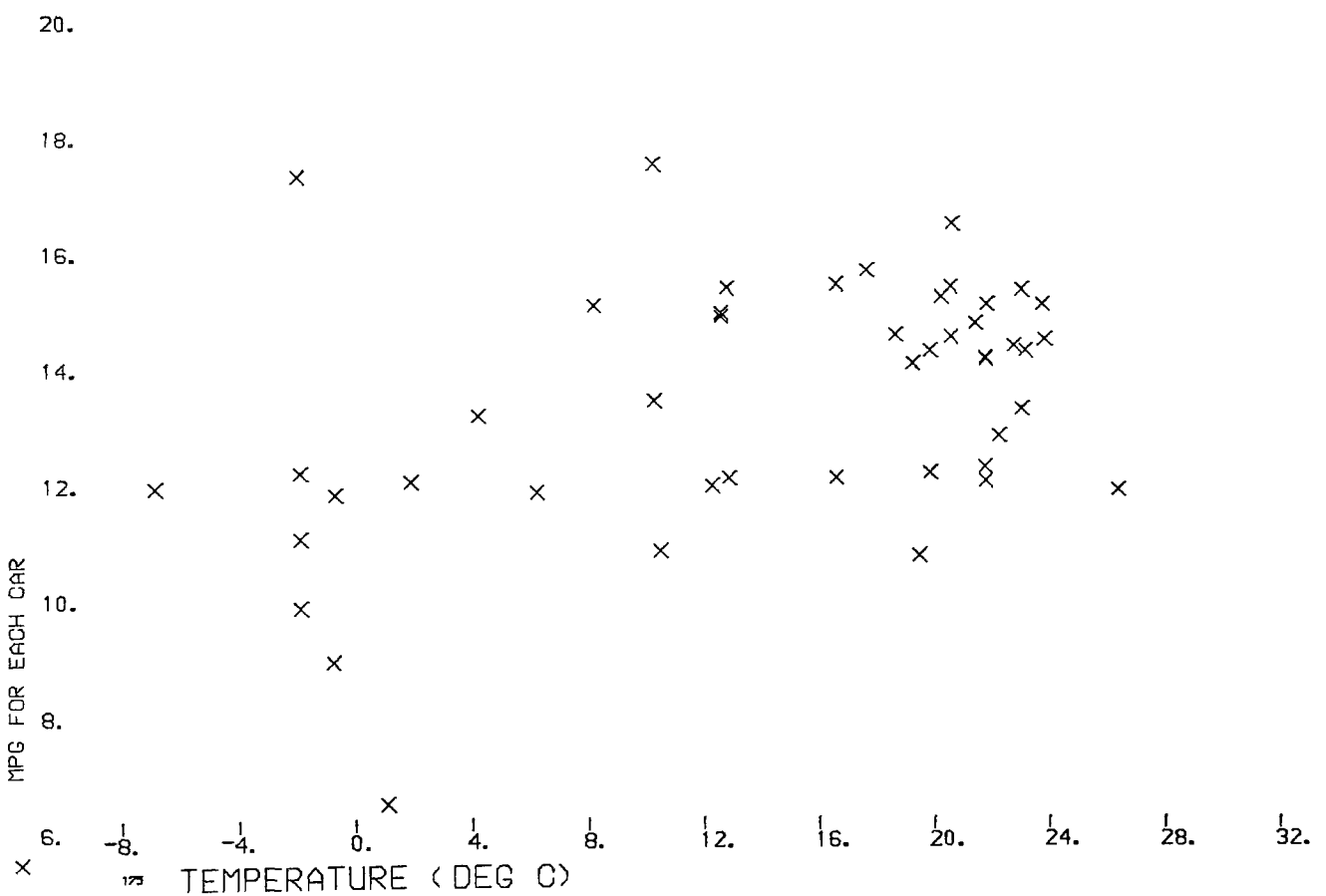
MPG VERSUS TEMPERATURE

CLASS 24000911

DATE 062476

CORRELATION COEFFICIENT = .3960

95 PERCENT CONFIDENCE INTERVAL = (.1261, .6114)



GM FUEL ECONOMY STUDY

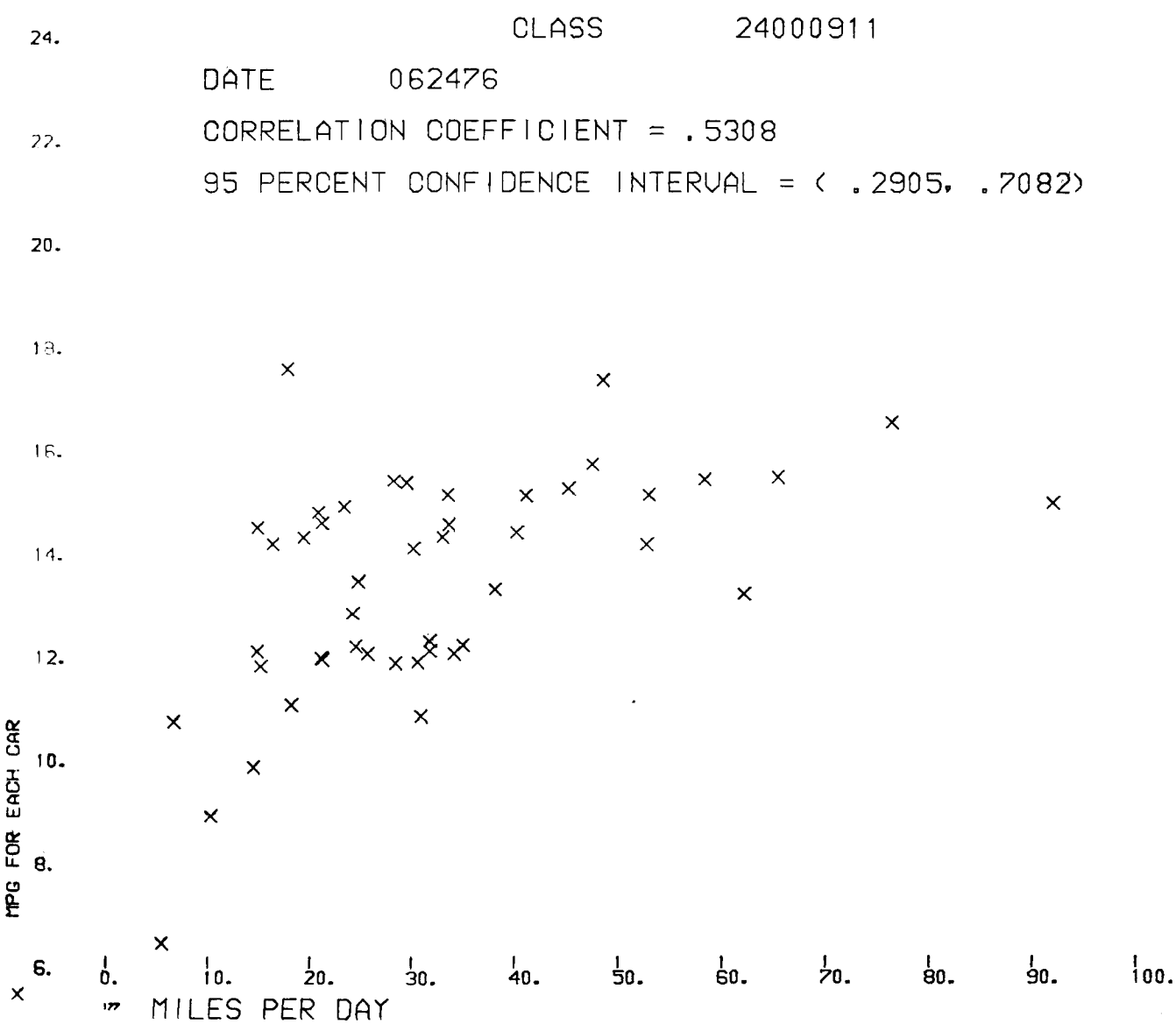
MPG VERSUS MILES PER DAY

CLASS 24000911

DATE 062476

CORRELATION COEFFICIENT = .5308

95 PERCENT CONFIDENCE INTERVAL = (.2905, .7082)



GM FUEL ECONOMY STUDY

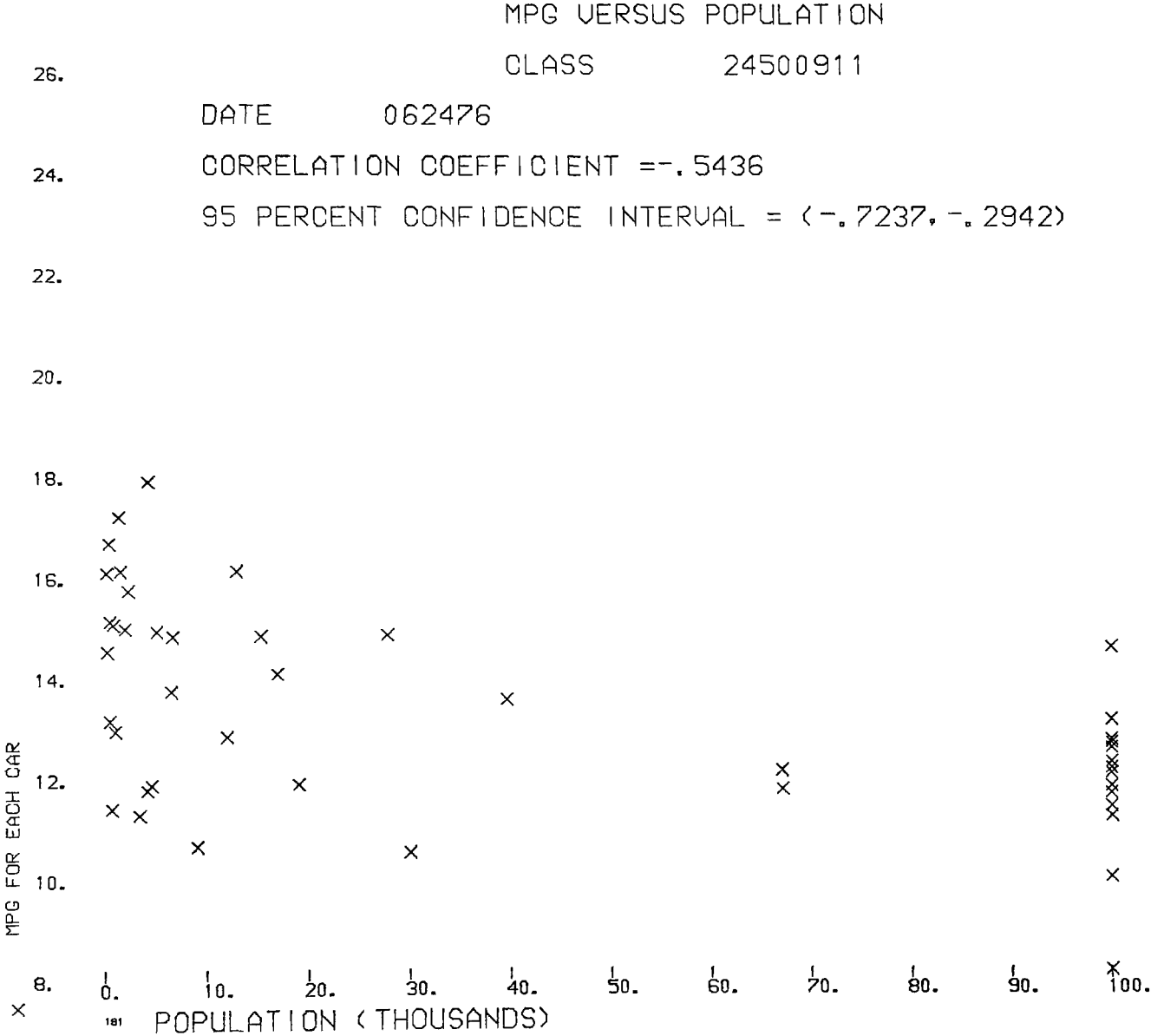
MPG VERSUS POPULATION

CLASS 24500911

DATE 062476

CORRELATION COEFFICIENT =-.5436

95 PERCENT CONFIDENCE INTERVAL = (-.7237, -.2942)



GM FUEL ECONOMY STUDY

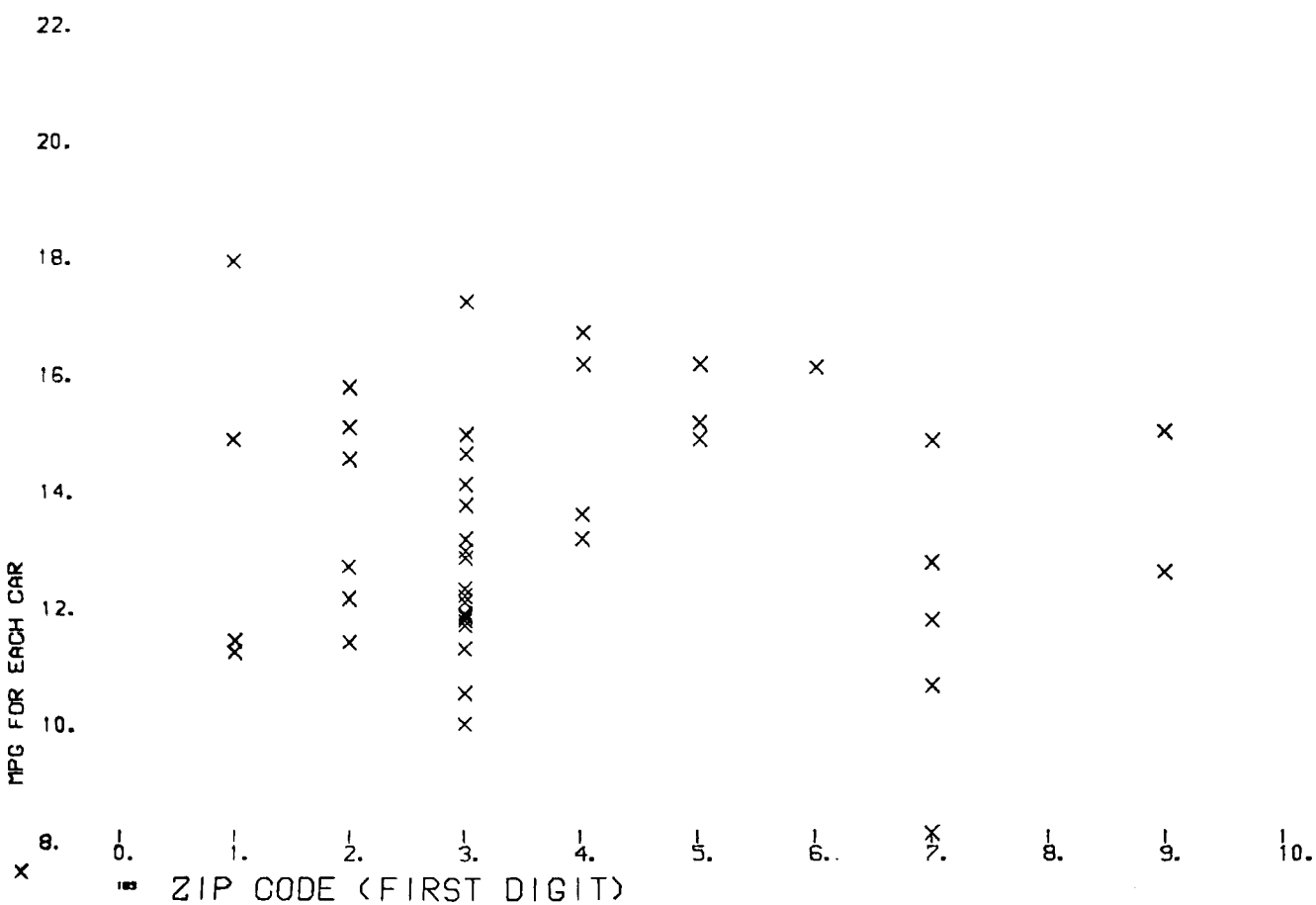
MPG VERSUS ZIP CODE

CLASS 24500911

DATE 062476

CORRELATION COEFFICIENT =-.0377

95 PERCENT CONFIDENCE INTERVAL = (-.3309, .2621)



GM FUEL ECONOMY STUDY

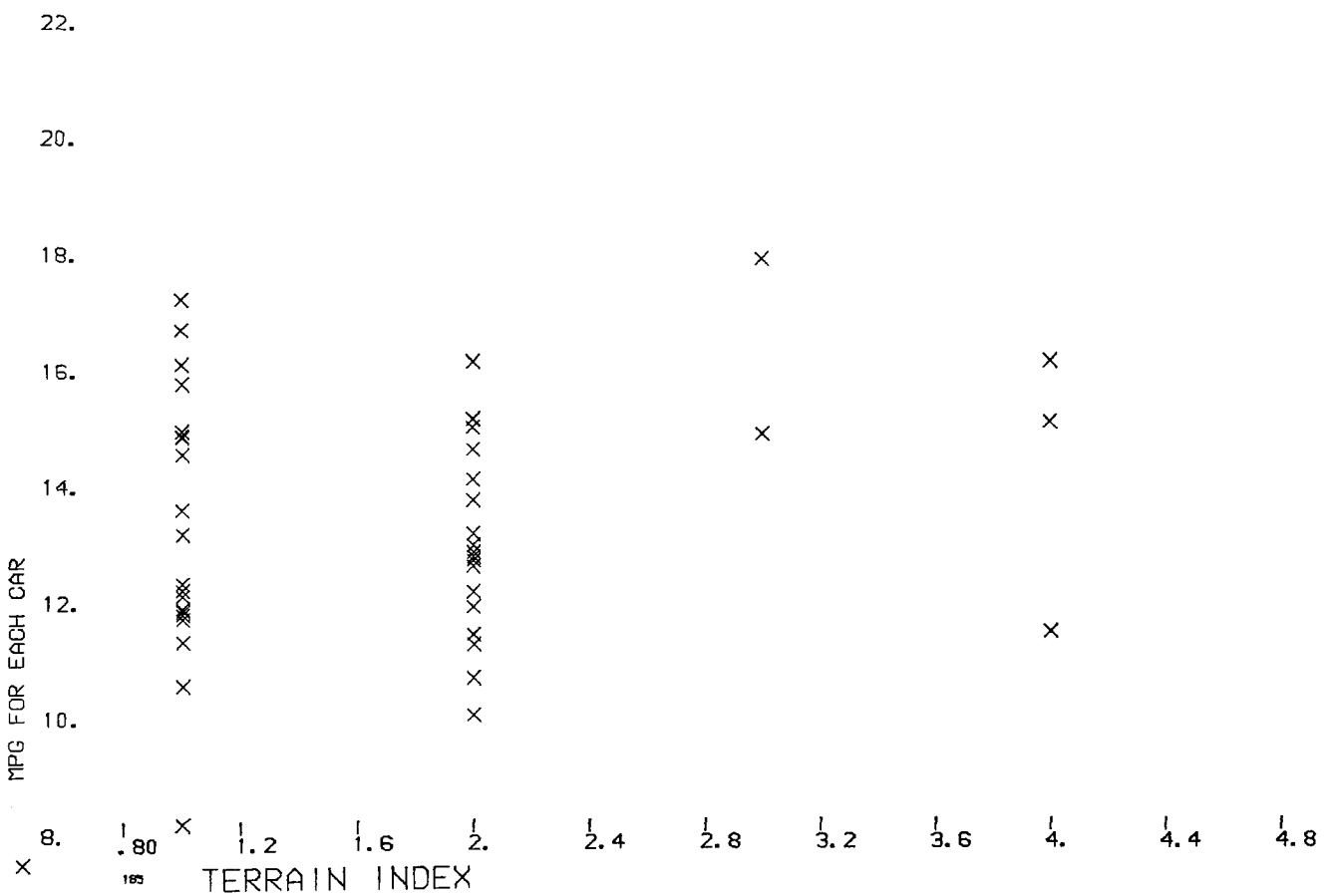
MPG VERSUS TERRAIN INDEX

CLASS 24500911

DATE 062476

CORRELATION COEFFICIENT = .1825

95 PERCENT CONFIDENCE INTERVAL = (-.1209, .4548)



GM FUEL ECONOMY STUDY

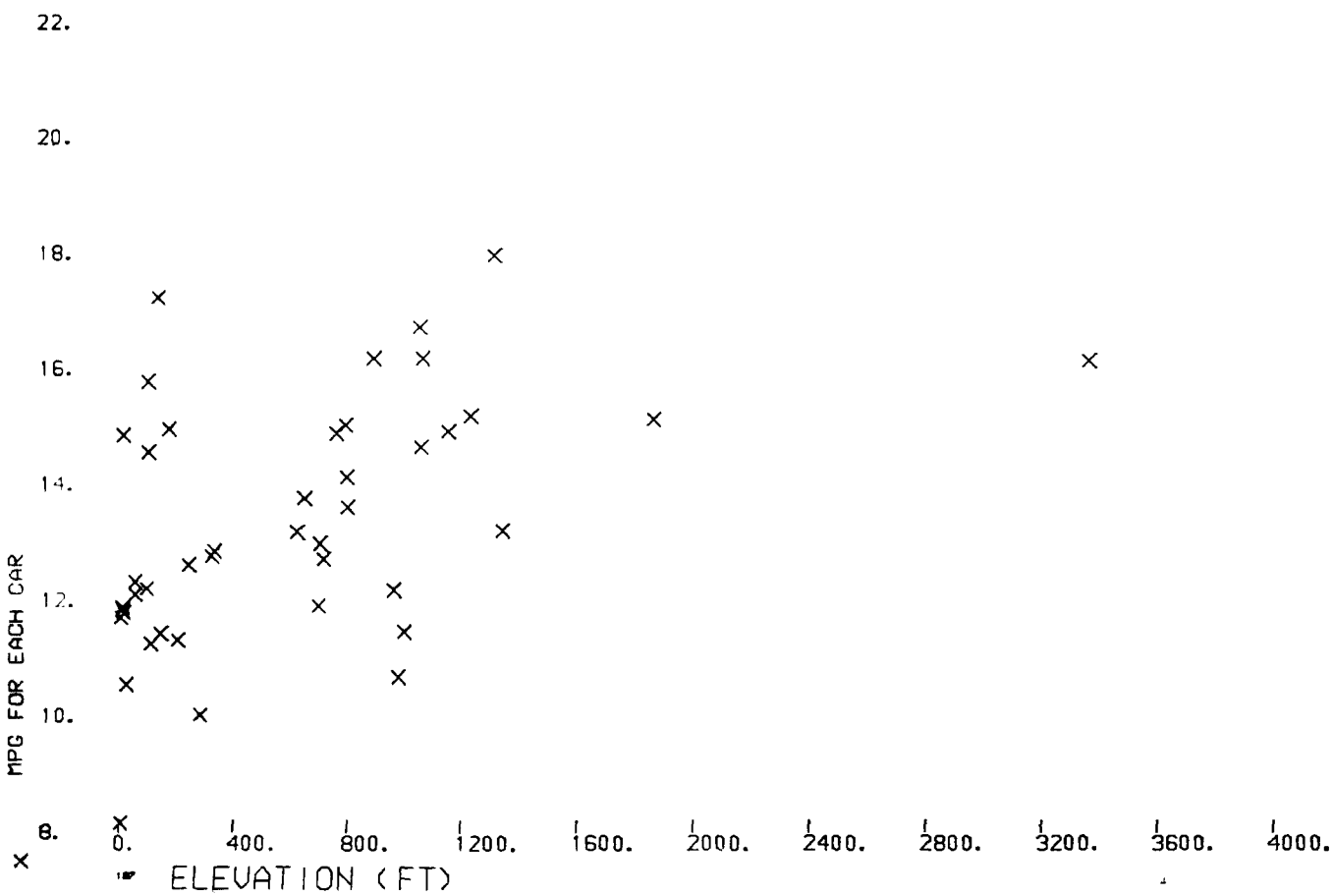
MPG VERSUS ELEVATION

CLASS 24500911

DATE 062476

CORRELATION COEFFICIENT = .4792

95 PERCENT CONFIDENCE INTERVAL = (.2126, .6794)



GM FUEL ECONOMY STUDY

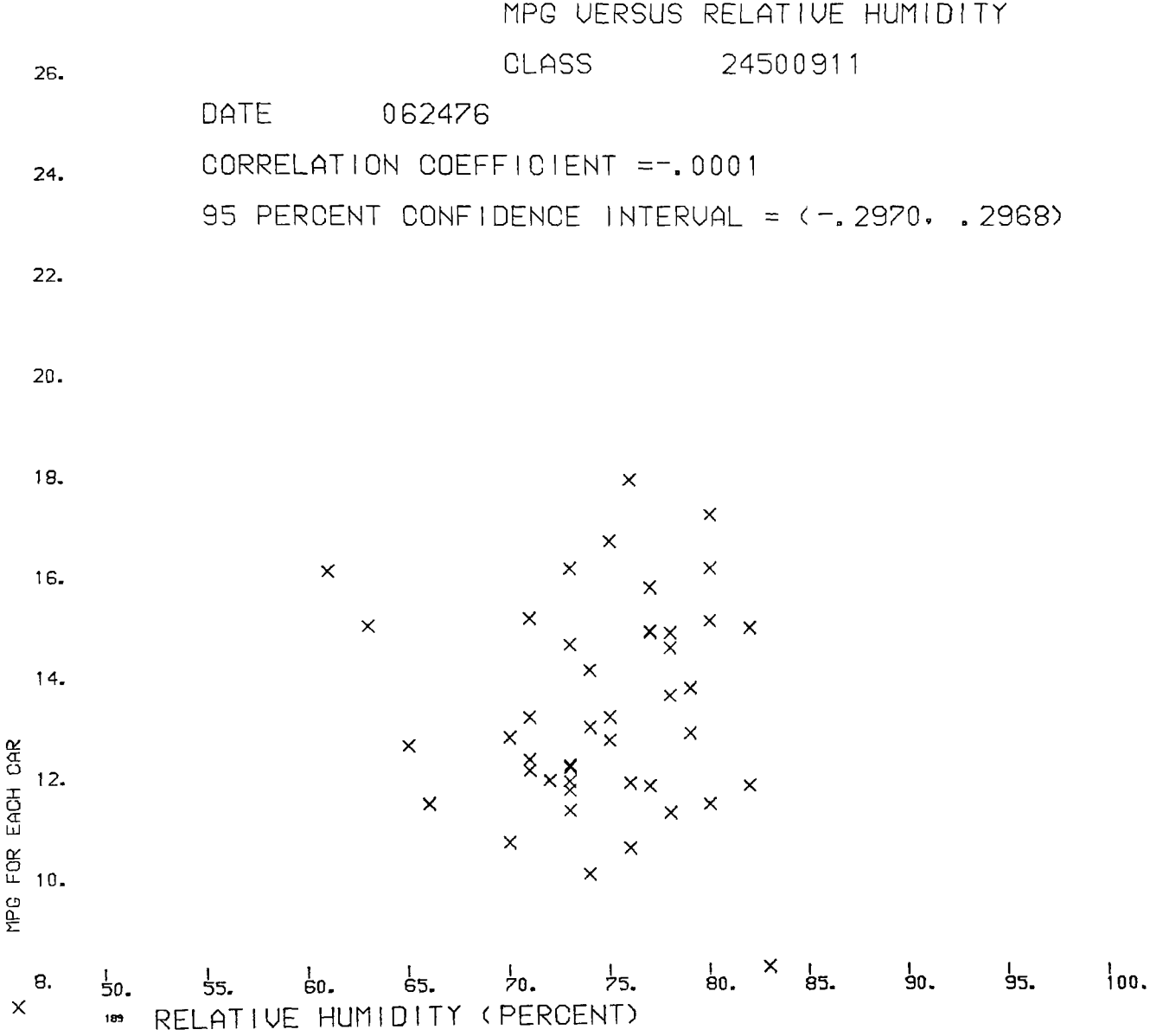
MPG VERSUS RELATIVE HUMIDITY

CLASS 24500911

DATE 062476

CORRELATION COEFFICIENT =-.0001

95 PERCENT CONFIDENCE INTERVAL = (-.2970, .2968)



GM FUEL ECONOMY STUDY

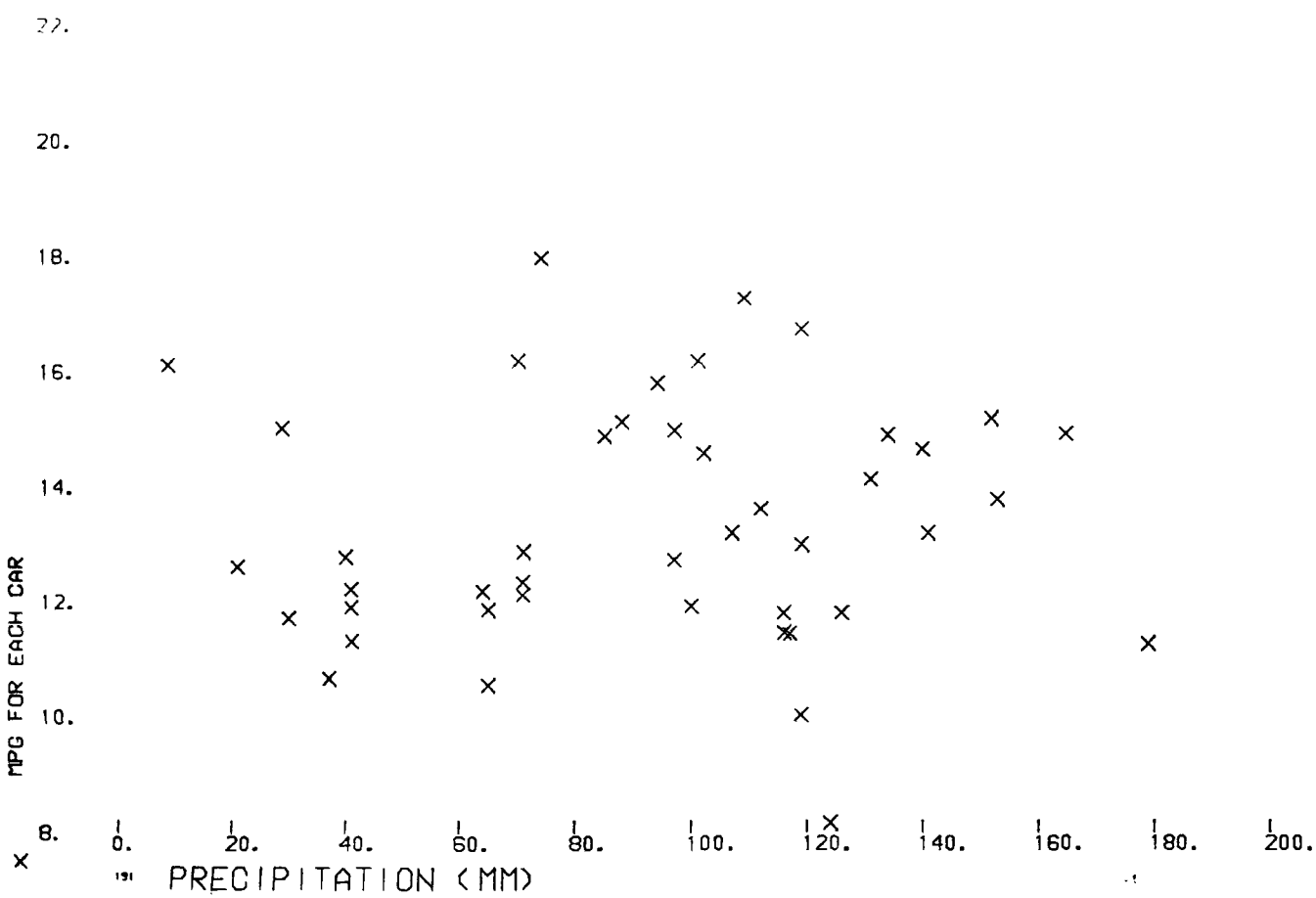
MPG VERSUS PRECIPITATION

CLASS 24500911

DATE 062476

CORRELATION COEFFICIENT = .0627

95 PERCENT CONFIDENCE INTERVAL = (-.2386, .3530)



GM FUEL ECONOMY STUDY

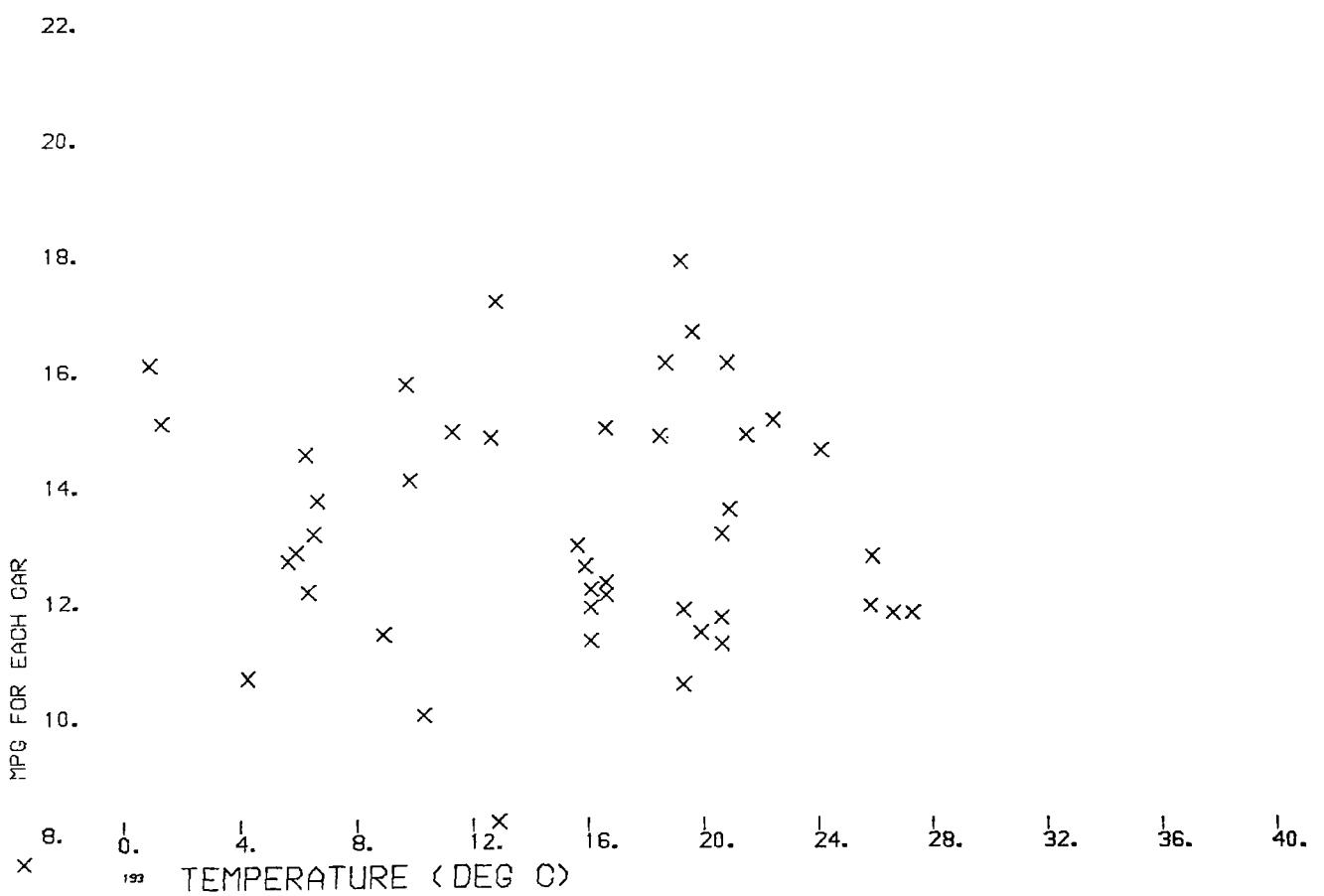
MPG VERSUS TEMPERATURE

CLASS 24500911

DATE 062476

CORRELATION COEFFICIENT =-.0558

95 PERCENT CONFIDENCE INTERVAL = (-.3469, .2452)



GM FUEL ECONOMY STUDY

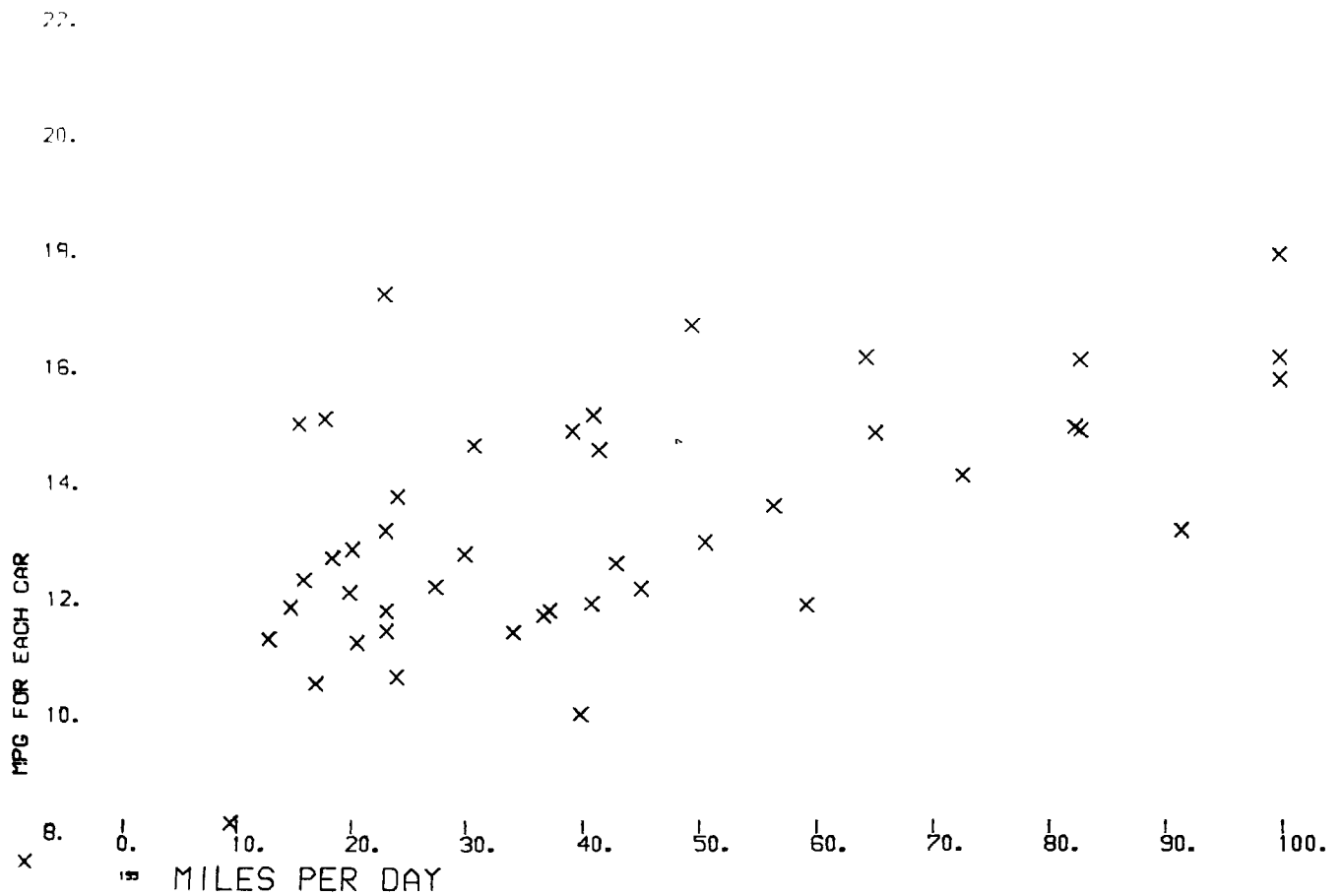
MPG VERSUS MILES PER DAY

CLASS 24500911

DATE 062476

CORRELATION COEFFICIENT = .5708

95 PERCENT CONFIDENCE INTERVAL = (.3298, .7419)



GM FUEL ECONOMY STUDY

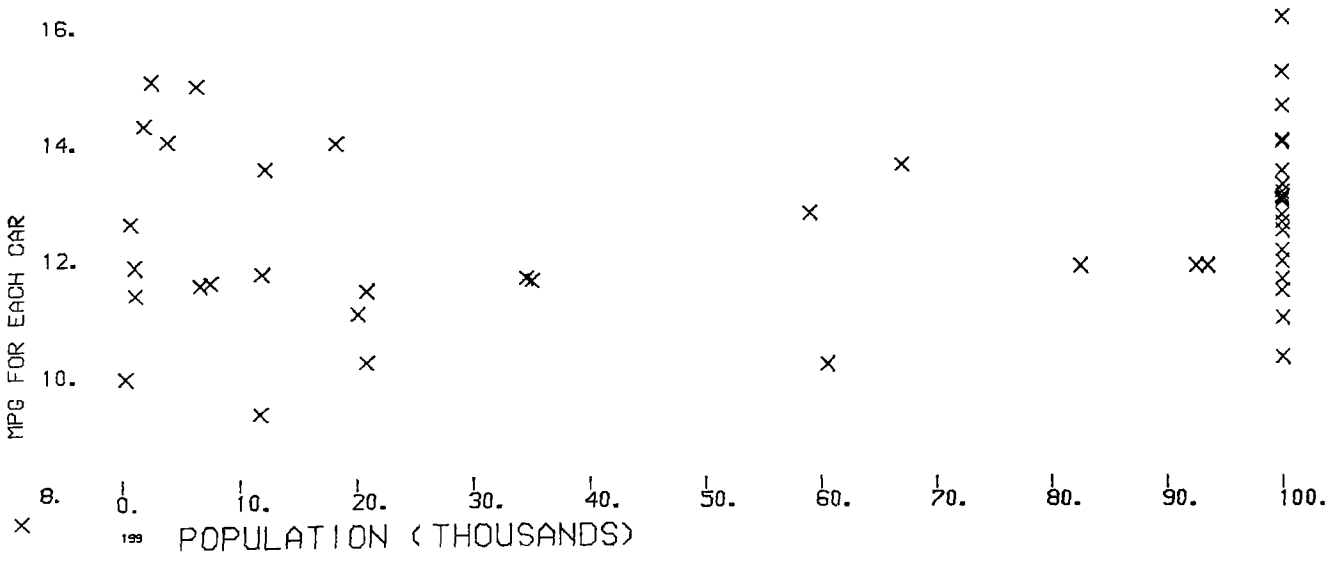
MPG VERSUS POPULATION

CLASS 24501211

DATE 062476

CORRELATION COEFFICIENT =-.0175

95 PERCENT CONFIDENCE INTERVAL = (-.2972, .2650)



GM FUEL ECONOMY STUDY

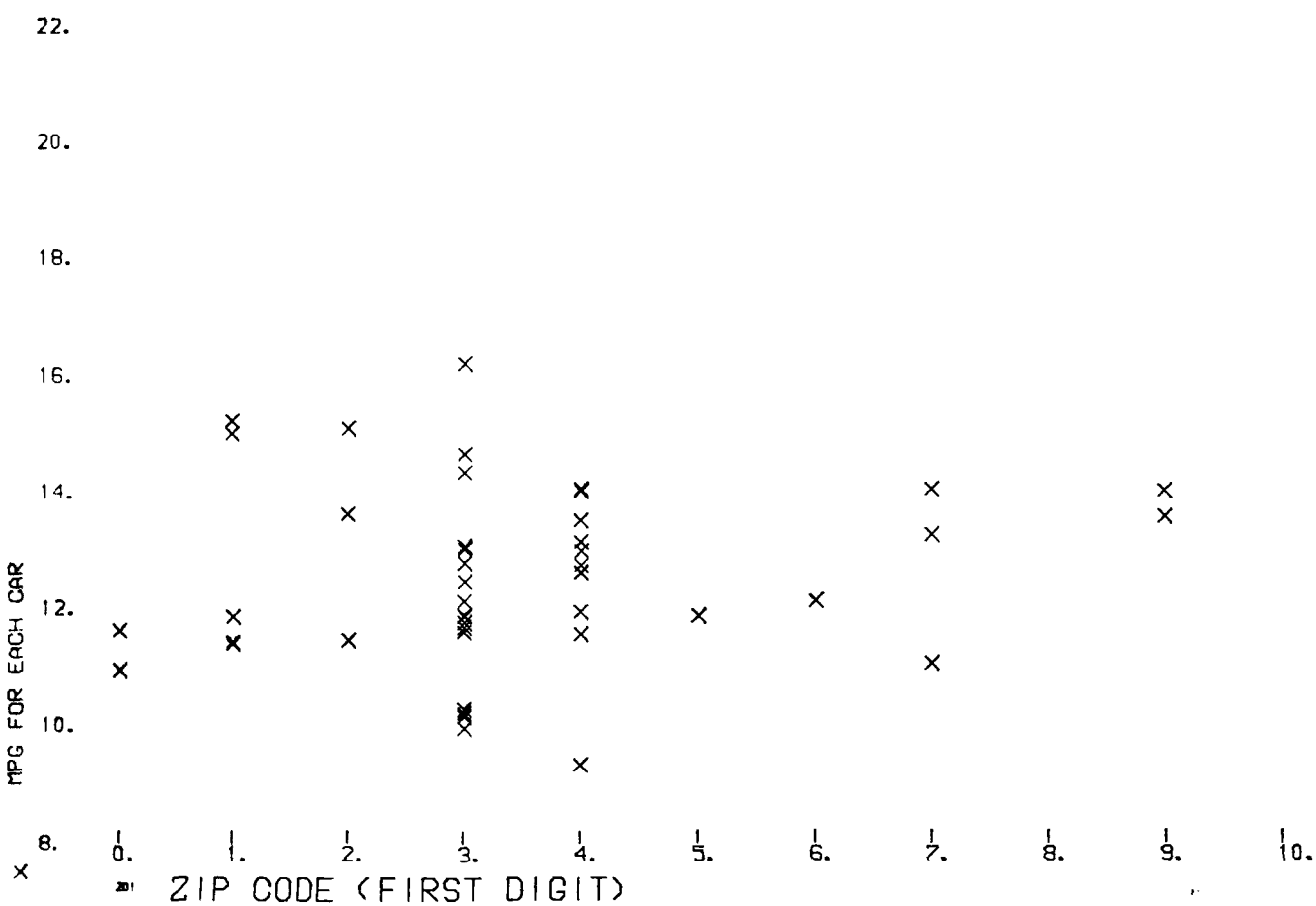
MPG VERSUS ZIP CODE

CLASS 24501211

DATE 062476

CORRELATION COEFFICIENT = .1354

95 PERCENT CONFIDENCE INTERVAL = (-.1516, .4013)



GM FUEL ECONOMY STUDY

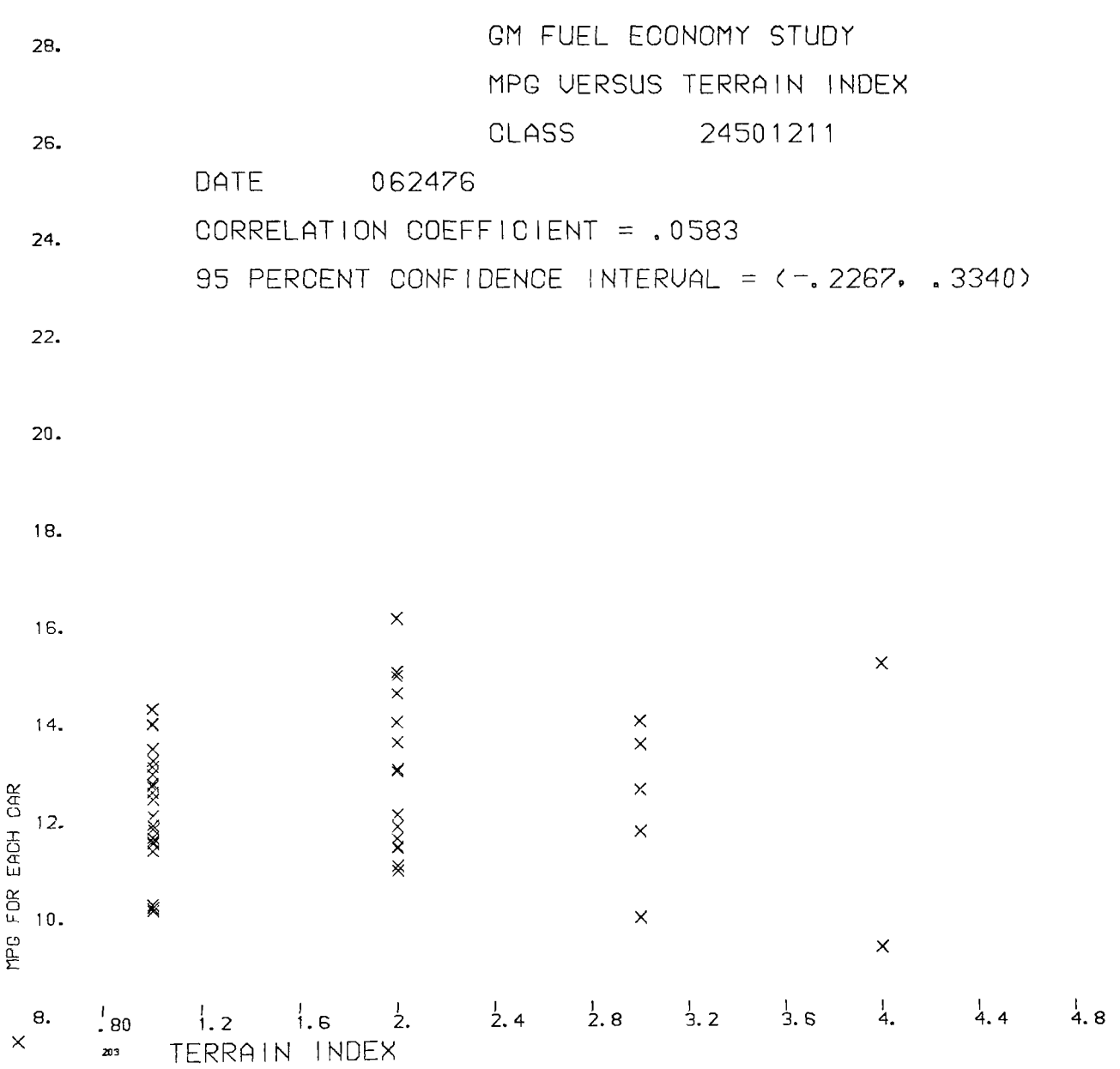
MPG VERSUS TERRAIN INDEX

CLASS 24501211

DATE 062476

CORRELATION COEFFICIENT = .0583

95 PERCENT CONFIDENCE INTERVAL = (-.2267, .3340)



GM FUEL ECONOMY STUDY

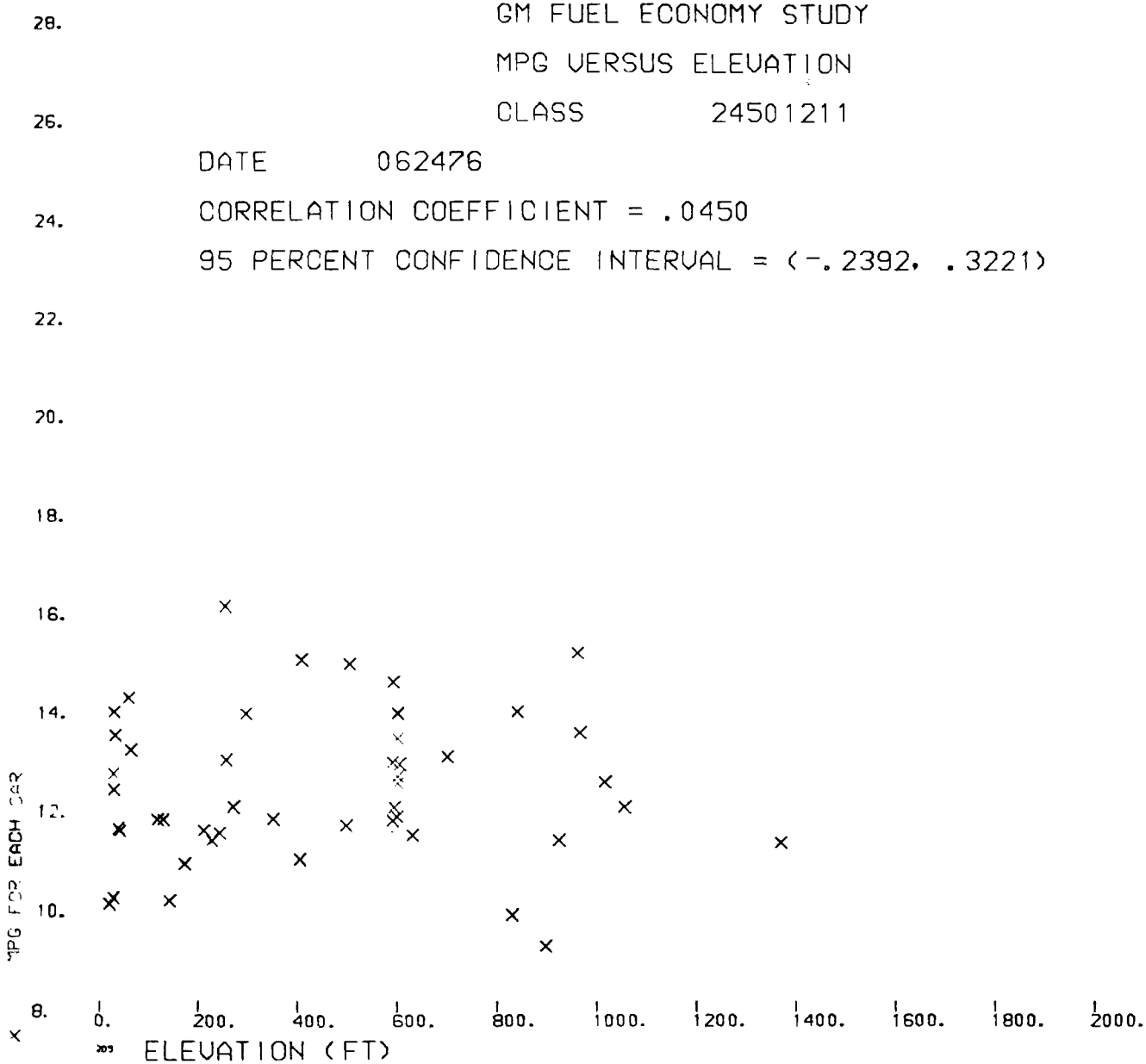
MPG VERSUS ELEVATION

CLASS 24501211

DATE 062476

CORRELATION COEFFICIENT = .0450

95 PERCENT CONFIDENCE INTERVAL = (-.2392, .3221)



GM FUEL ECONOMY STUDY

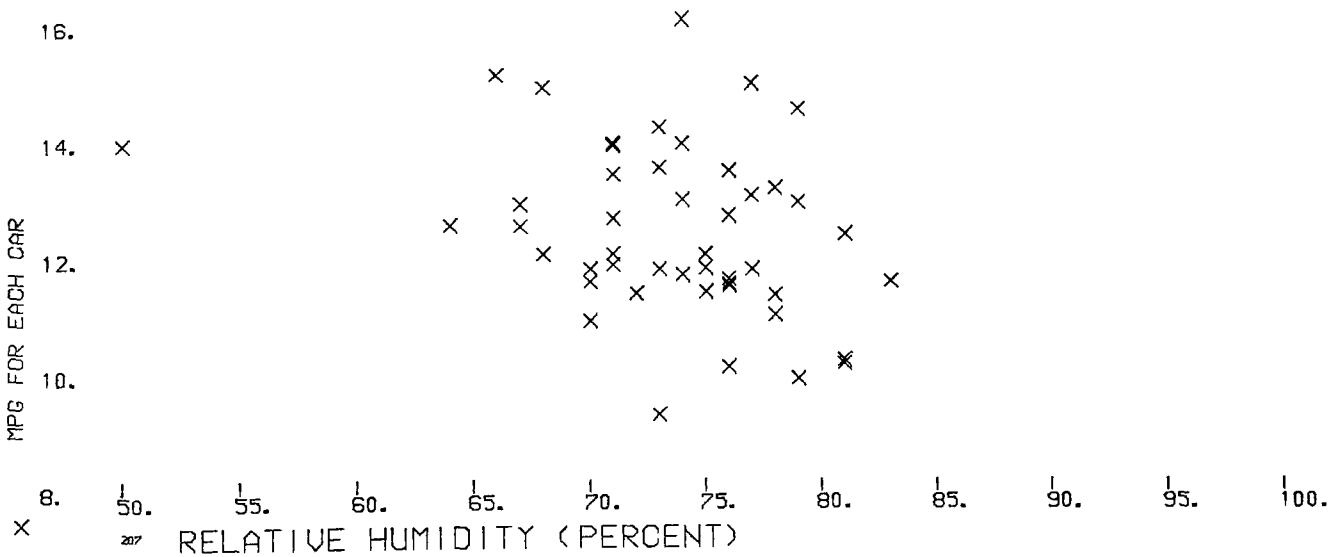
MPG VERSUS RELATIVE HUMIDITY

CLASS 24501211

DATE 062476

CORRELATION COEFFICIENT =-.2832

95 PERCENT CONFIDENCE INTERVAL = (-.5228, -.0022)



GM FUEL ECONOMY STUDY

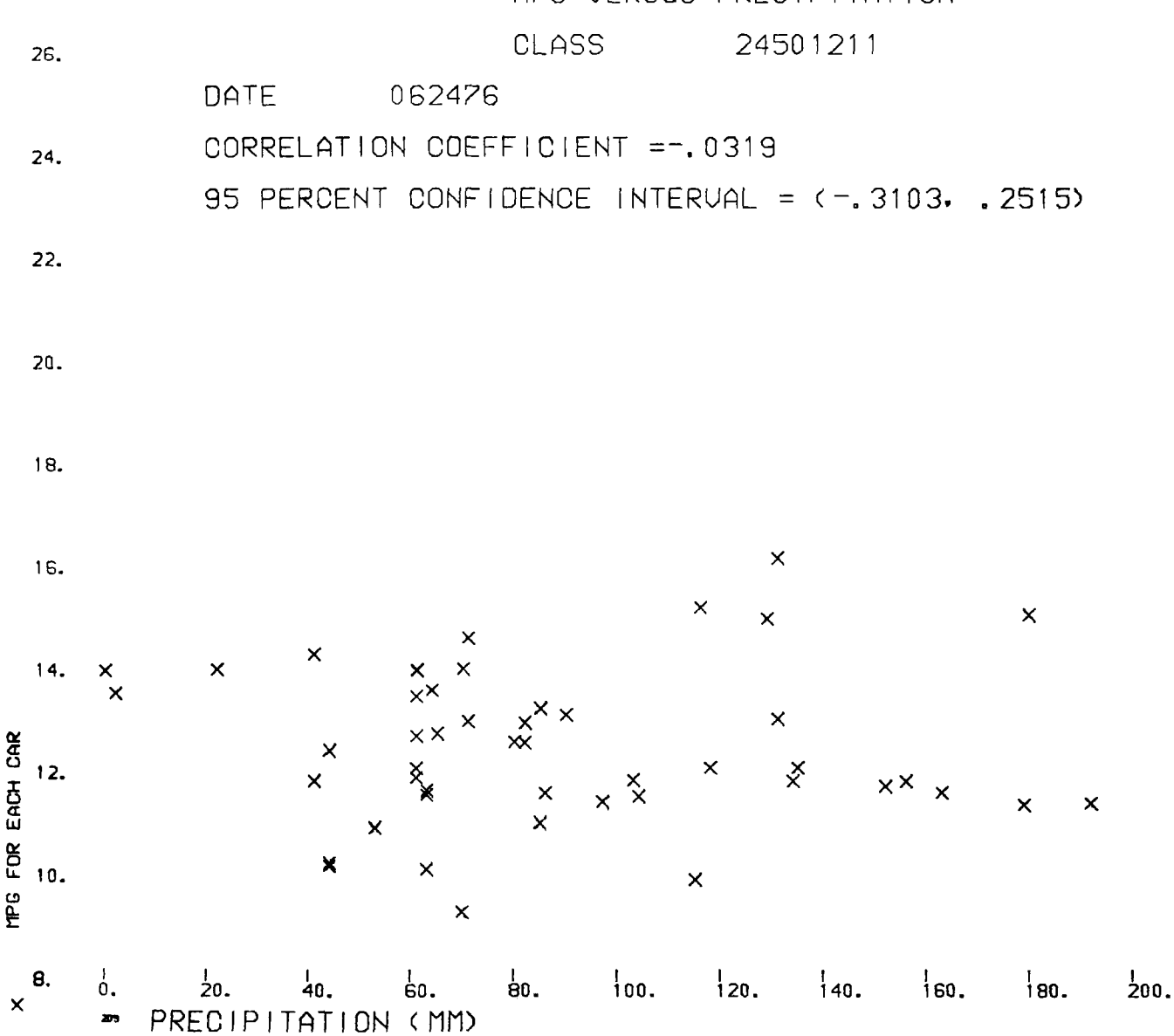
MPG VERSUS PRECIPITATION

CLASS 24501211

DATE 062476

CORRELATION COEFFICIENT =-.0319

95 PERCENT CONFIDENCE INTERVAL = (-.3103, .2515)



GM FUEL ECONOMY STUDY

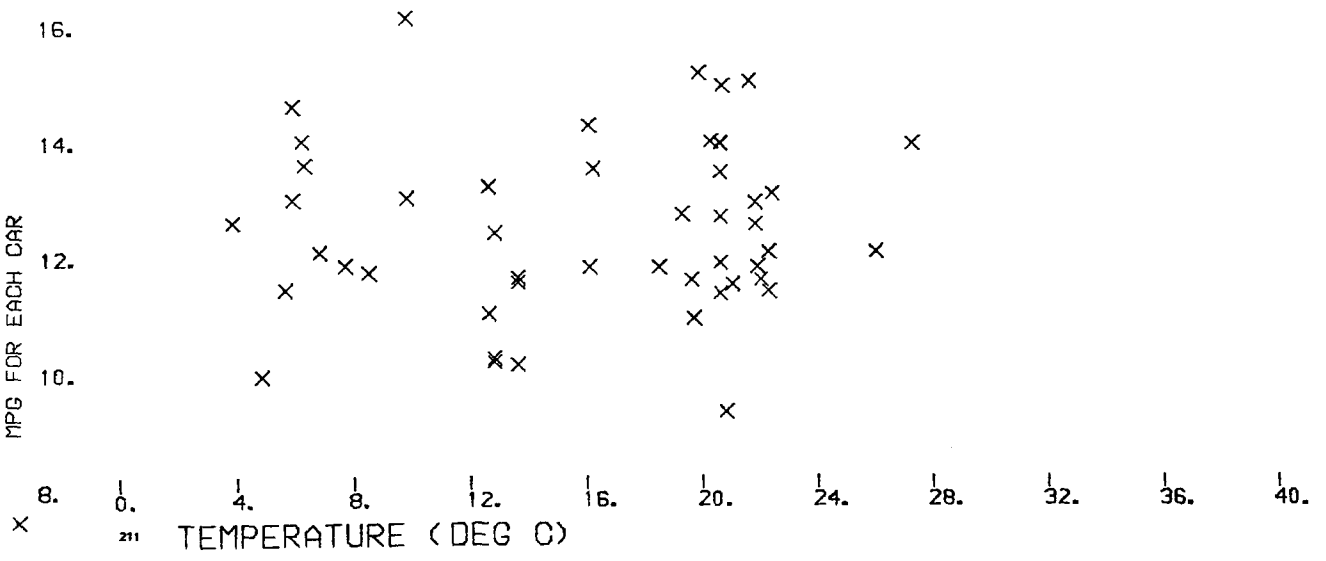
MPG VERSUS TEMPERATURE

CLASS 24501211

DATE 062476

CORRELATION COEFFICIENT = .0564

95 PERCENT CONFIDENCE INTERVAL = (-.2284, .3323)



GM FUEL ECONOMY STUDY

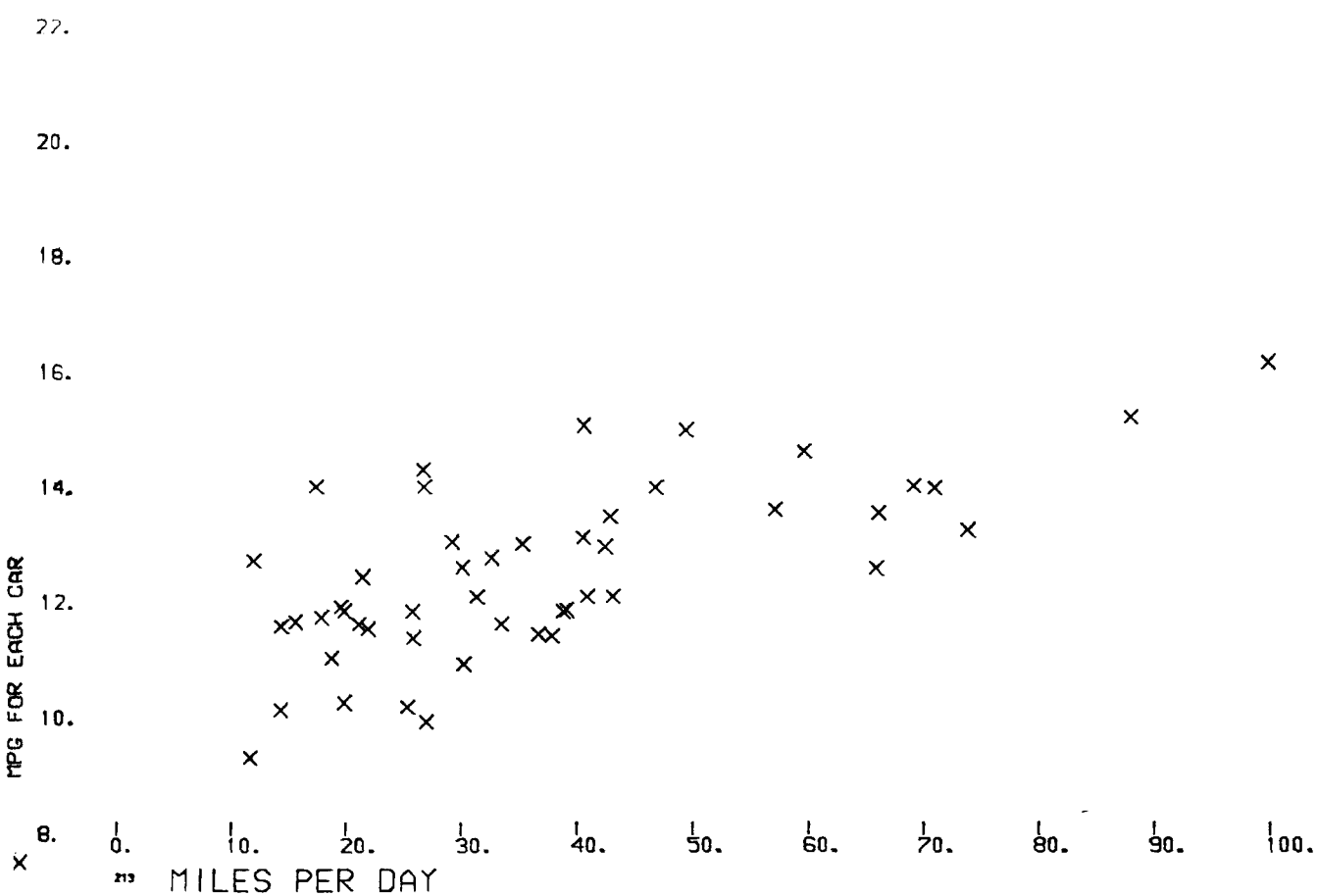
MPG VERSUS MILES PER DAY

CLASS 24501211

DATE 062476

CORRELATION COEFFICIENT = .6757

95 PERCENT CONFIDENCE INTERVAL = (.4870, .8041)



GM FUEL ECONOMY STUDY

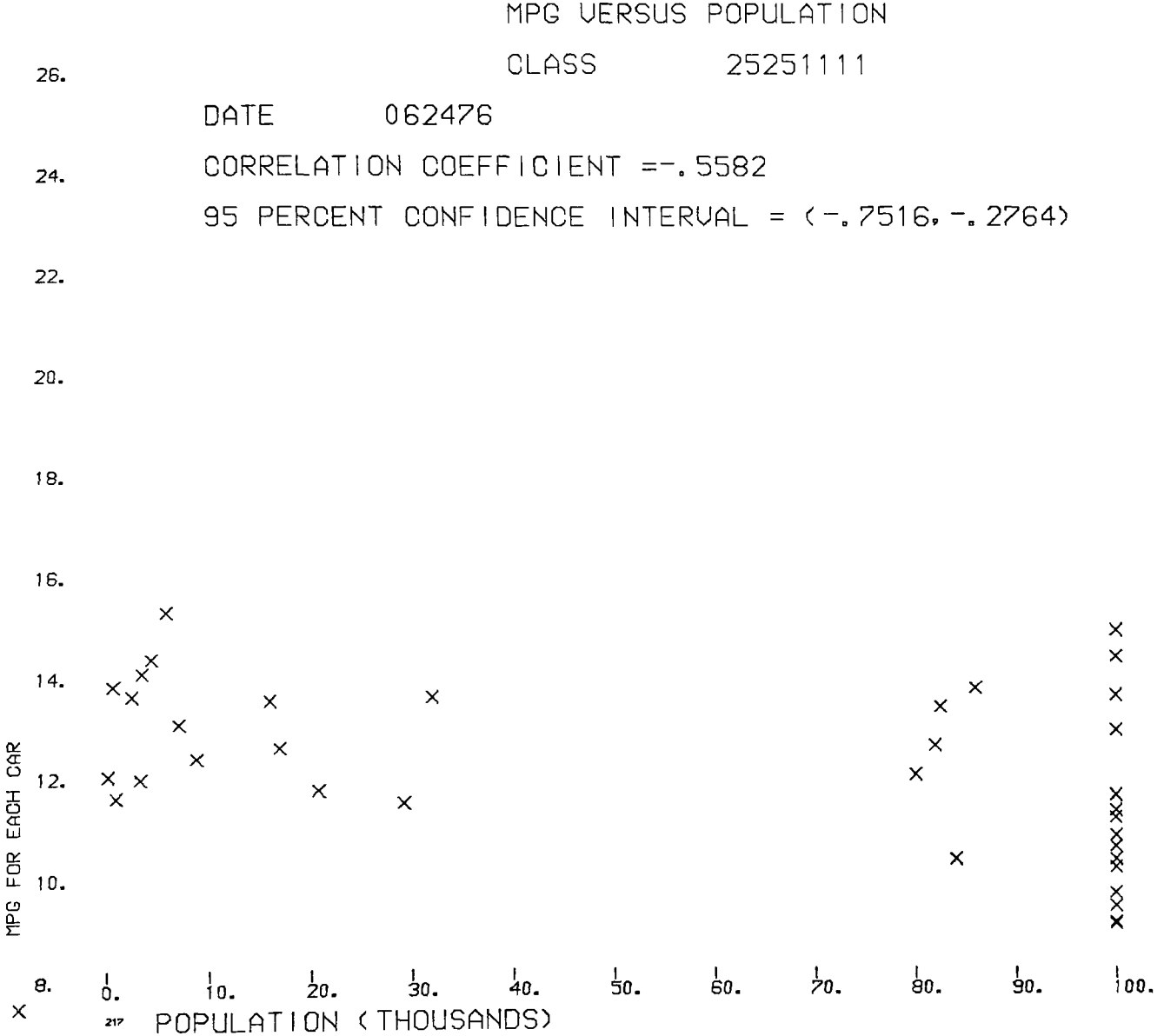
MPG VERSUS POPULATION

CLASS 25251111

DATE 062476

CORRELATION COEFFICIENT =-.5582

95 PERCENT CONFIDENCE INTERVAL = (-.7516, -.2764)



GM FUEL ECONOMY STUDY

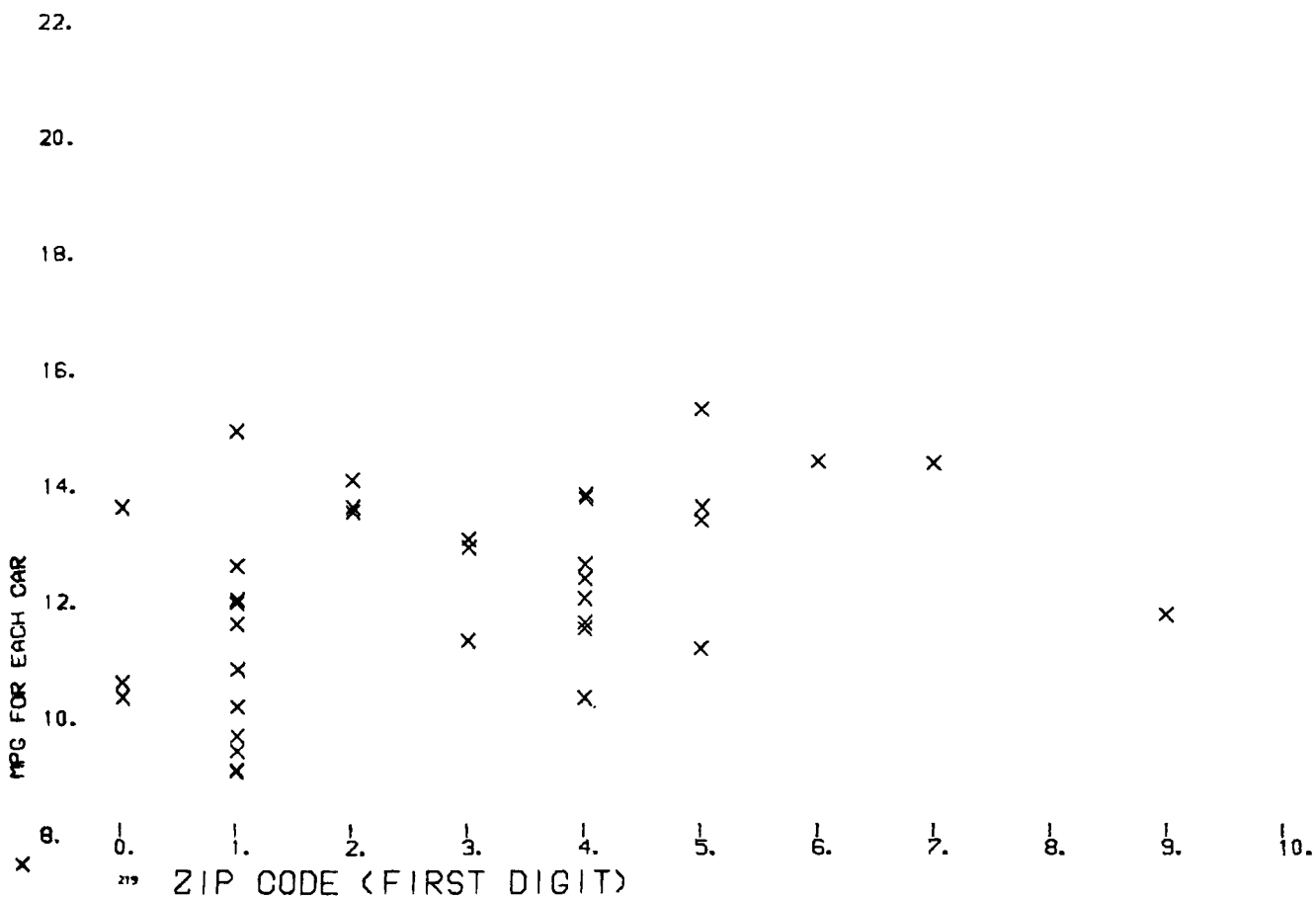
MPG VERSUS ZIP CODE

CLASS 25251111

DATE 062476

CORRELATION COEFFICIENT = .3980

95 PERCENT CONFIDENCE INTERVAL = (.0746, .6456)



GM FUEL ECONOMY STUDY

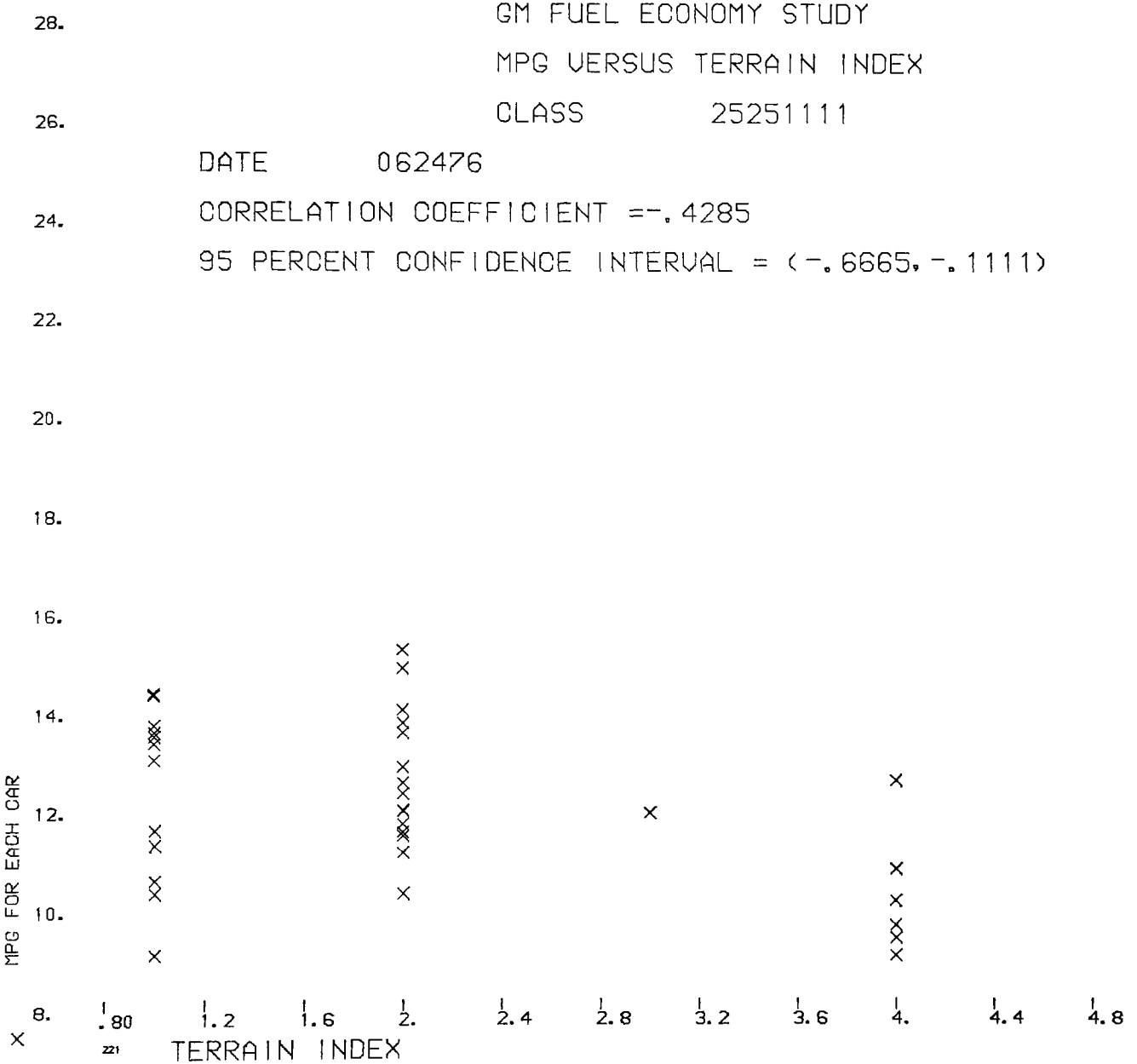
MPG VERSUS TERRAIN INDEX

CLASS 25251111

DATE 062476

CORRELATION COEFFICIENT =-.4285

95 PERCENT CONFIDENCE INTERVAL = (-.6665, -.1111)



GM FUEL ECONOMY STUDY

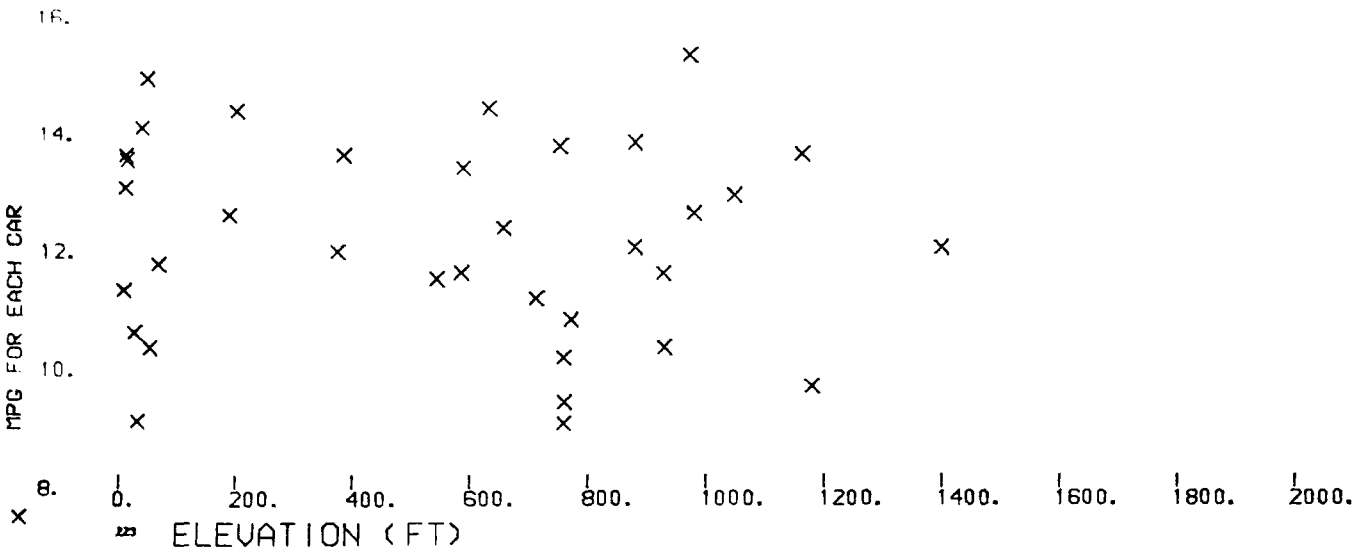
MPG VERSUS ELEVATION

CLASS 25251111

DATE 062476

CORRELATION COEFFICIENT =-.0976

95 PERCENT CONFIDENCE INTERVAL = (-.4173, .2436)



GM FUEL ECONOMY STUDY

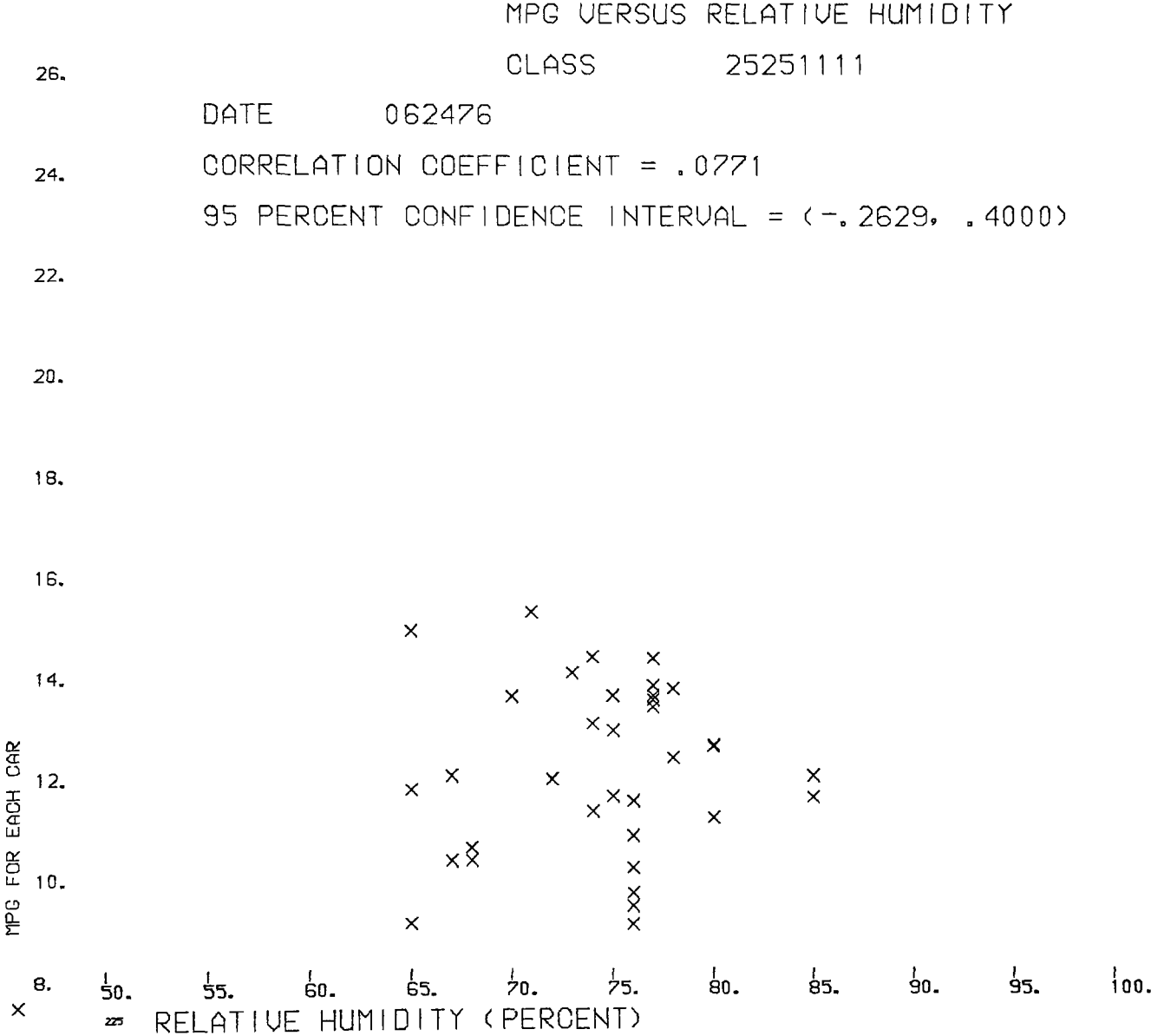
MPG VERSUS RELATIVE HUMIDITY

CLASS 25251111

DATE 062476

CORRELATION COEFFICIENT = .0771

95 PERCENT CONFIDENCE INTERVAL = (-.2629, .4000)



GM FUEL ECONOMY STUDY

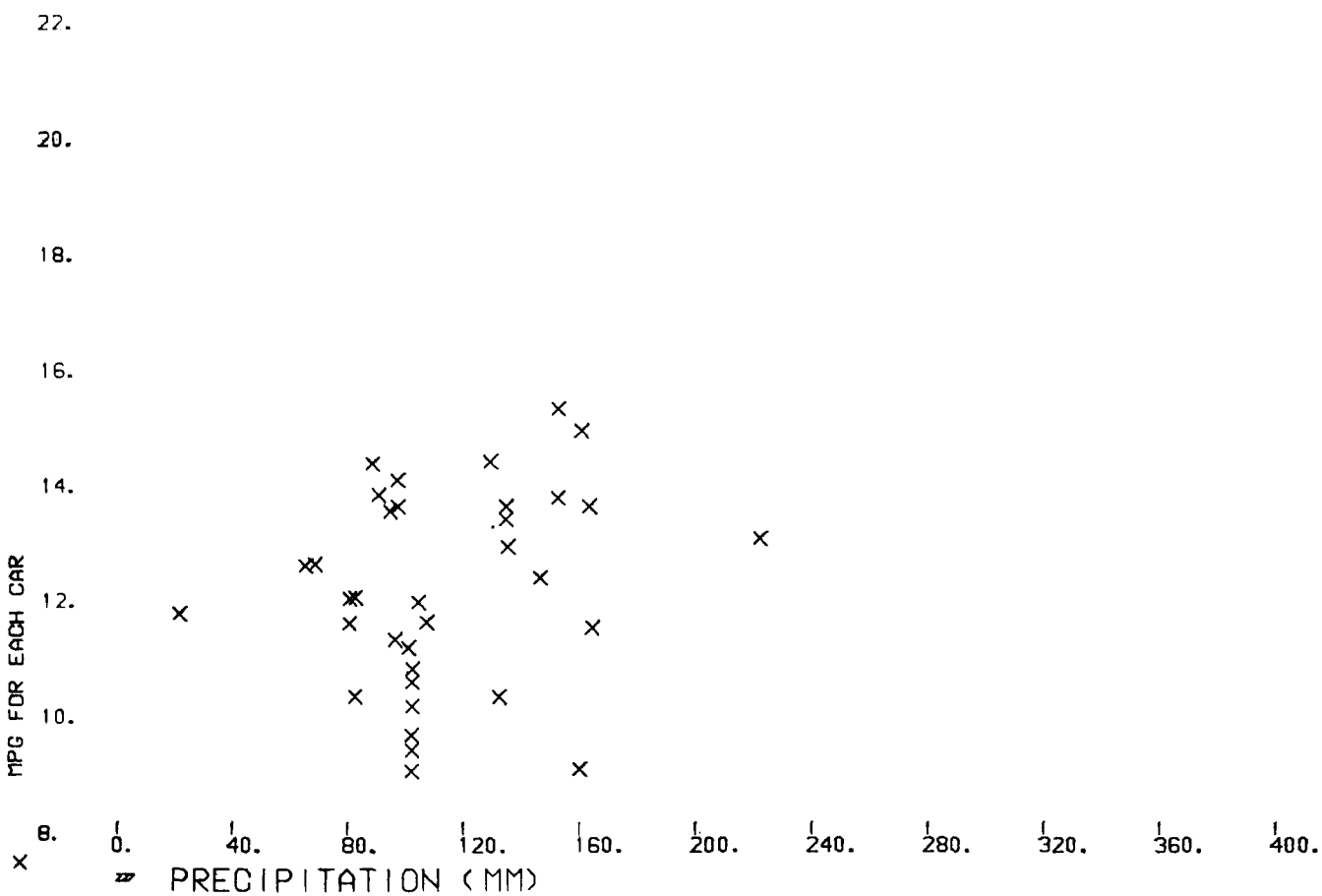
MPG VERSUS PRECIPITATION

CLASS 25251111

DATE 062476

CORRELATION COEFFICIENT = .2188

95 PERCENT CONFIDENCE INTERVAL = (-.1234, .5146)



GM FUEL ECONOMY STUDY

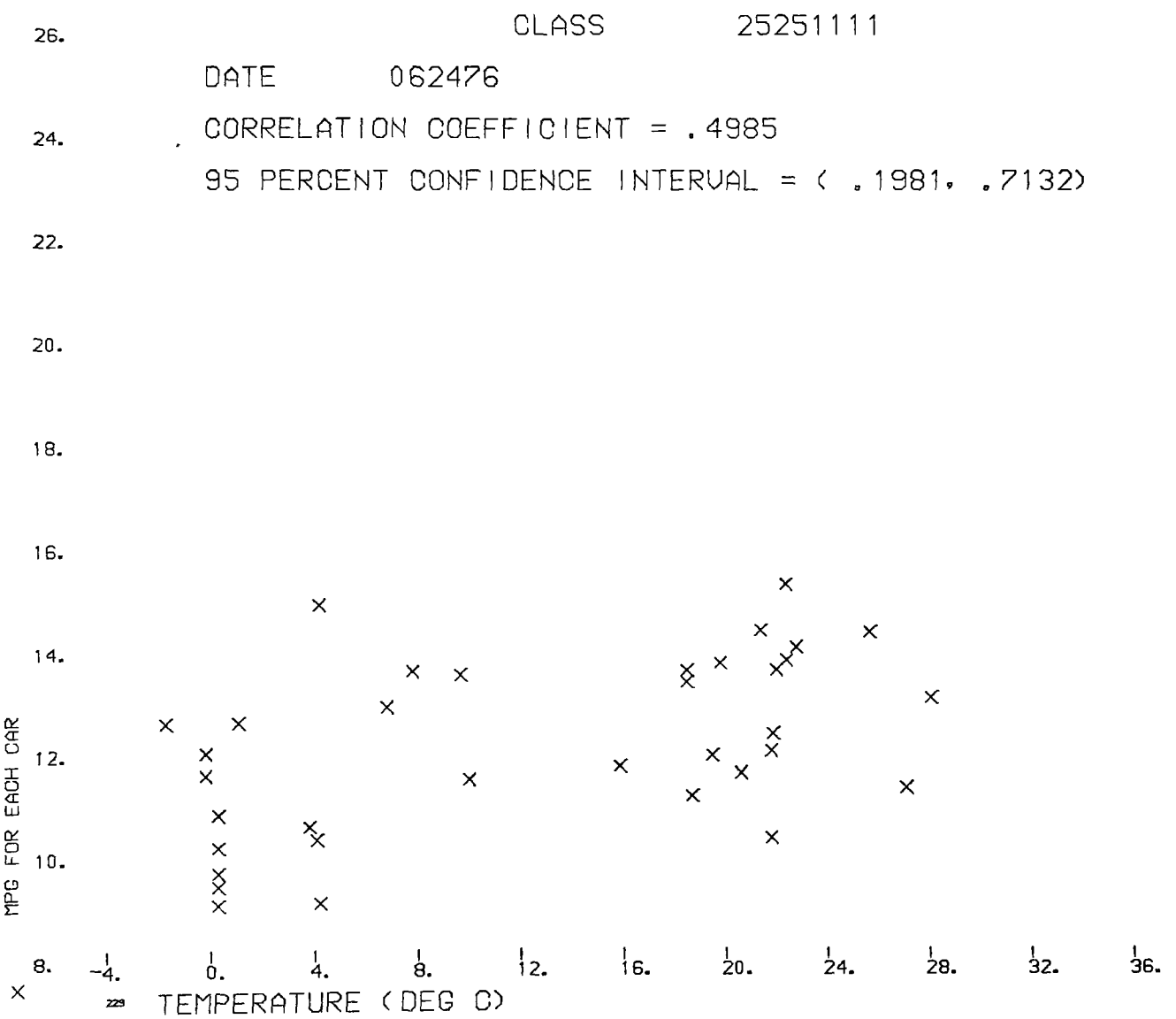
MPG VERSUS TEMPERATURE

CLASS 25251111

DATE 062476

CORRELATION COEFFICIENT = .4985

95 PERCENT CONFIDENCE INTERVAL = (.1981, .7132)



GM FUEL ECONOMY STUDY

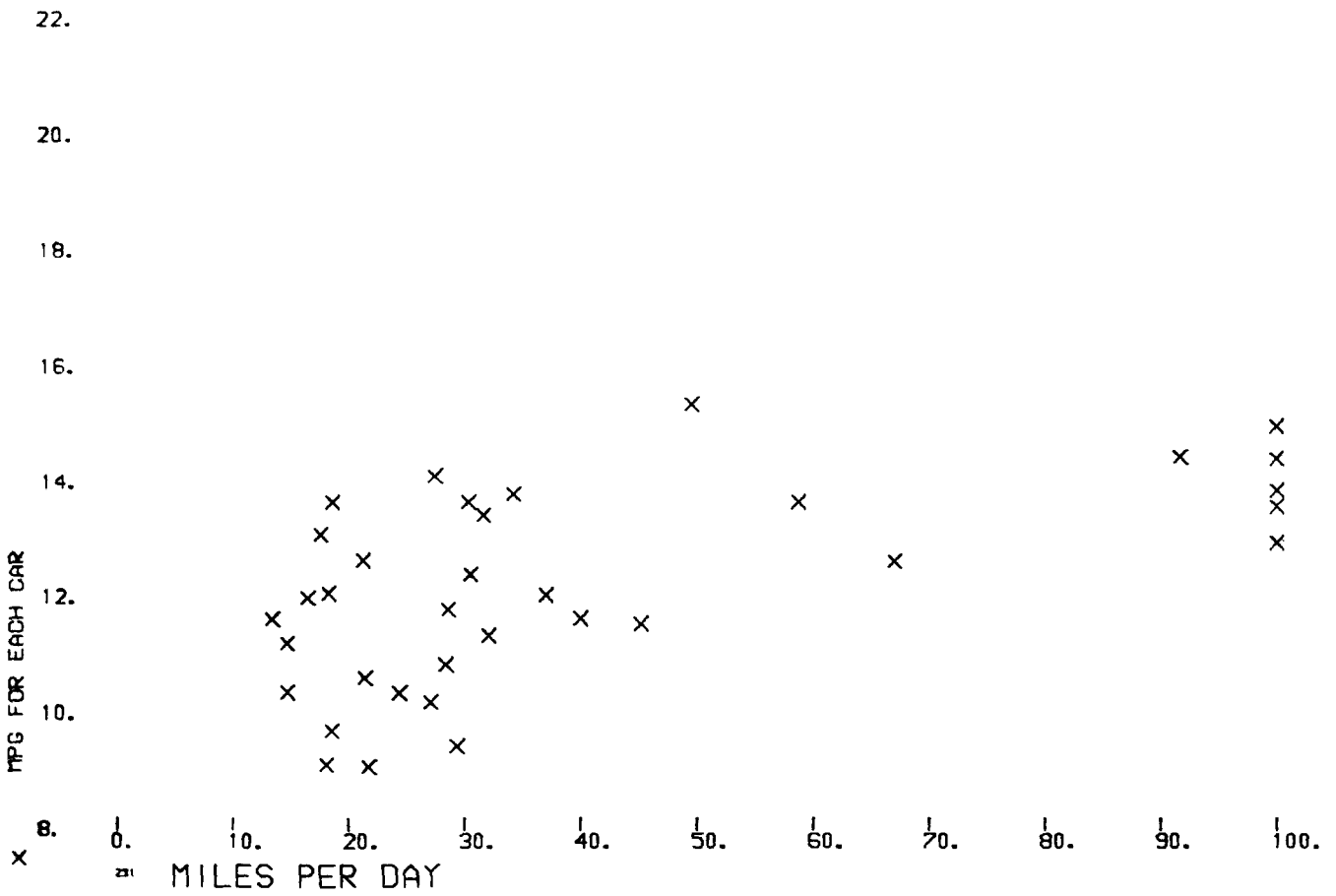
MPG VERSUS MILES PER DAY

CLASS 25251111

DATE 062476

CORRELATION COEFFICIENT = .5480

95 PERCENT CONFIDENCE INTERVAL = (.2627, .7452)



GM FUEL ECONOMY STUDY

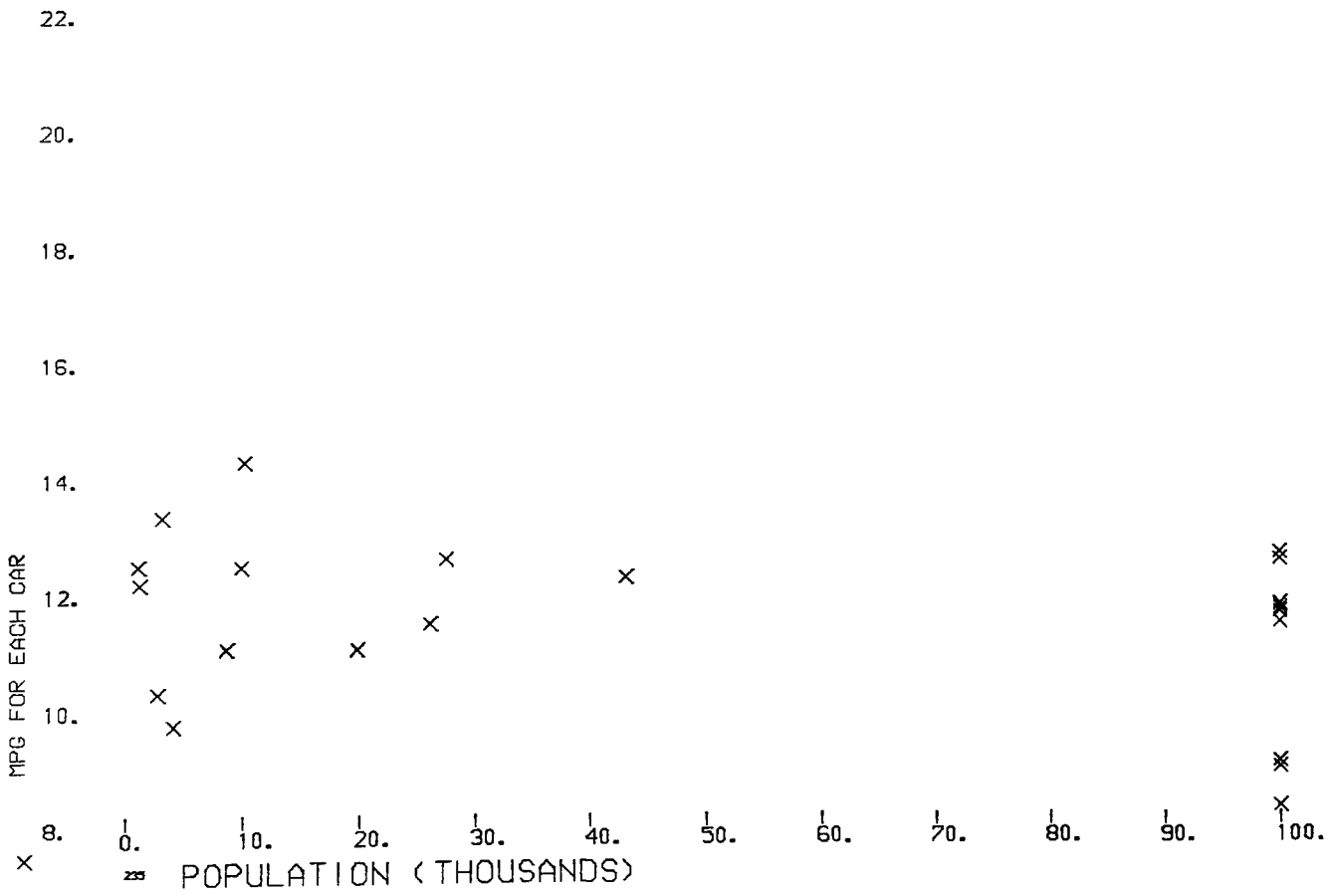
MPG VERSUS POPULATION

CLASS 25251212

DATE 062476

CORRELATION COEFFICIENT =-.3544

95 PERCENT CONFIDENCE INTERVAL = (-.6751, .0790)



GM FUEL ECONOMY STUDY

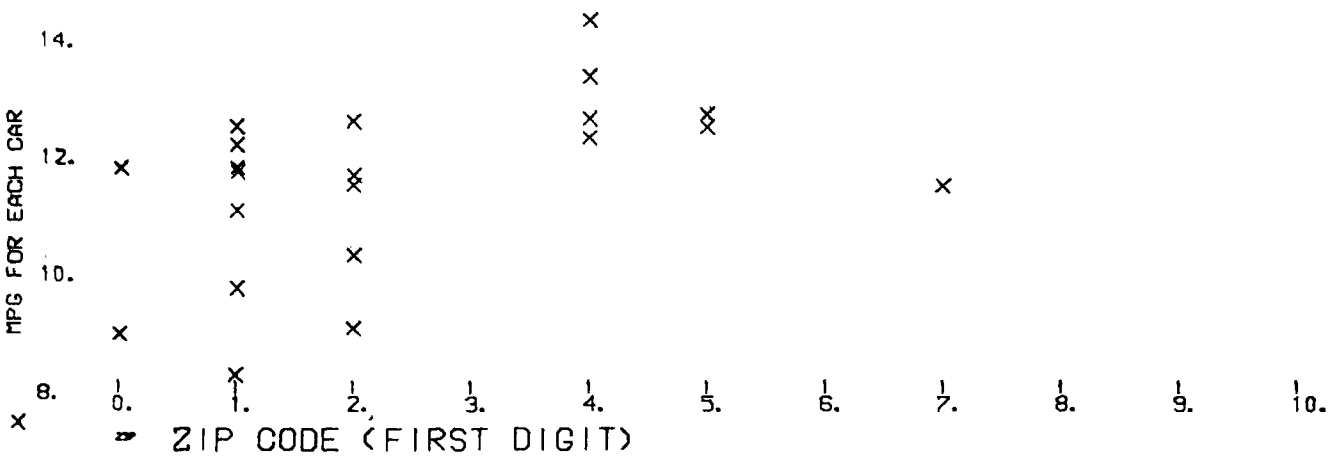
MPG VERSUS ZIP CODE

CLASS 25251212

DATE 062476

CORRELATION COEFFICIENT = .4775

95 PERCENT CONFIDENCE INTERVAL = (.0699, .7484)



GM FUEL ECONOMY STUDY

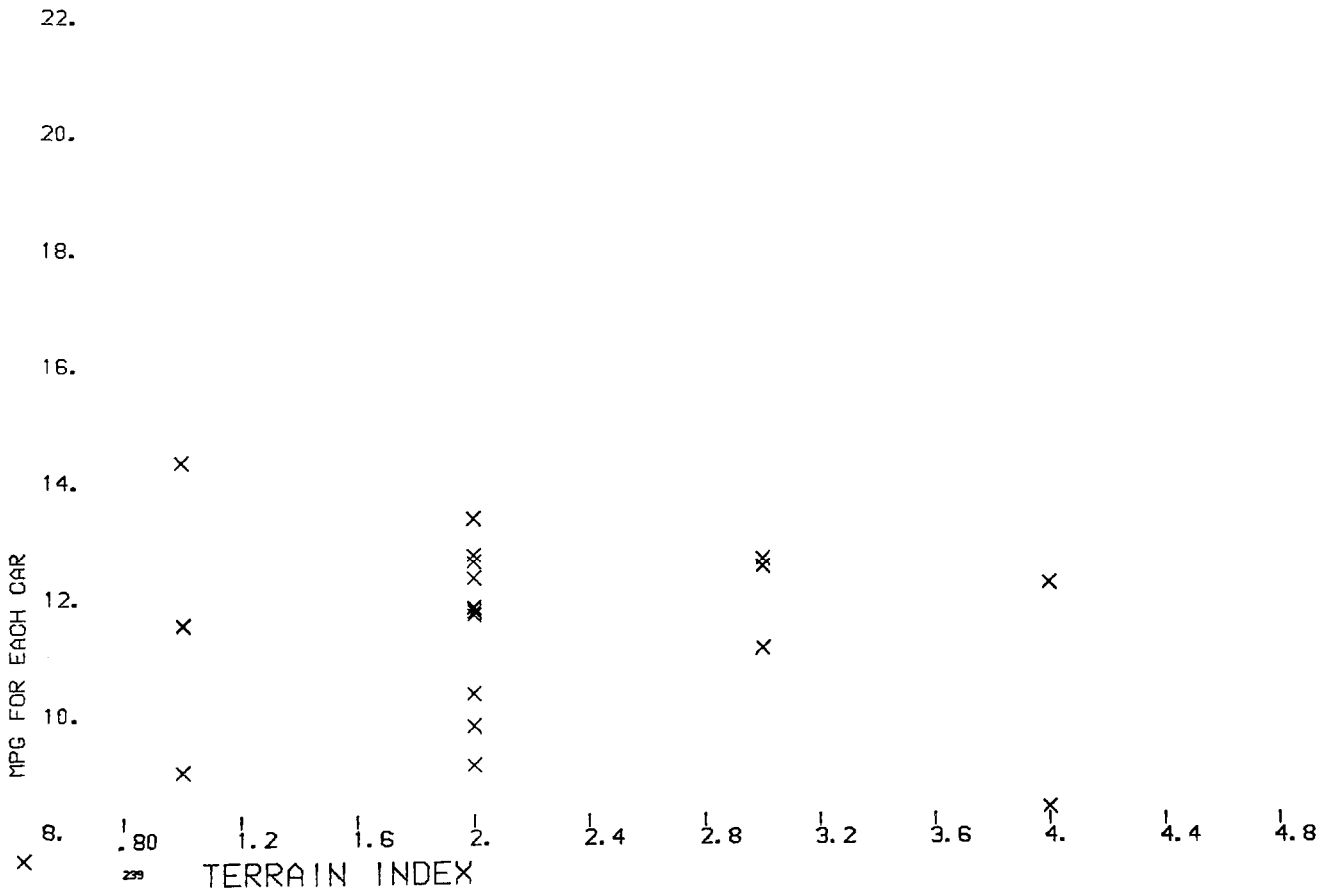
MPG VERSUS TERRAIN INDEX

CLASS 25251212

DATE 062476

CORRELATION COEFFICIENT =-.1189

95 PERCENT CONFIDENCE INTERVAL = (-.5147, .3187)



GM FUEL ECONOMY STUDY

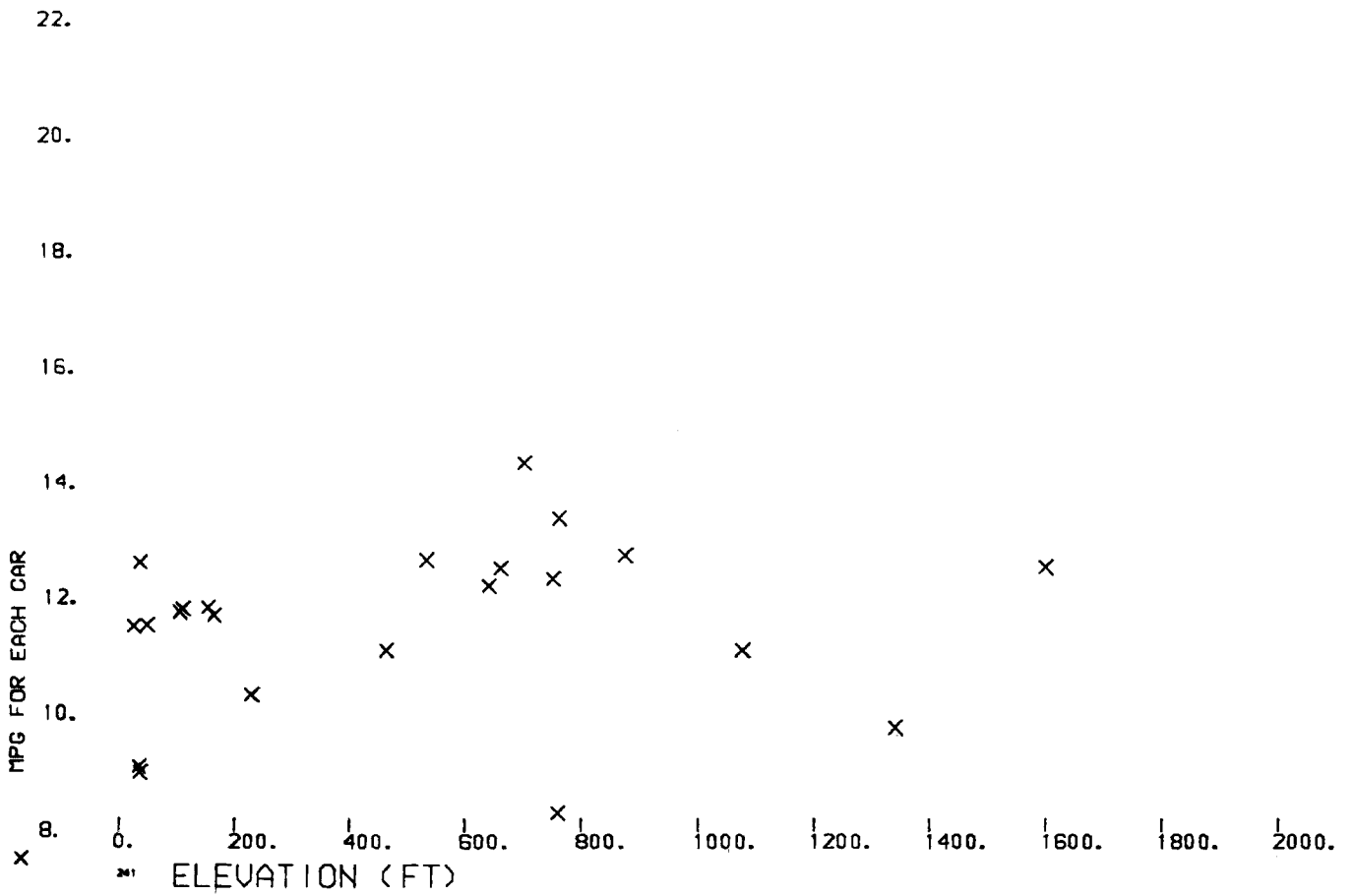
MPG VERSUS ELEVATION

CLASS 25251212

DATE 062476

CORRELATION COEFFICIENT = .1619

95 PERCENT CONFIDENCE INTERVAL = (-.2788, .5462)



GM FUEL ECONOMY STUDY

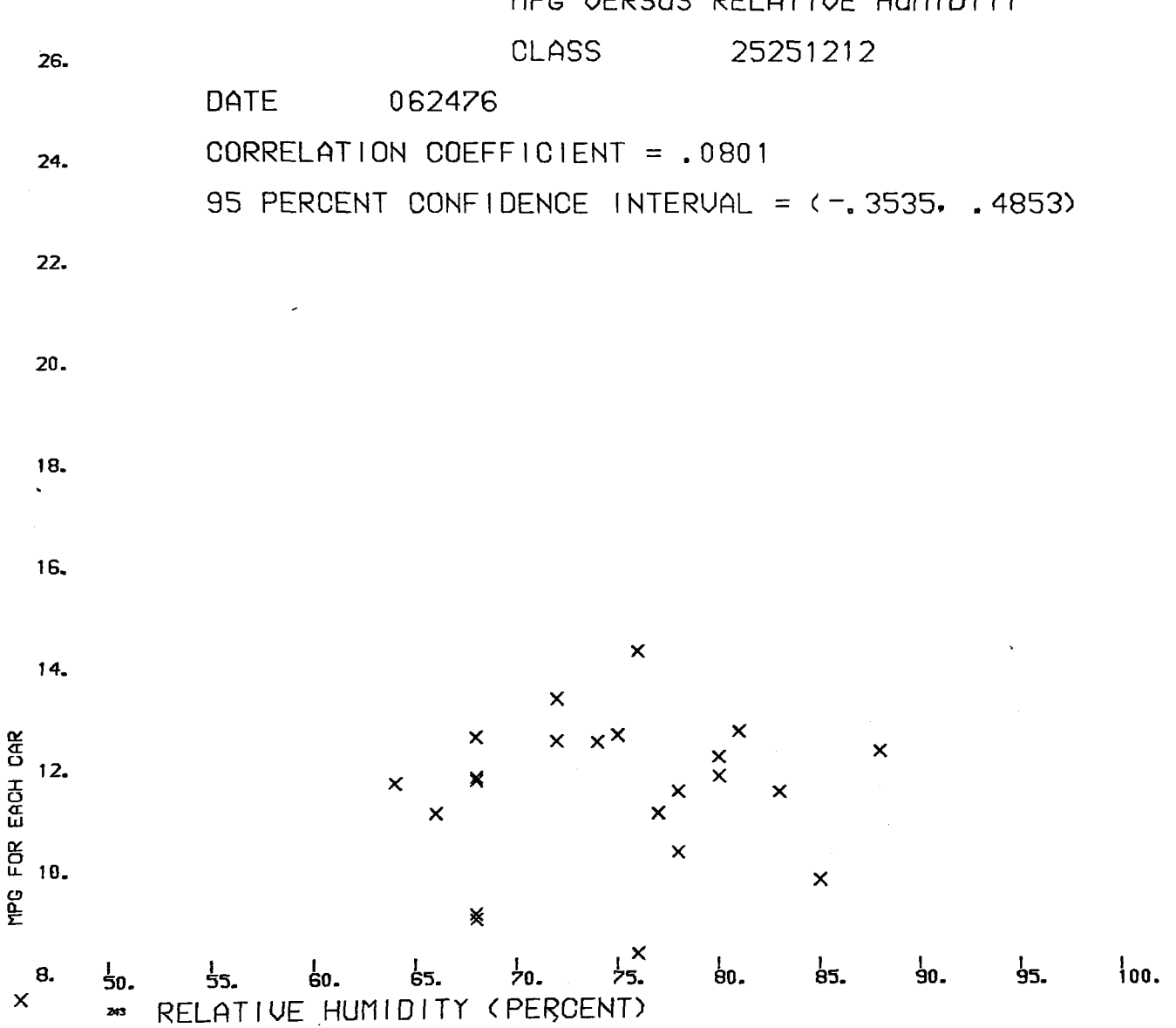
MPG VERSUS RELATIVE HUMIDITY

CLASS 25251212

DATE 062476

CORRELATION COEFFICIENT = .0801

95 PERCENT CONFIDENCE INTERVAL = (-.3535, .4853)



GM FUEL ECONOMY STUDY

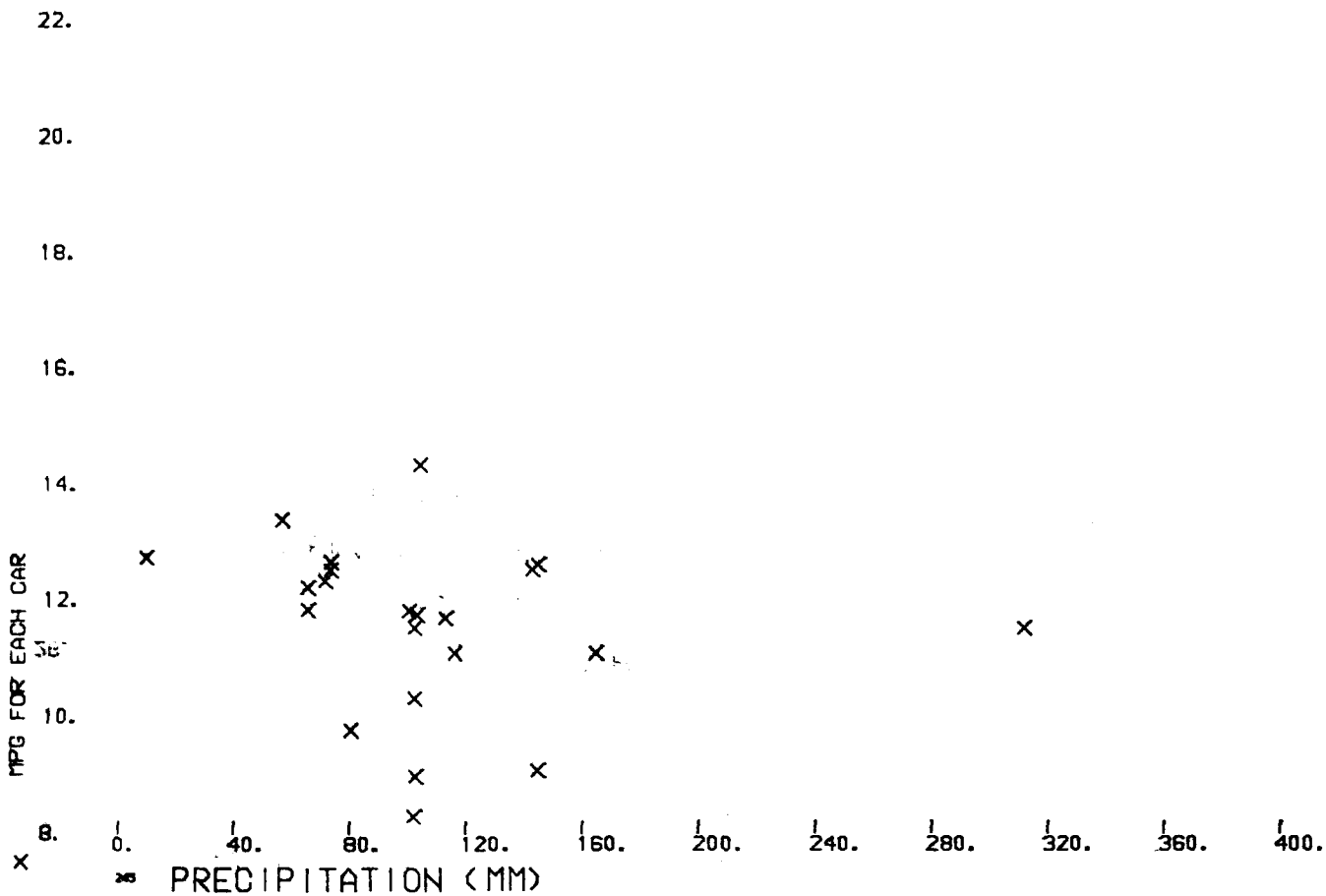
MPG VERSUS PRECIPITATION

CLASS 25251212

DATE 062476

CORRELATION COEFFICIENT =-.1840

95 PERCENT CONFIDENCE INTERVAL = (-.5620, .2576)



GM FUEL ECONOMY STUDY

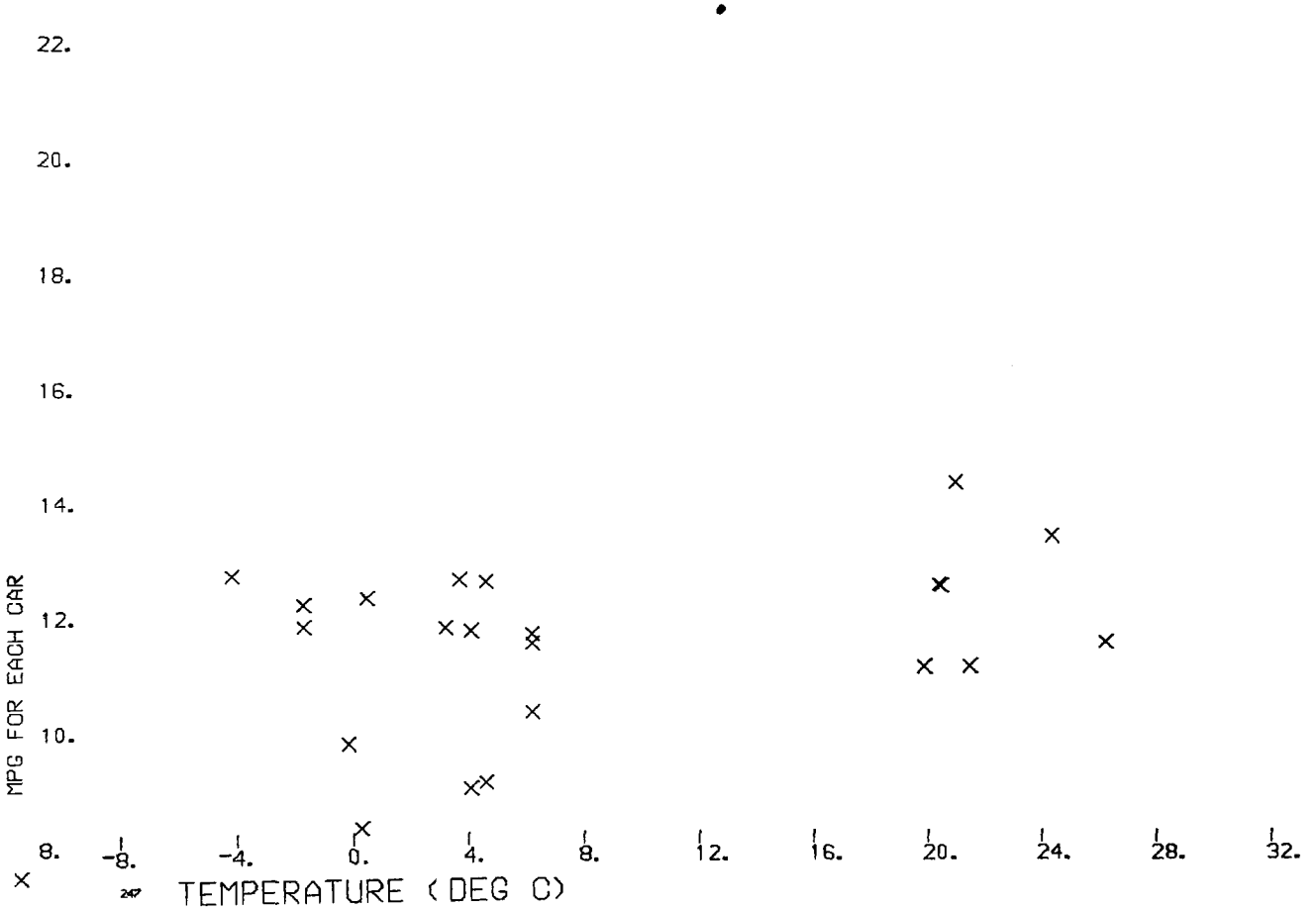
MPG VERSUS TEMPERATURE

CLASS 25251212

DATE 062476

CORRELATION COEFFICIENT = .3207

95 PERCENT CONFIDENCE INTERVAL = (-.1167, .6539)



GM FUEL ECONOMY STUDY

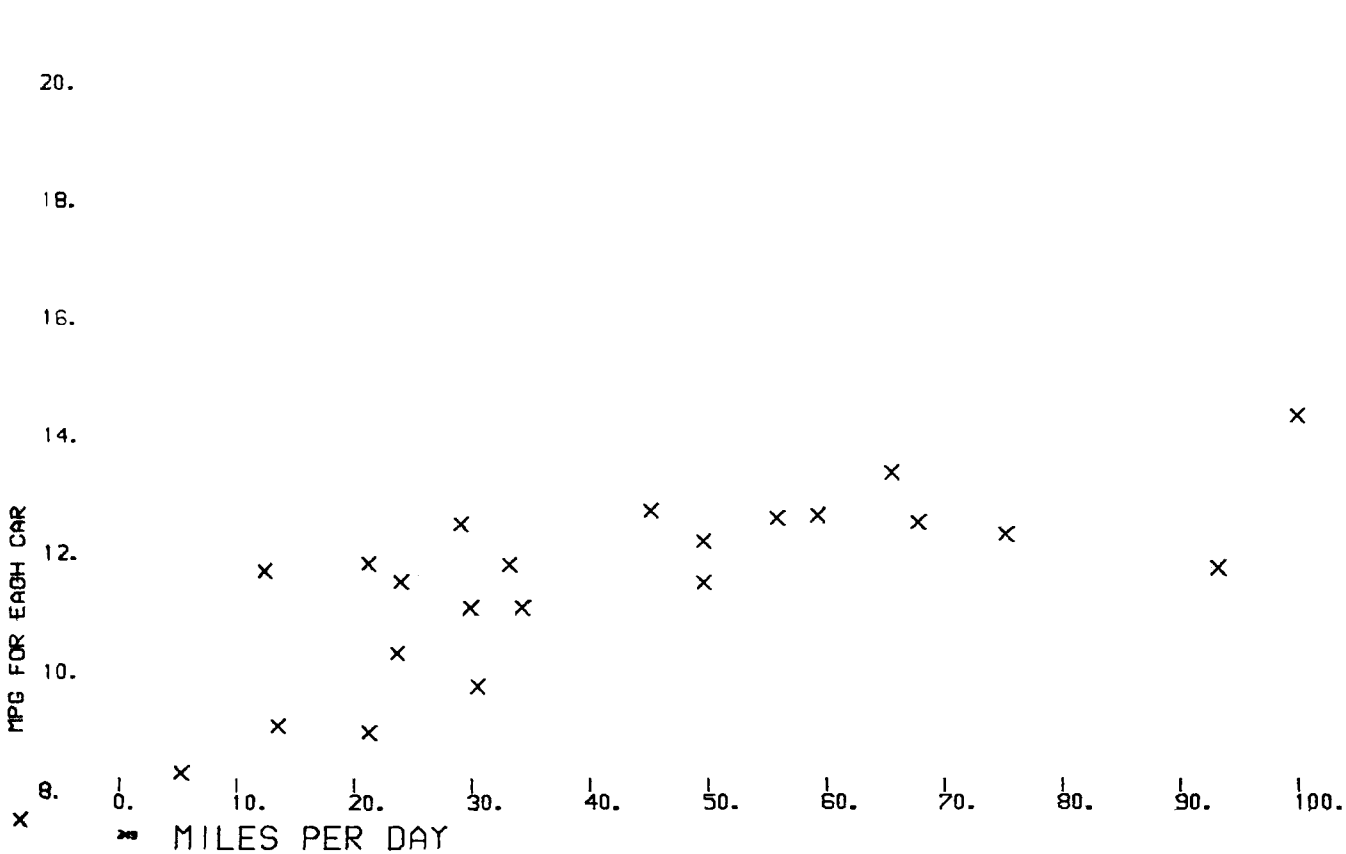
MPG VERSUS MILES PER DAY

CLASS 25251212

DATE 062476

CORRELATION COEFFICIENT = .7169

95 PERCENT CONFIDENCE INTERVAL = (.4232, .8743)



GM FUEL ECONOMY STUDY

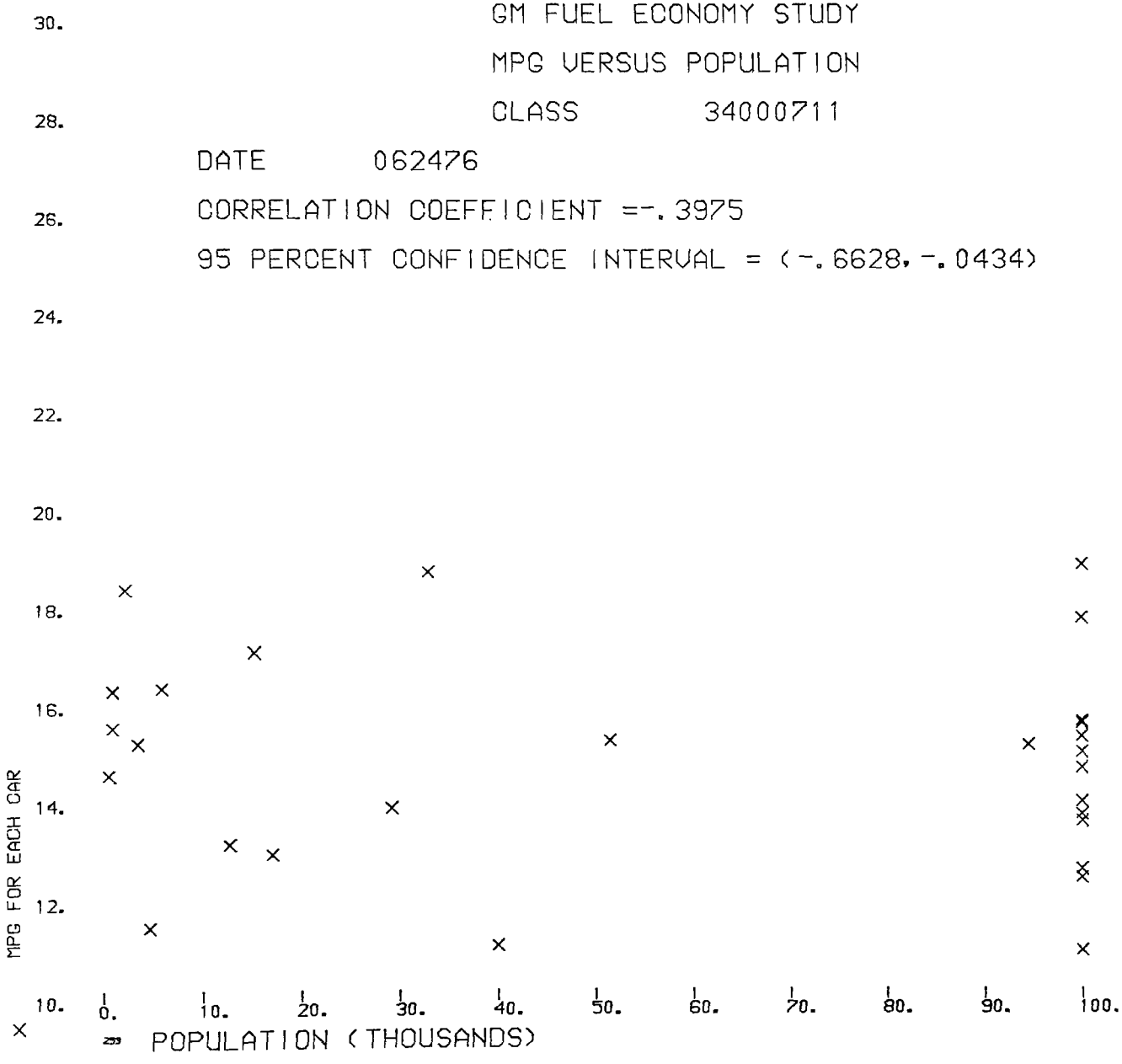
MPG VERSUS POPULATION

CLASS 34000711

DATE 062476

CORRELATION COEFFICIENT =-.3975

95 PERCENT CONFIDENCE INTERVAL = (-.6628, -.0434)



GM FUEL ECONOMY STUDY

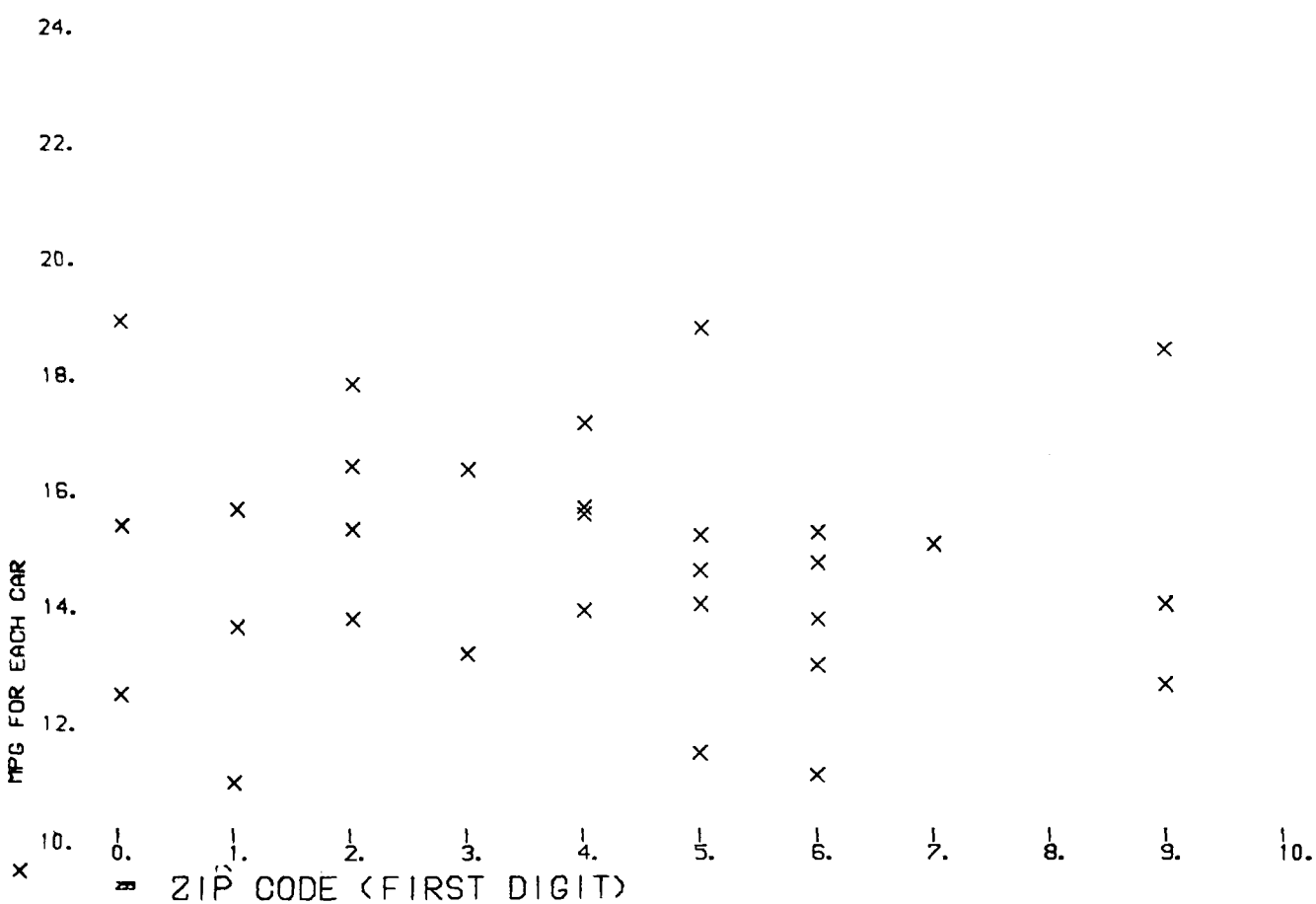
MPG VERSUS ZIP CODE

CLASS 34000711

DATE 062476

CORRELATION COEFFICIENT =-.0806

95 PERCENT CONFIDENCE INTERVAL = (-.4284, .2880)



GM FUEL ECONOMY STUDY

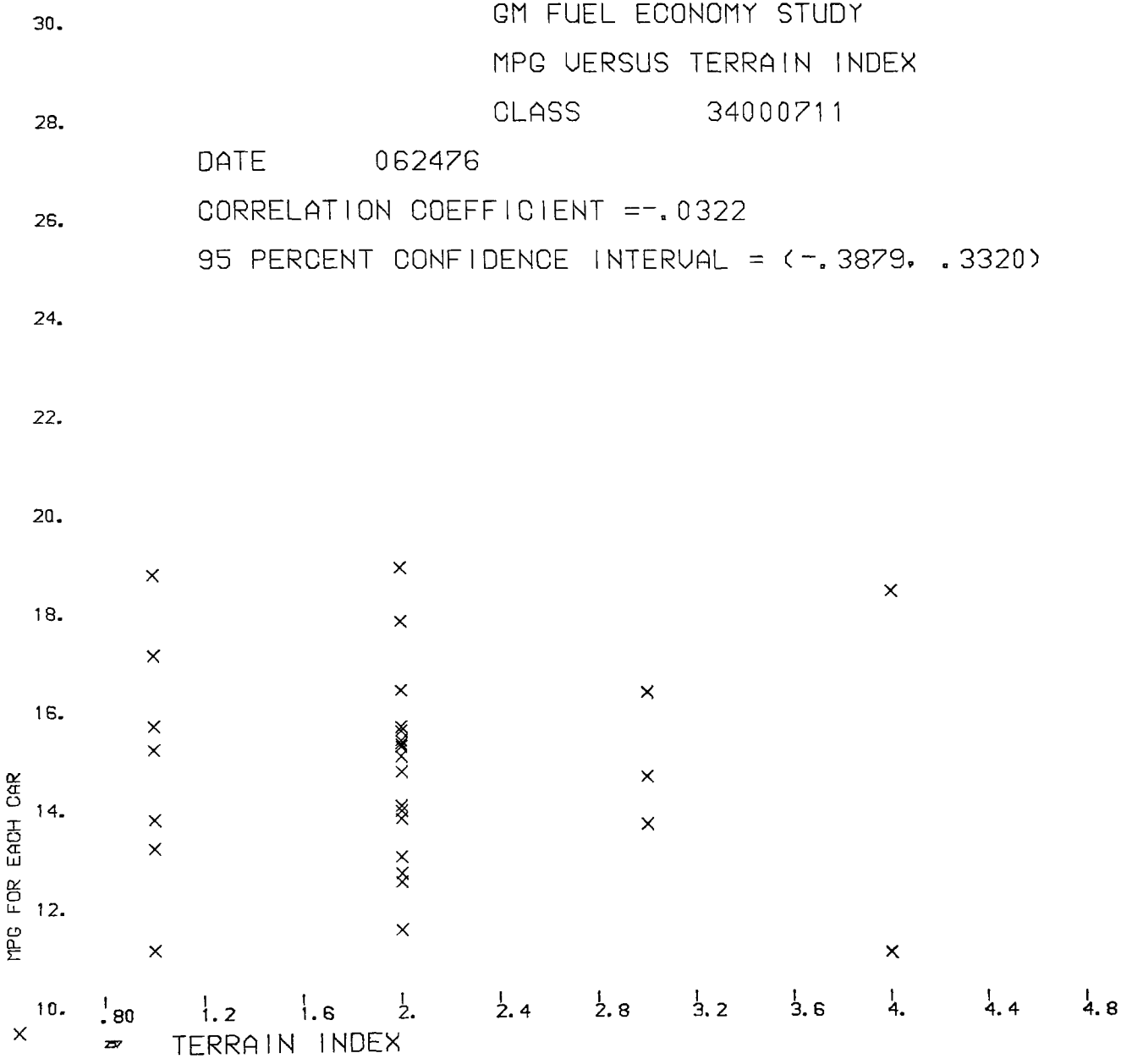
MPG VERSUS TERRAIN INDEX

CLASS 34000711

DATE 062476

CORRELATION COEFFICIENT =-.0322

95 PERCENT CONFIDENCE INTERVAL = (-.3879, .3320)



GM FUEL ECONOMY STUDY

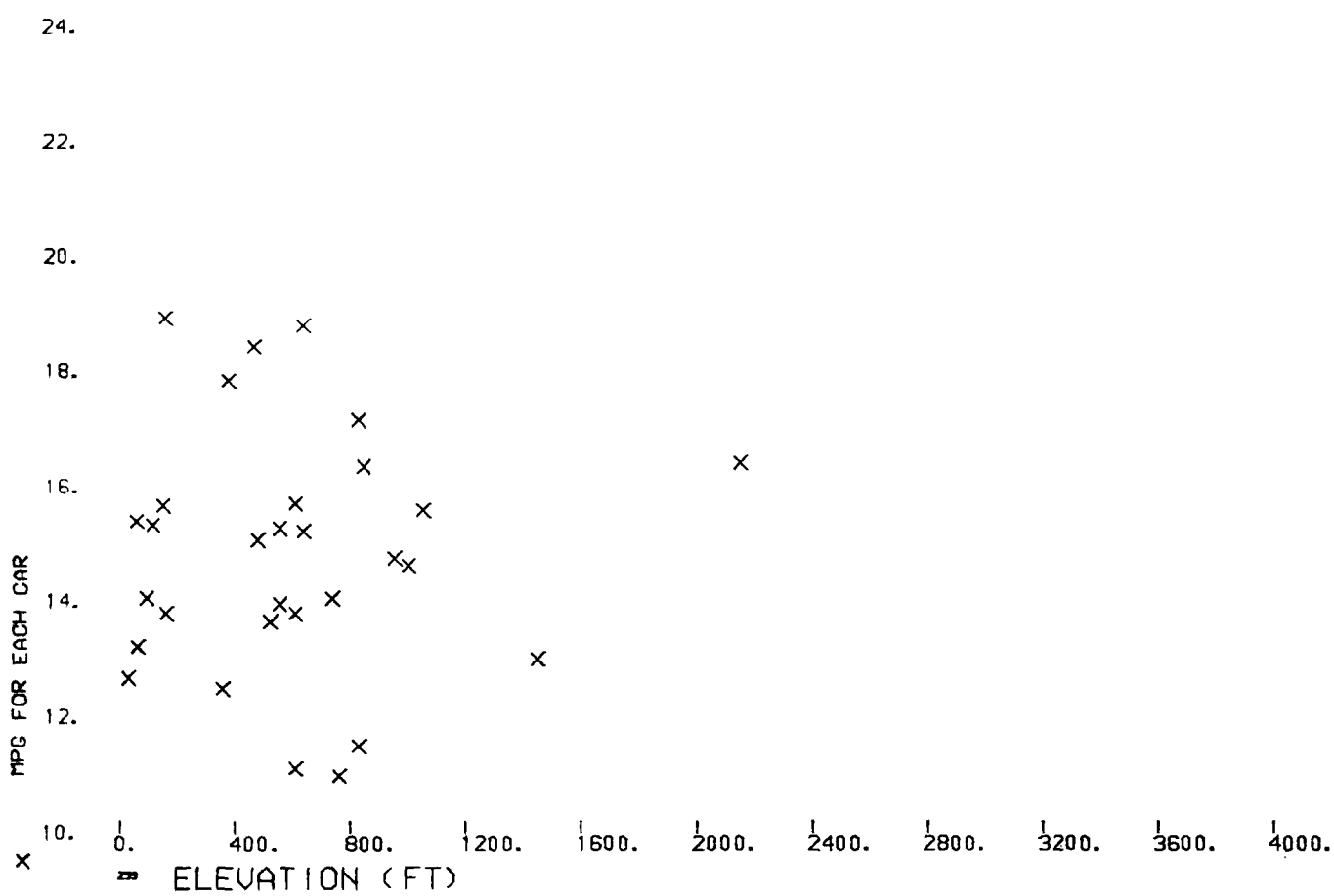
MPG VERSUS ELEVATION

CLASS 34000711

DATE 062476

CORRELATION COEFFICIENT = .0128

95 PERCENT CONFIDENCE INTERVAL = (-.3491, .3714)



GM FUEL ECONOMY STUDY

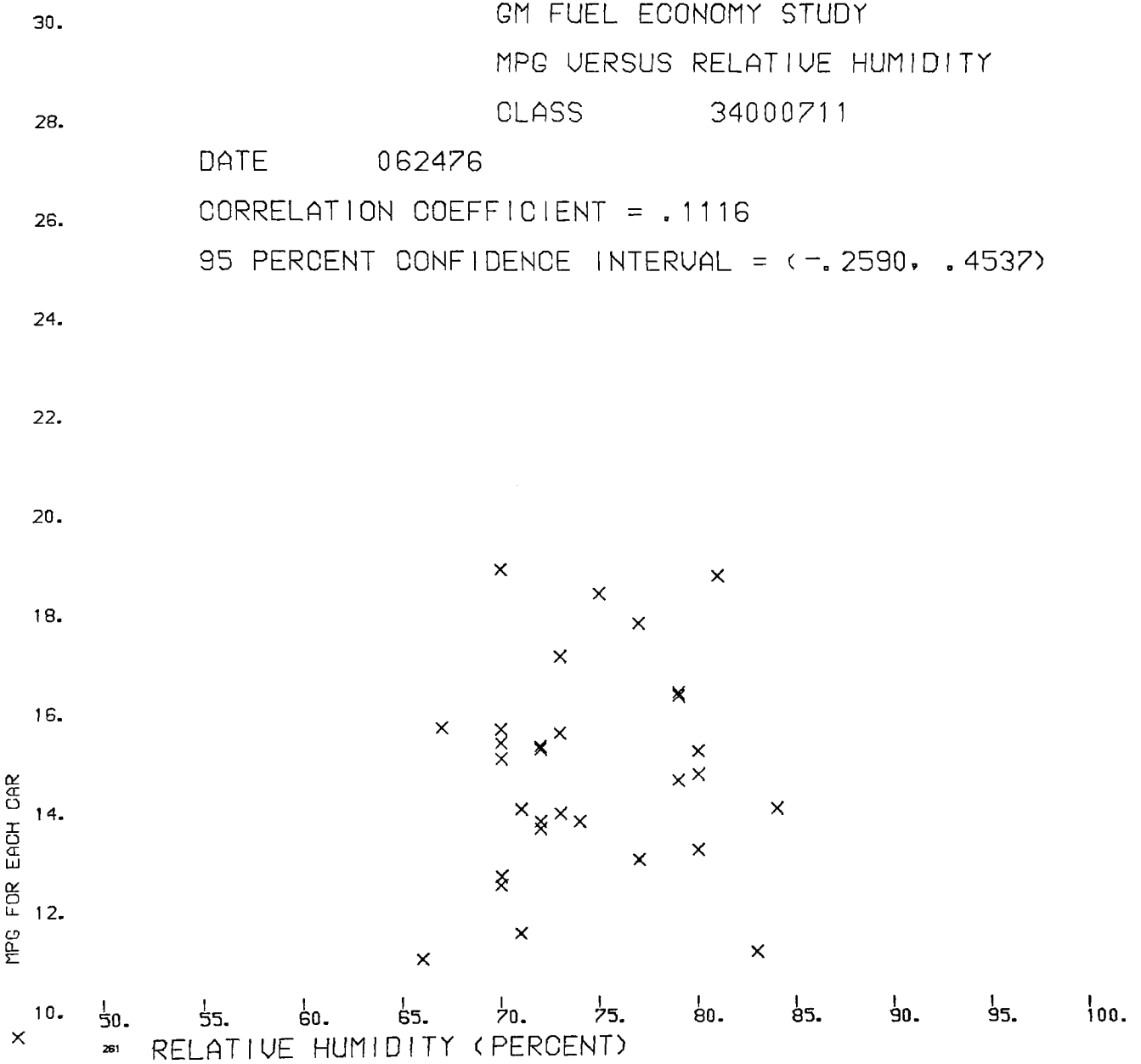
MPG VERSUS RELATIVE HUMIDITY

CLASS 34000711

DATE 062476

CORRELATION COEFFICIENT = .1116

95 PERCENT CONFIDENCE INTERVAL = (-.2590, .4537)



GM FUEL ECONOMY STUDY

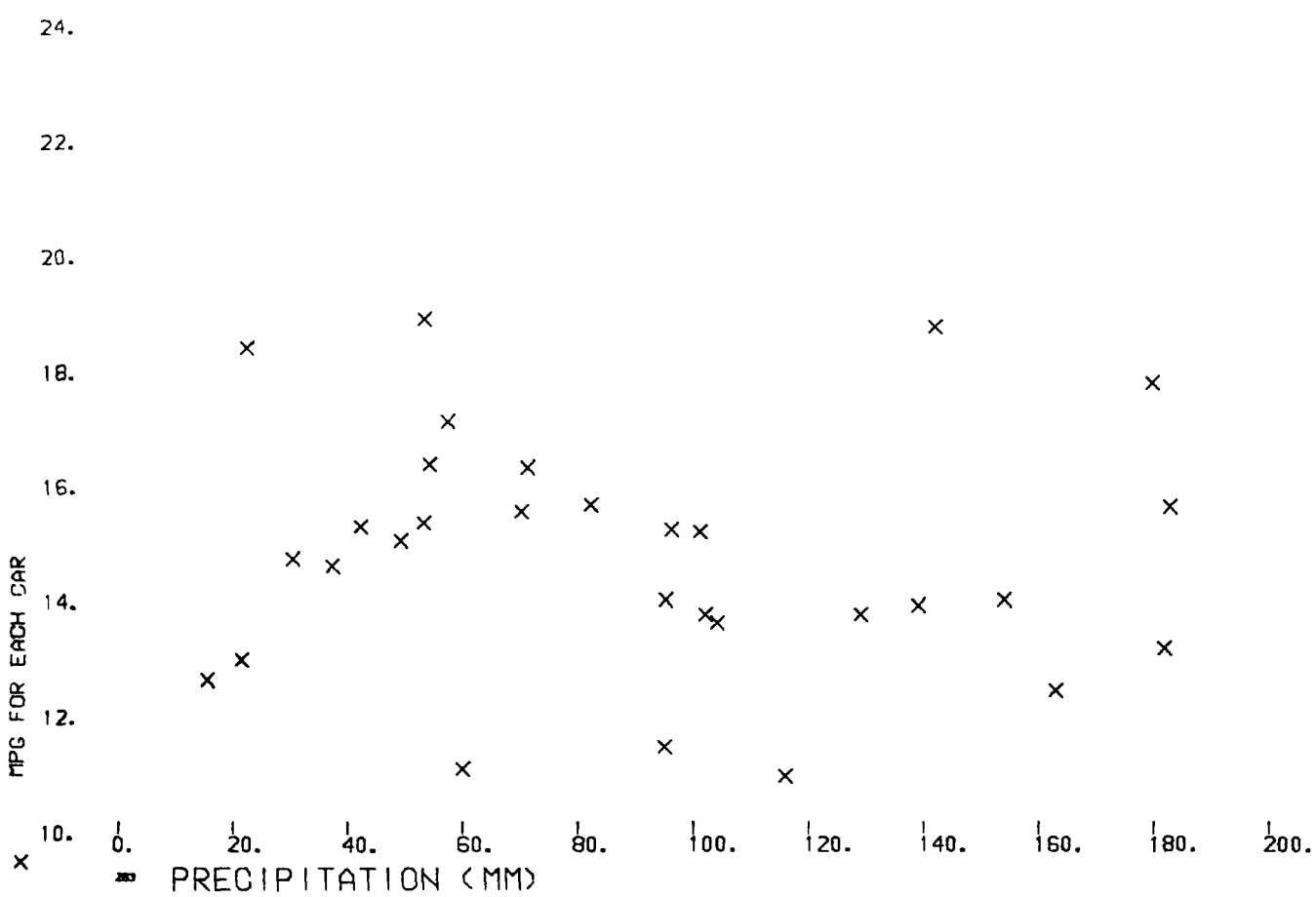
MPG VERSUS PRECIPITATION

CLASS 34000711

DATE 062476

CORRELATION COEFFICIENT =-.0855

95 PERCENT CONFIDENCE INTERVAL = (-.4324, .2835)



GM FUEL ECONOMY STUDY

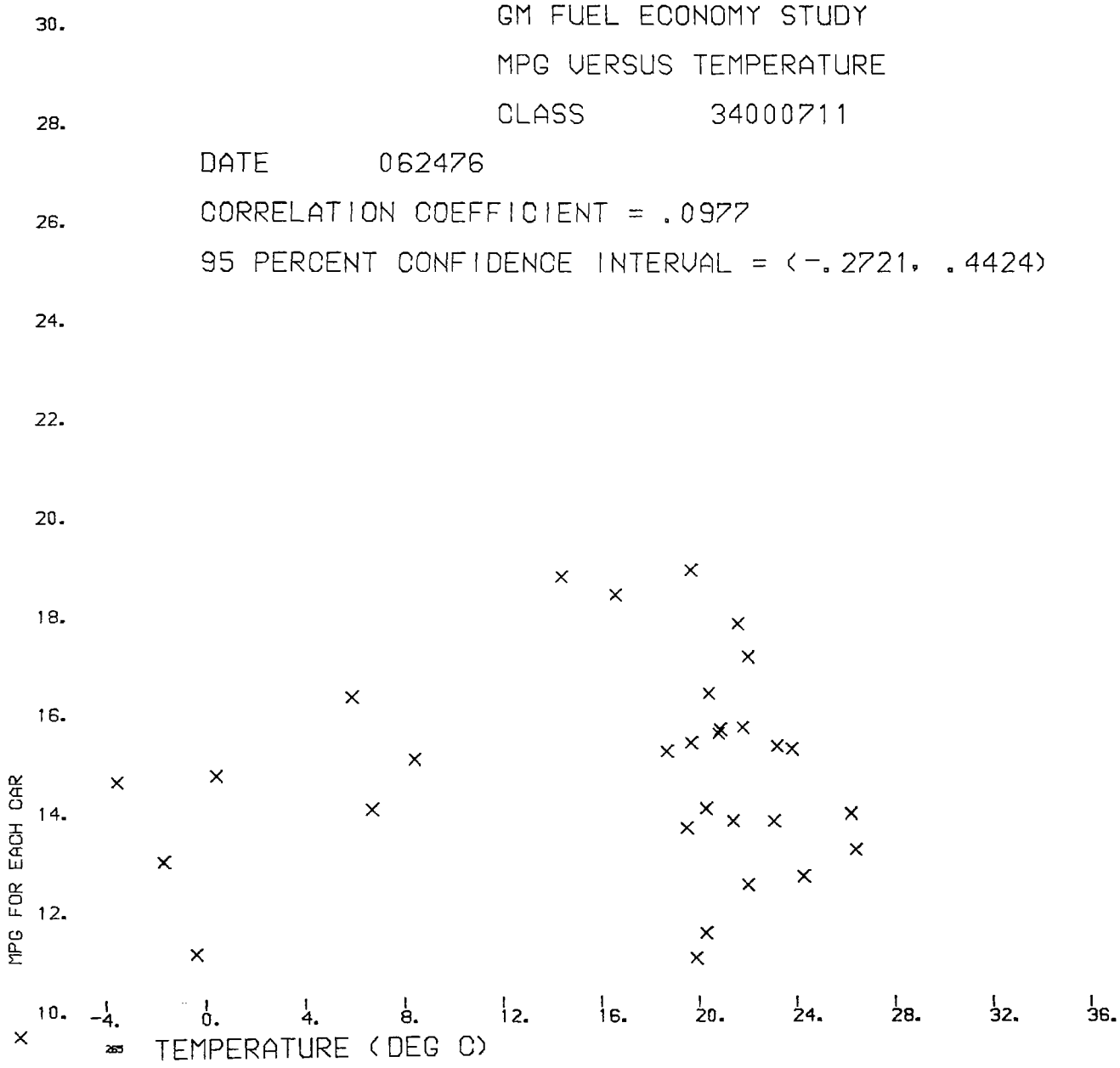
MPG VERSUS TEMPERATURE

CLASS 34000711

DATE 062476

CORRELATION COEFFICIENT = .0977

95 PERCENT CONFIDENCE INTERVAL = (-.2721, .4424)



GM FUEL ECONOMY STUDY

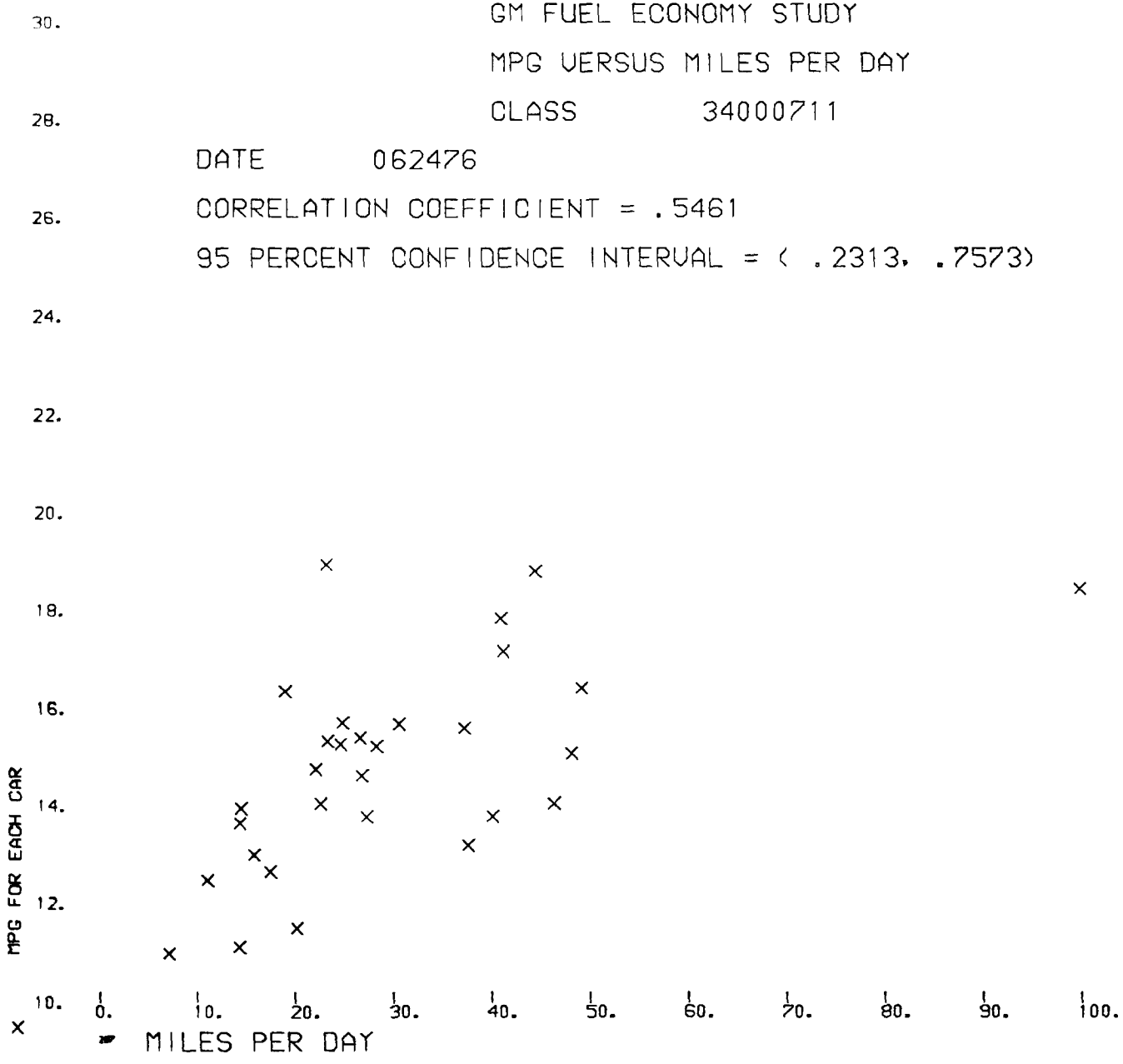
MPG VERSUS MILES PER DAY

CLASS 34000711

DATE 062476

CORRELATION COEFFICIENT = .5461

95 PERCENT CONFIDENCE INTERVAL = (.2313, .7573)



GM FUEL ECONOMY STUDY

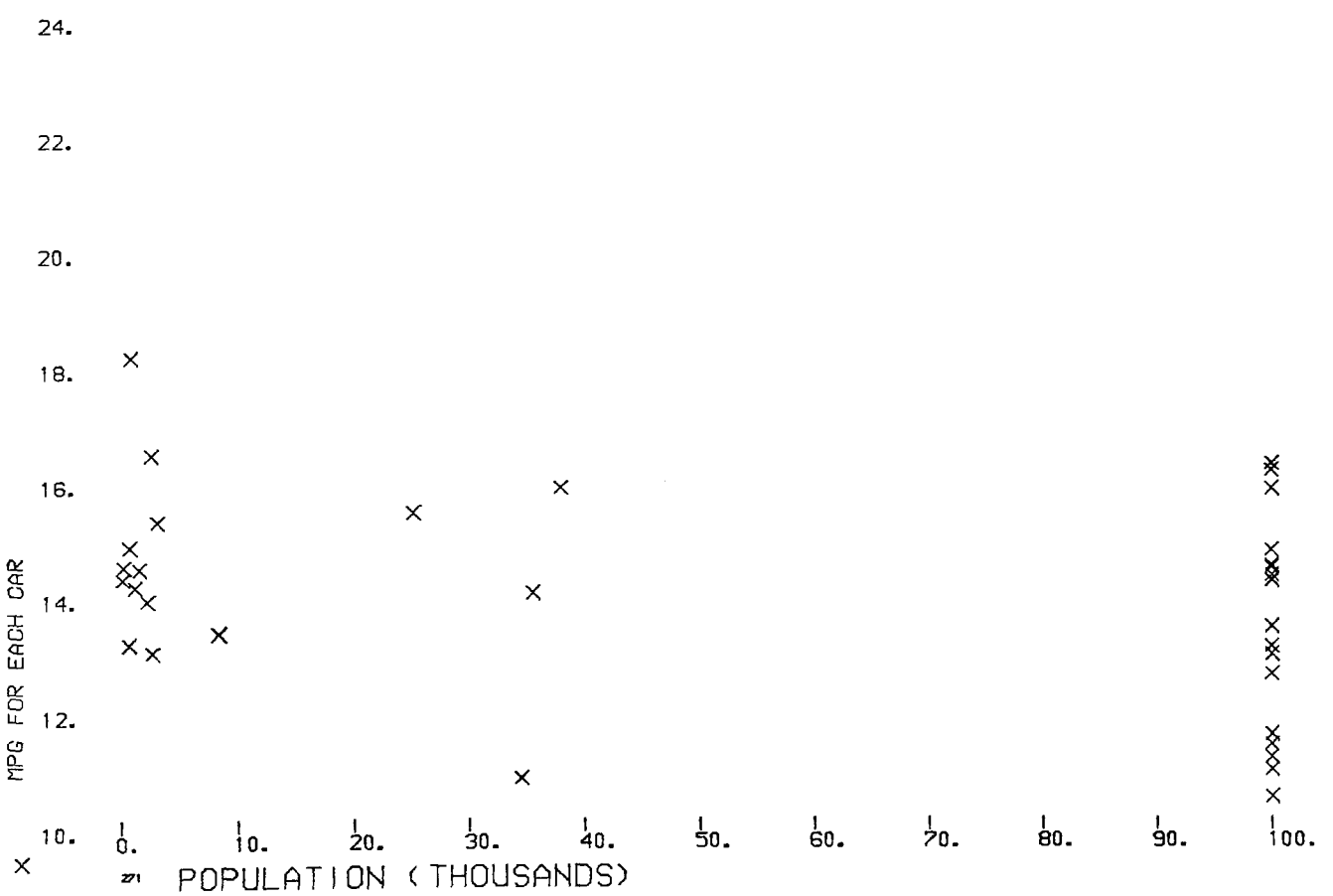
MPG VERSUS POPULATION

CLASS 34501011

DATE 062476

CORRELATION COEFFICIENT = .0192

95 PERCENT CONFIDENCE INTERVAL = (-.3160, .3502)



GM FUEL ECONOMY STUDY

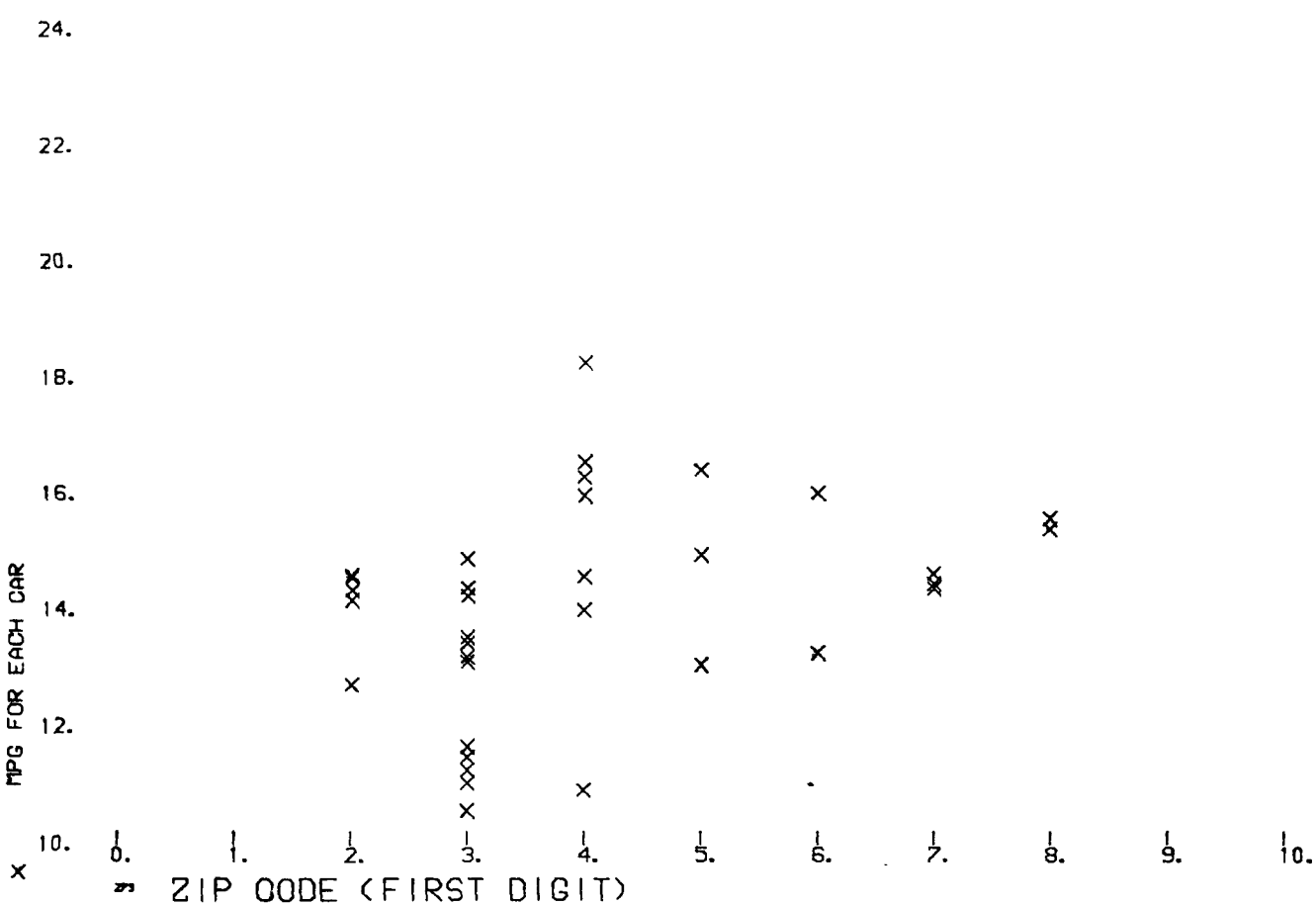
MPG VERSUS ZIP CODE

CLASS 34501011

DATE 062476

CORRELATION COEFFICIENT = .3412

95 PERCENT CONFIDENCE INTERVAL = (.0090, .6056)



GM FUEL ECONOMY STUDY

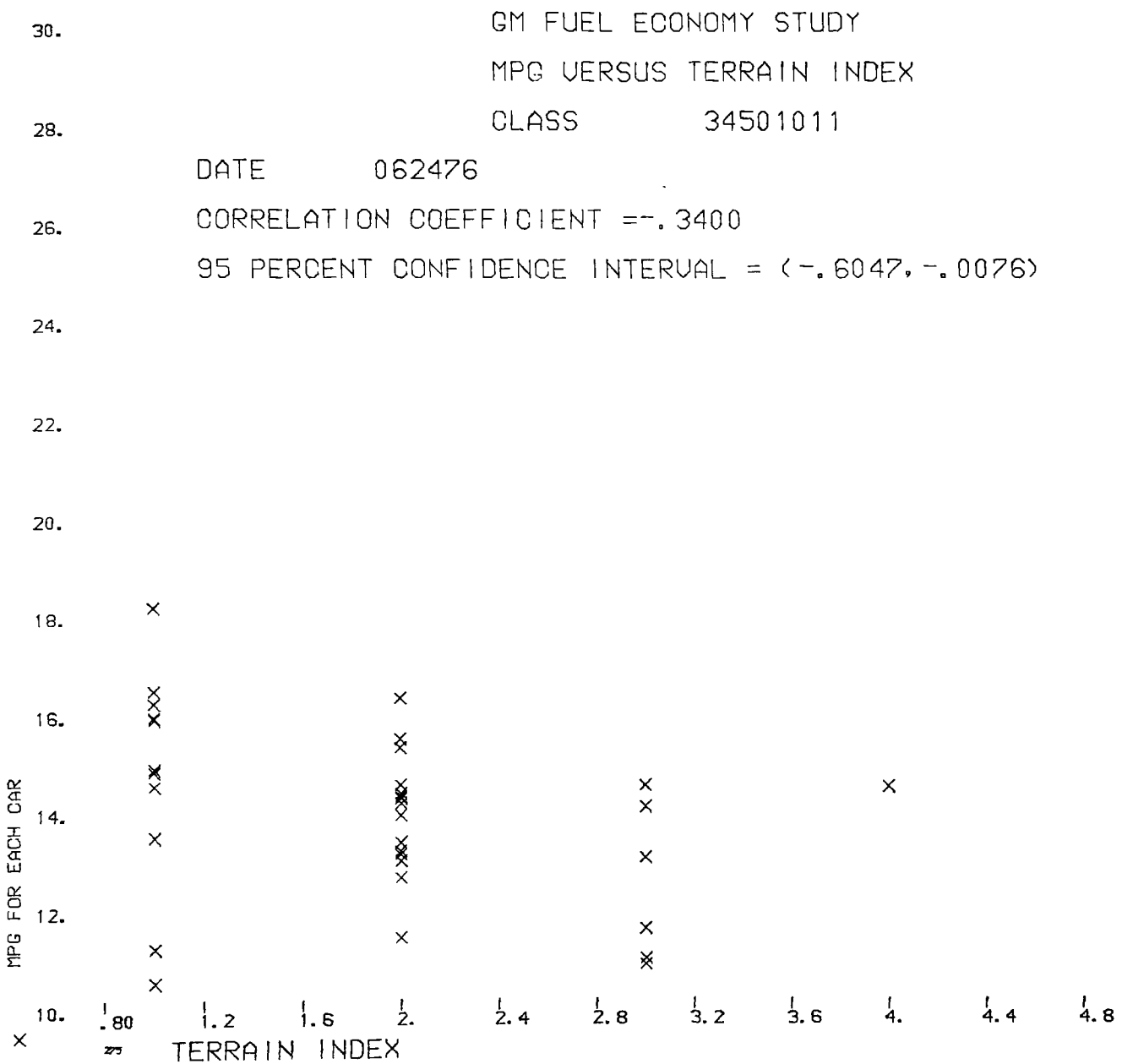
MPG VERSUS TERRAIN INDEX

CLASS 34501011

DATE 062476

CORRELATION COEFFICIENT =-.3400

95 PERCENT CONFIDENCE INTERVAL = (-.6047, -.0076)



GM FUEL ECONOMY STUDY

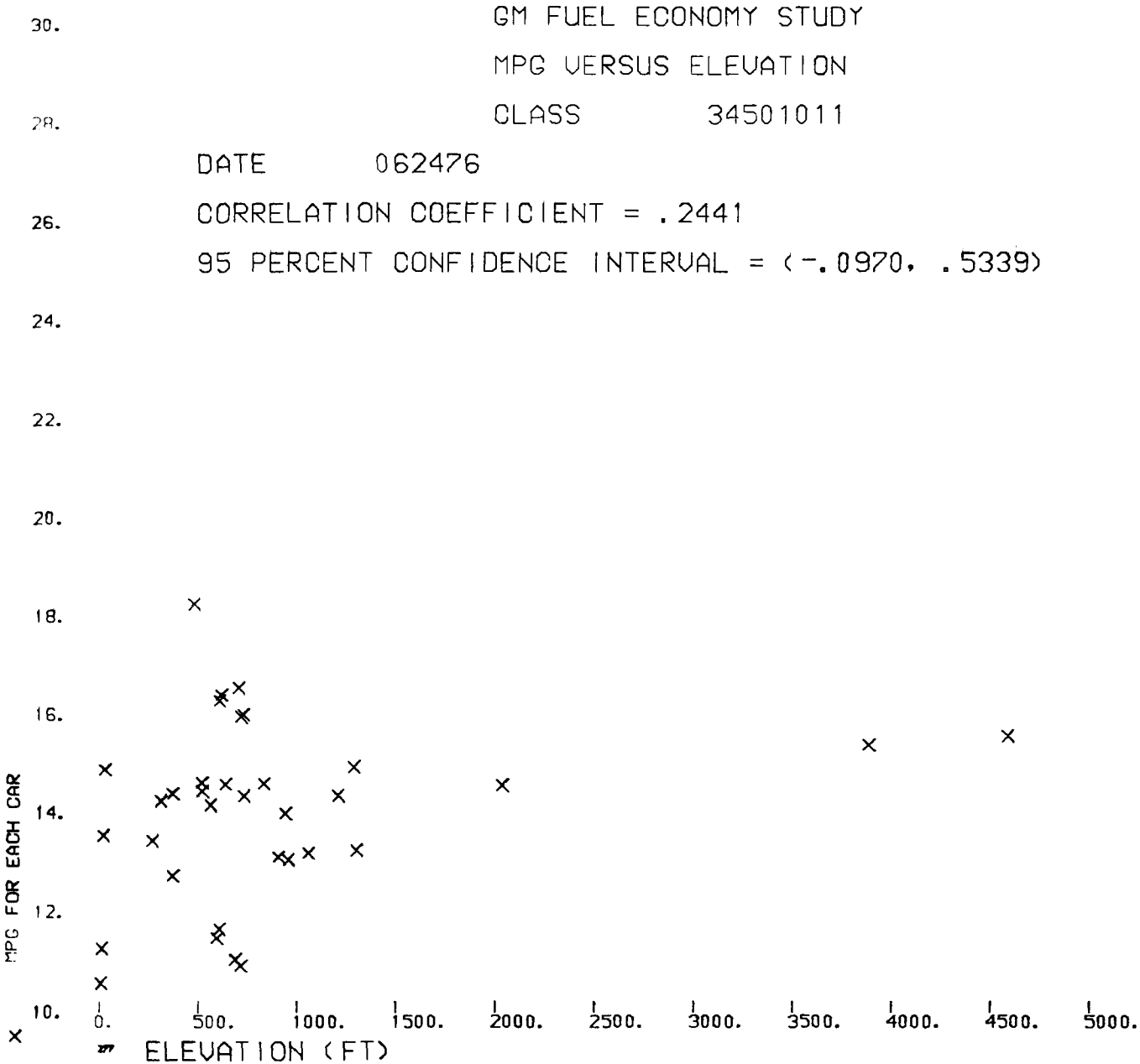
MPG VERSUS ELEVATION

CLASS 34501011

DATE 062476

CORRELATION COEFFICIENT = .2441

95 PERCENT CONFIDENCE INTERVAL = (-.0970, .5339)



GM FUEL ECONOMY STUDY

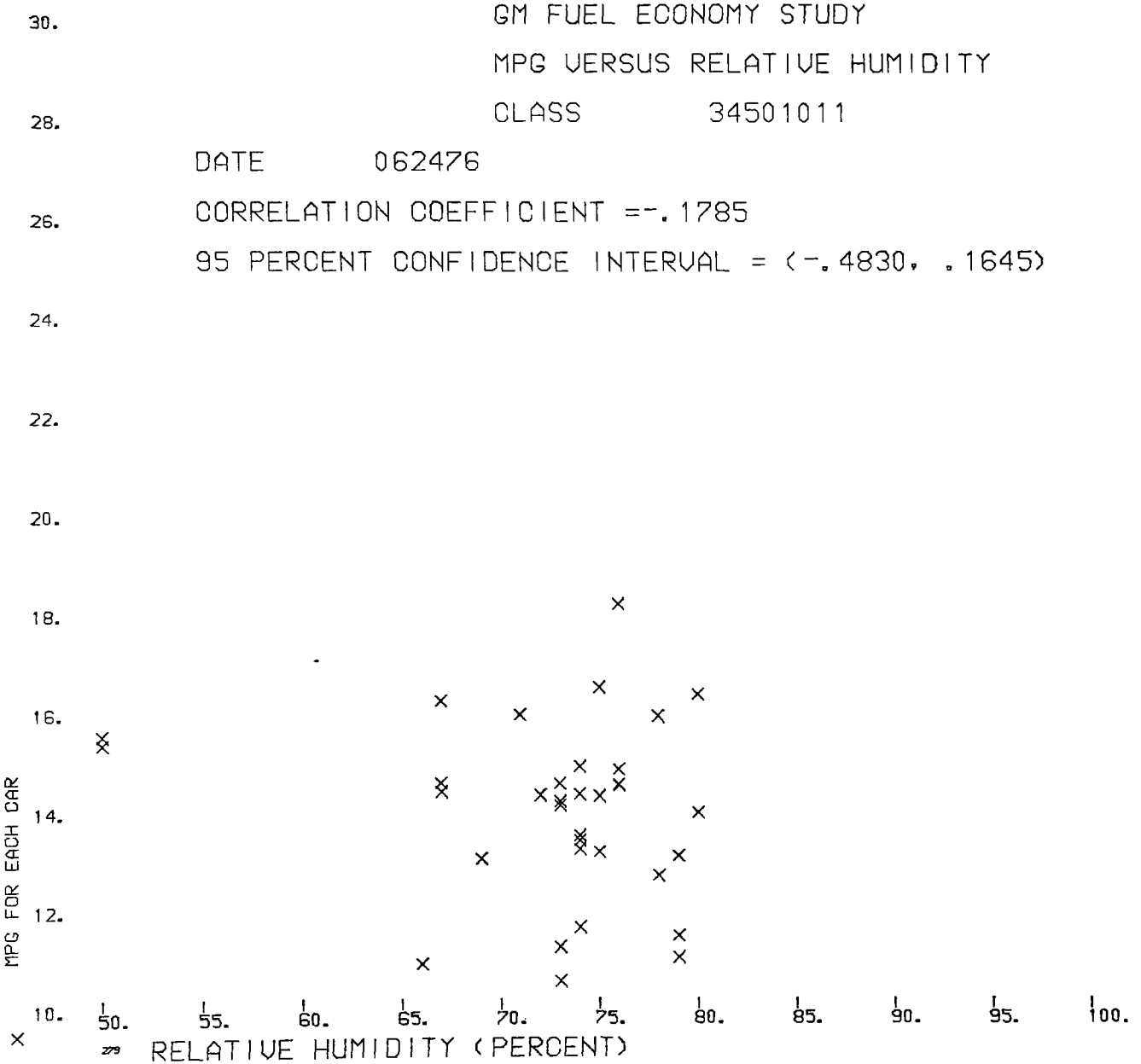
MPG VERSUS RELATIVE HUMIDITY

CLASS 34501011

DATE 062476

CORRELATION COEFFICIENT =-.1785

95 PERCENT CONFIDENCE INTERVAL = (-.4830, .1645)



GM FUEL ECONOMY STUDY

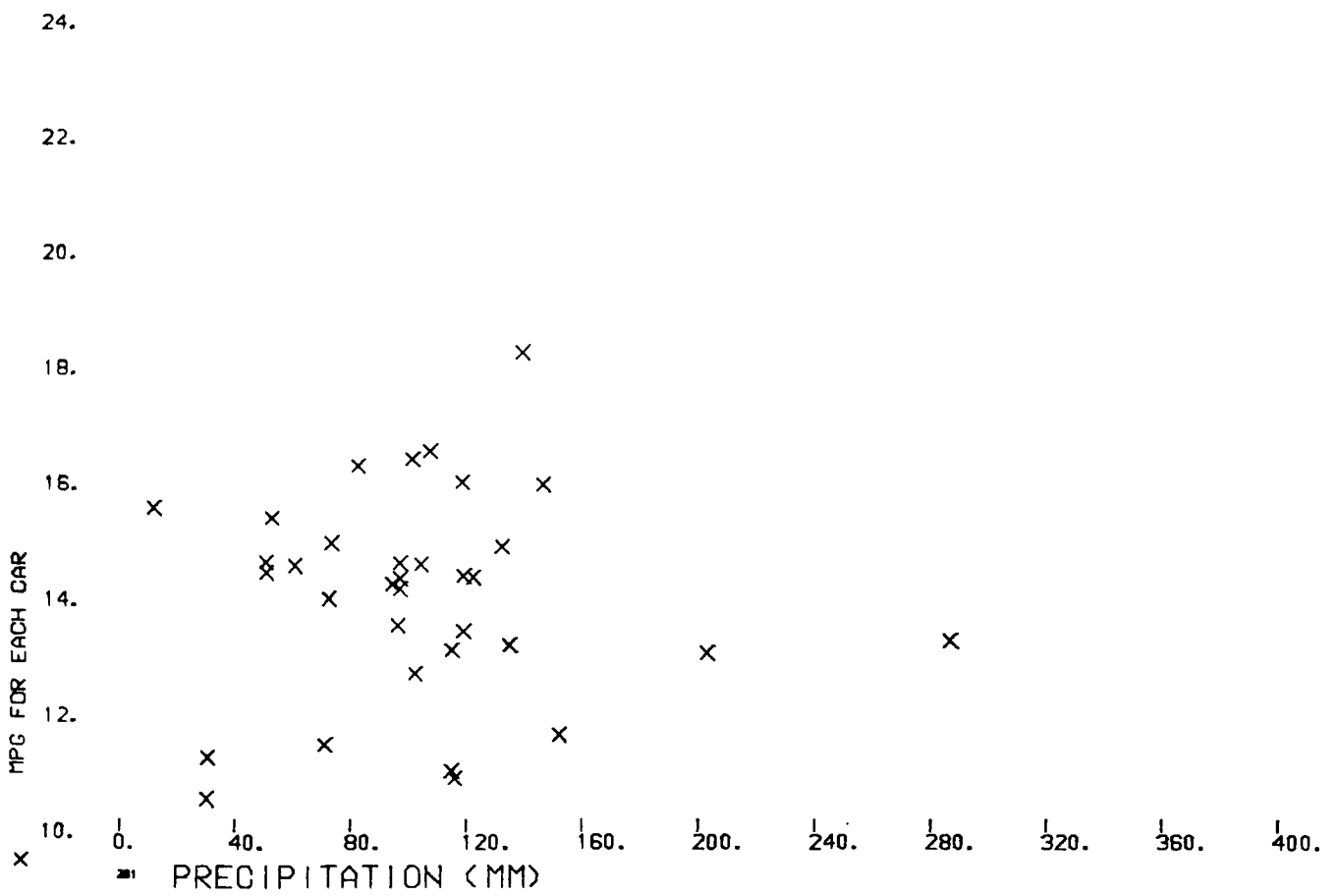
MPG VERSUS PRECIPITATION

CLASS 34501011

DATE 062476

CORRELATION COEFFICIENT =-.0085

95 PERCENT CONFIDENCE INTERVAL = (-.3408, .3257)



GM FUEL ECONOMY STUDY

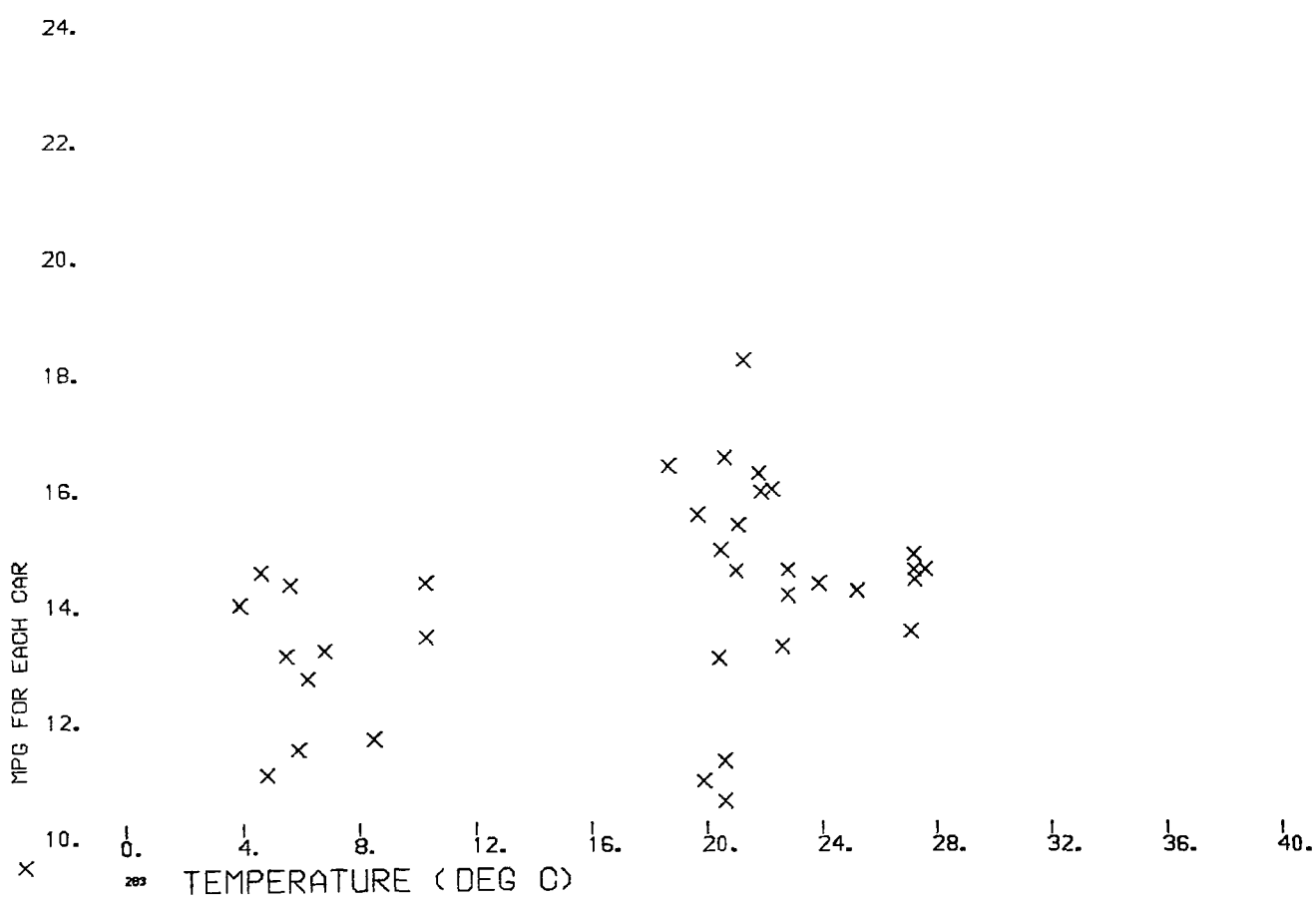
MPG VERSUS TEMPERATURE

CLASS 34501011

DATE 062476

CORRELATION COEFFICIENT = .3639

95 PERCENT CONFIDENCE INTERVAL = (.0349, .6218)



GM FUEL ECONOMY STUDY

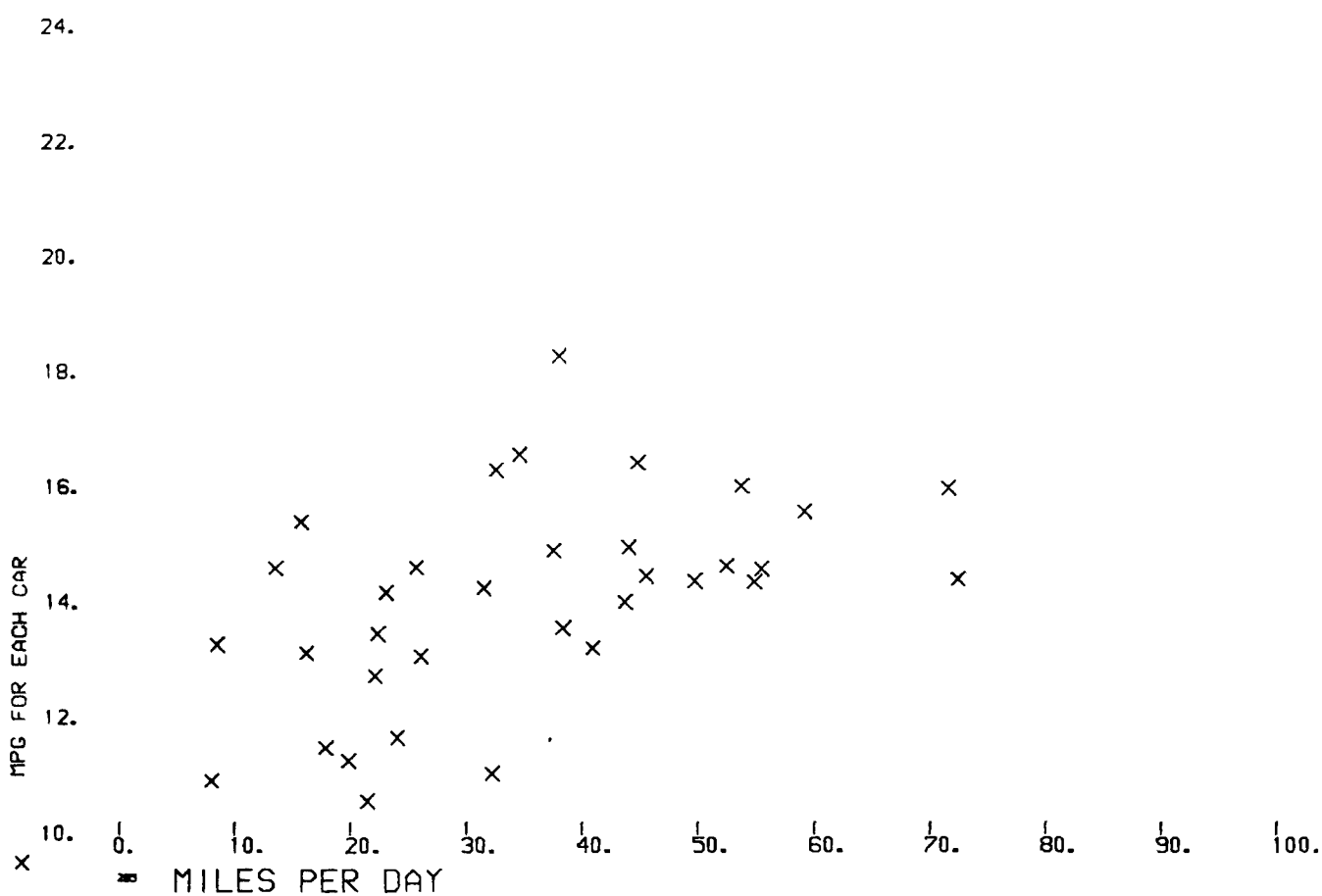
MPG VERSUS MILES PER DAY

CLASS 34501011

DATE 062476

CORRELATION COEFFICIENT = .5010

95 PERCENT CONFIDENCE INTERVAL = (.2014, .7149)



GM FUEL ECONOMY STUDY

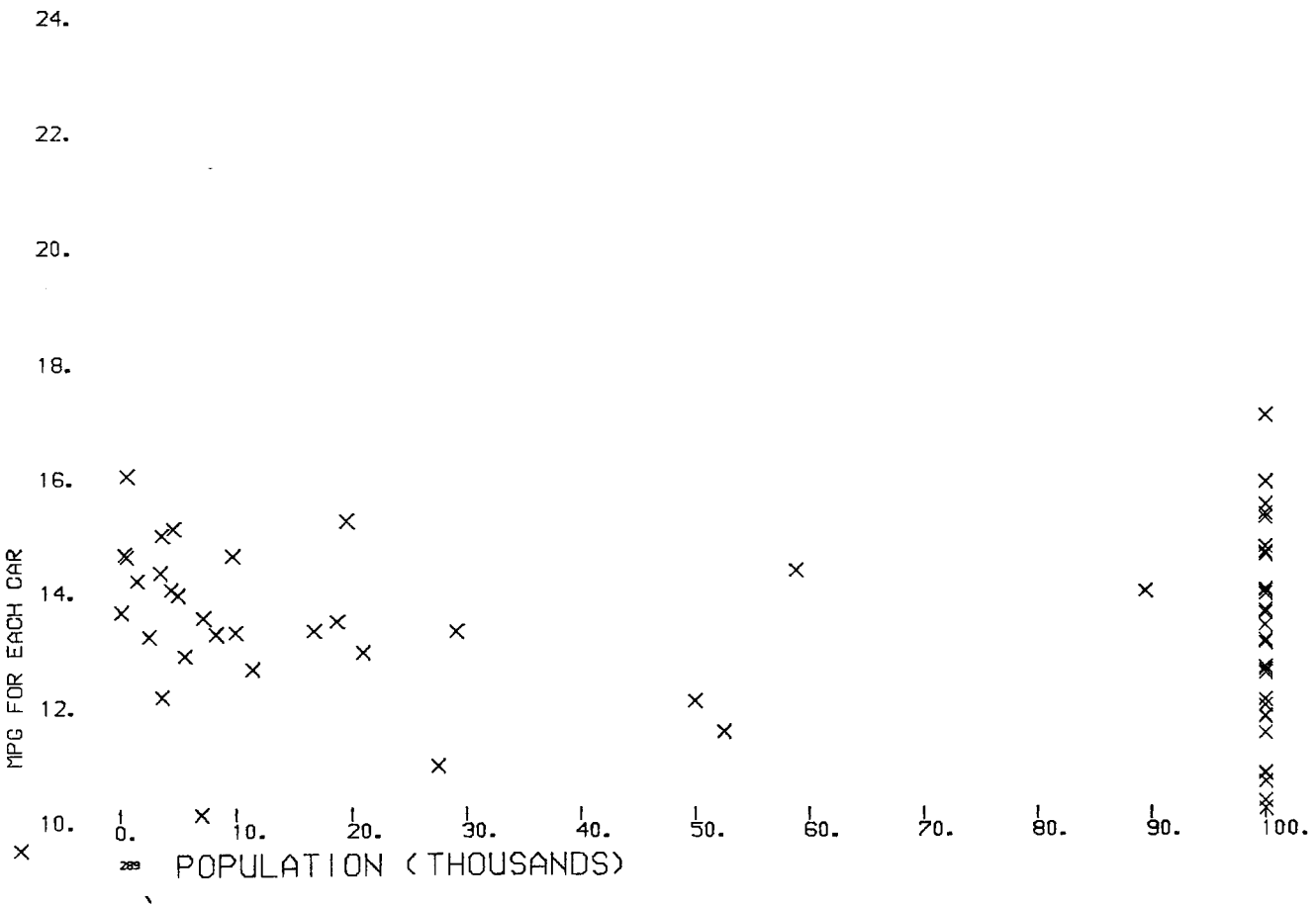
MPG VERSUS POPULATION

CLASS 35251012

DATE 062476

CORRELATION COEFFICIENT = .0826

95 PERCENT CONFIDENCE INTERVAL = (-.1772, .3317)



GM FUEL ECONOMY STUDY

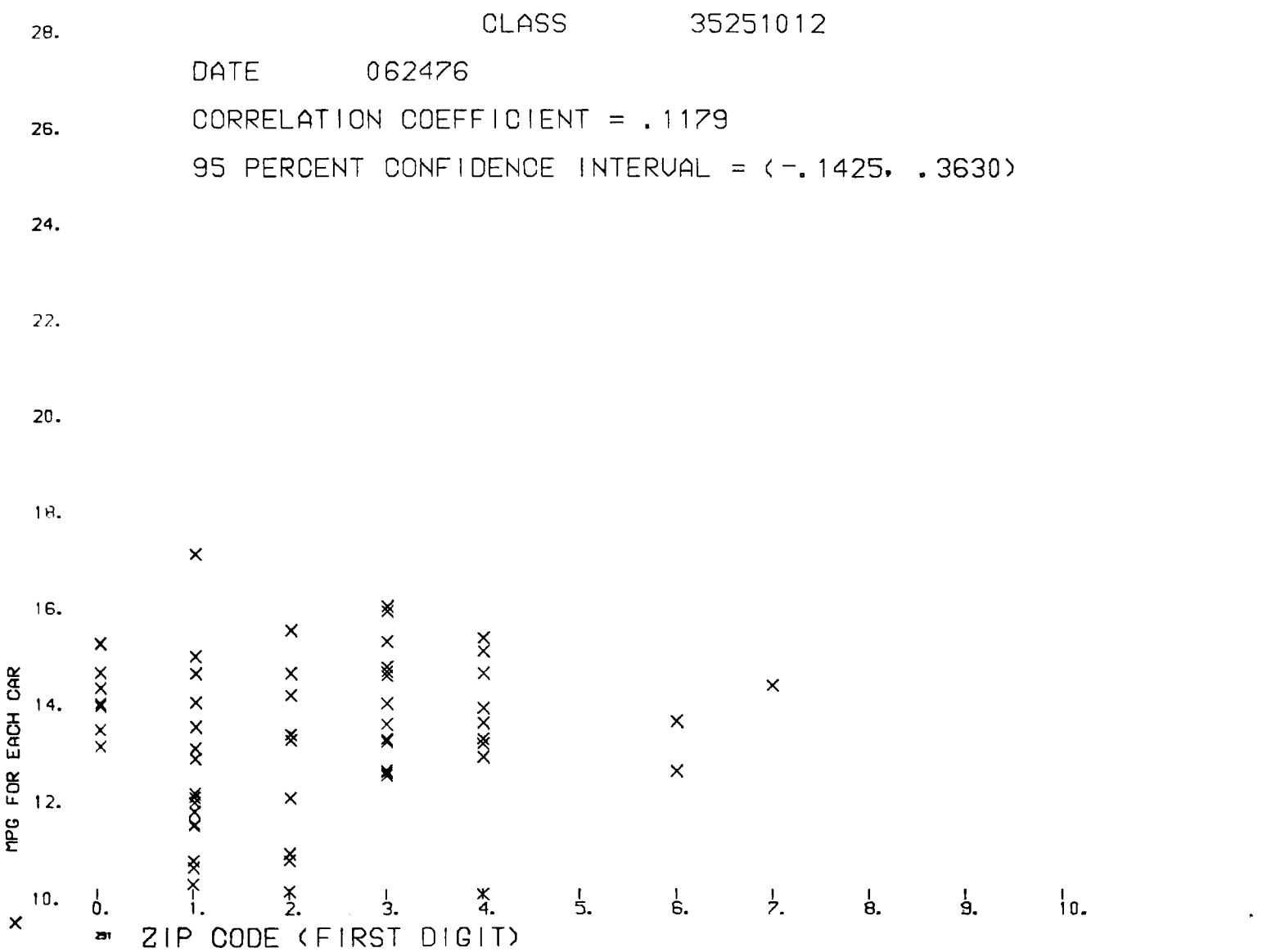
MPG VERSUS ZIP CODE

CLASS 35251012

DATE 062476

CORRELATION COEFFICIENT = .1179

95 PERCENT CONFIDENCE INTERVAL = (-.1425, .3630)



GM FUEL ECONOMY STUDY

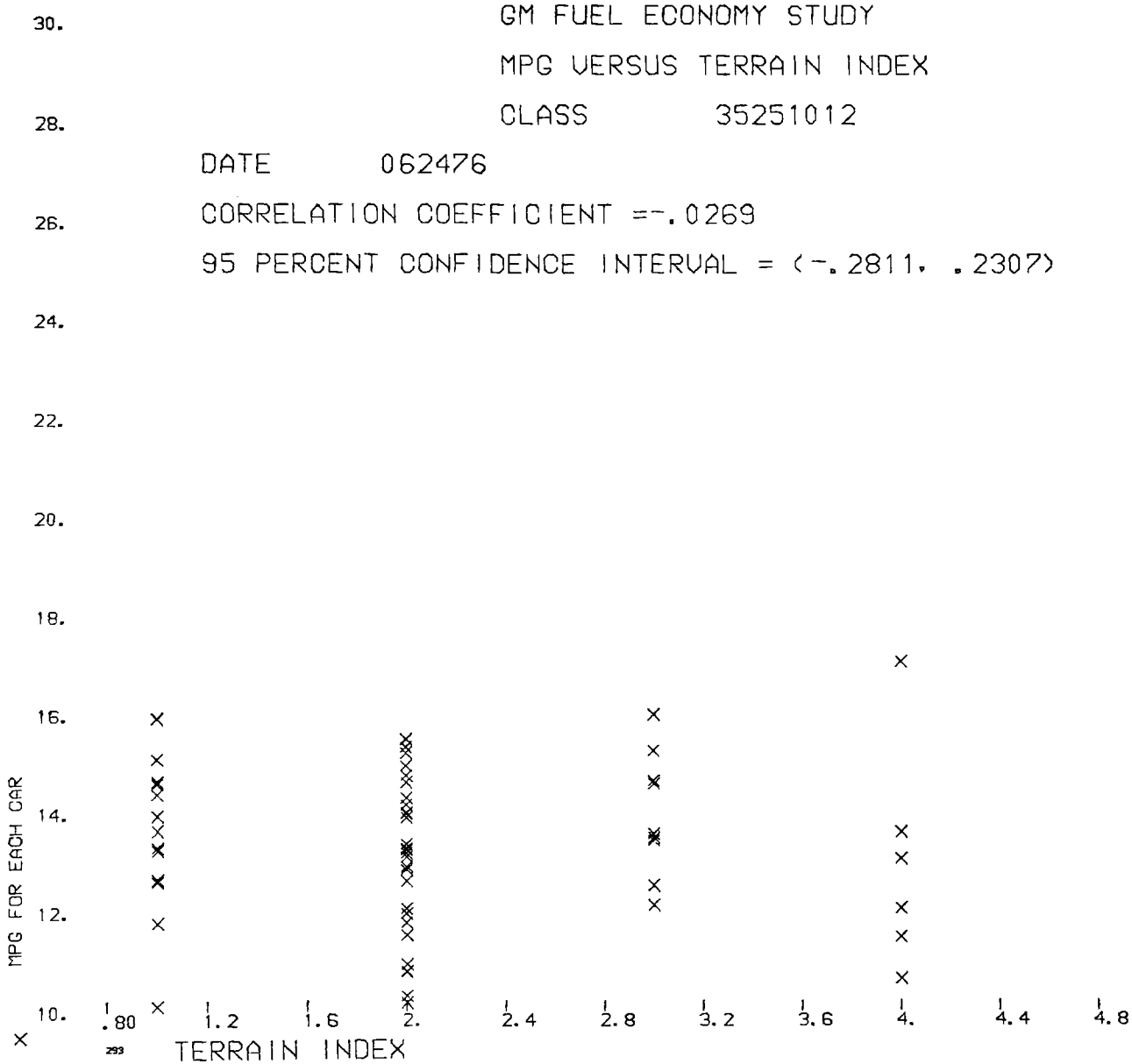
MPG VERSUS TERRAIN INDEX

CLASS 35251012

DATE 062476

CORRELATION COEFFICIENT =-.0269

95 PERCENT CONFIDENCE INTERVAL = (-.2811, .2307)



GM FUEL ECONOMY STUDY

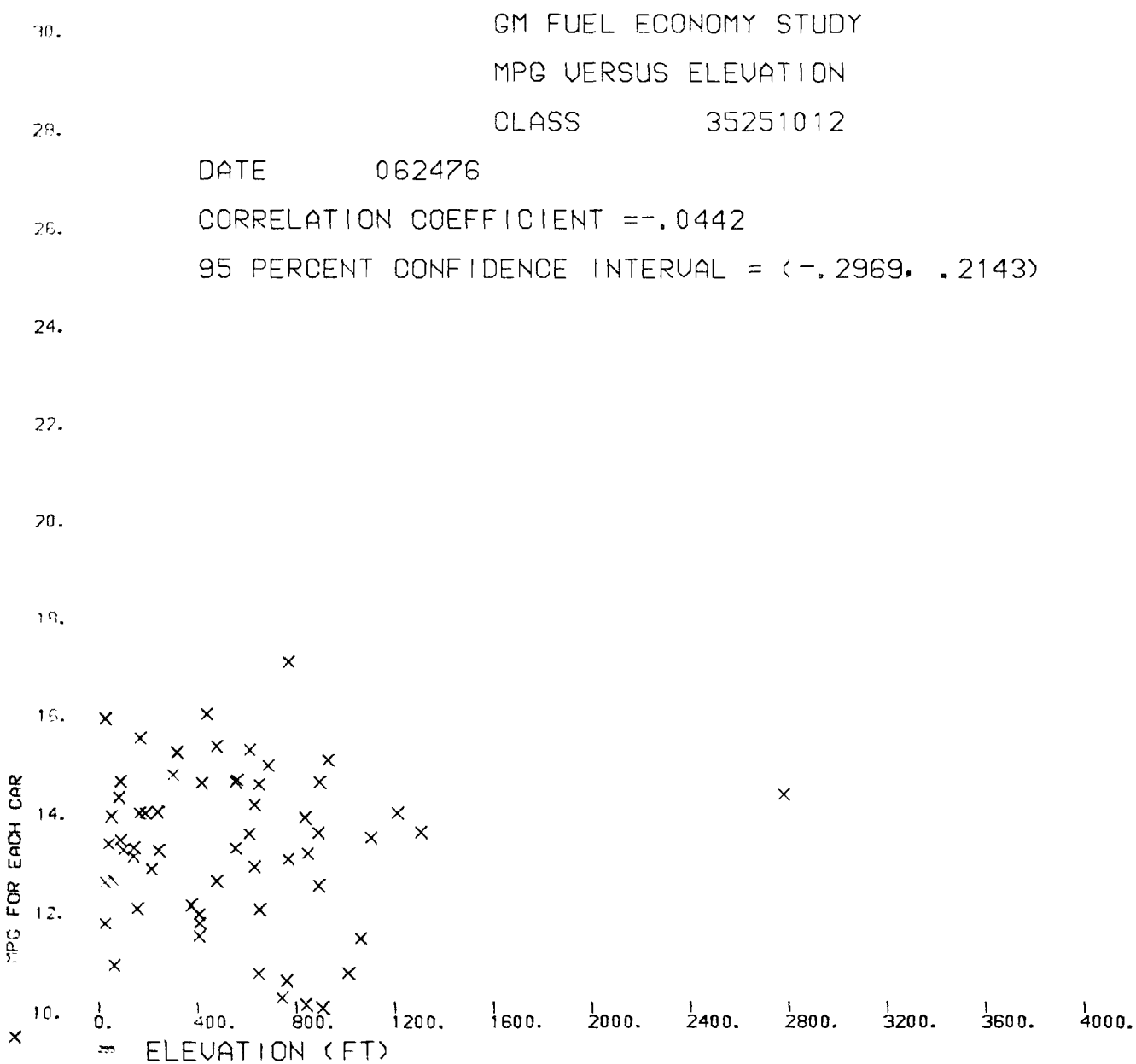
MPG VERSUS ELEVATION

CLASS 35251012

DATE 062476

CORRELATION COEFFICIENT =-.0442

95 PERCENT CONFIDENCE INTERVAL = (-.2969, .2143)



GM FUEL ECONOMY STUDY

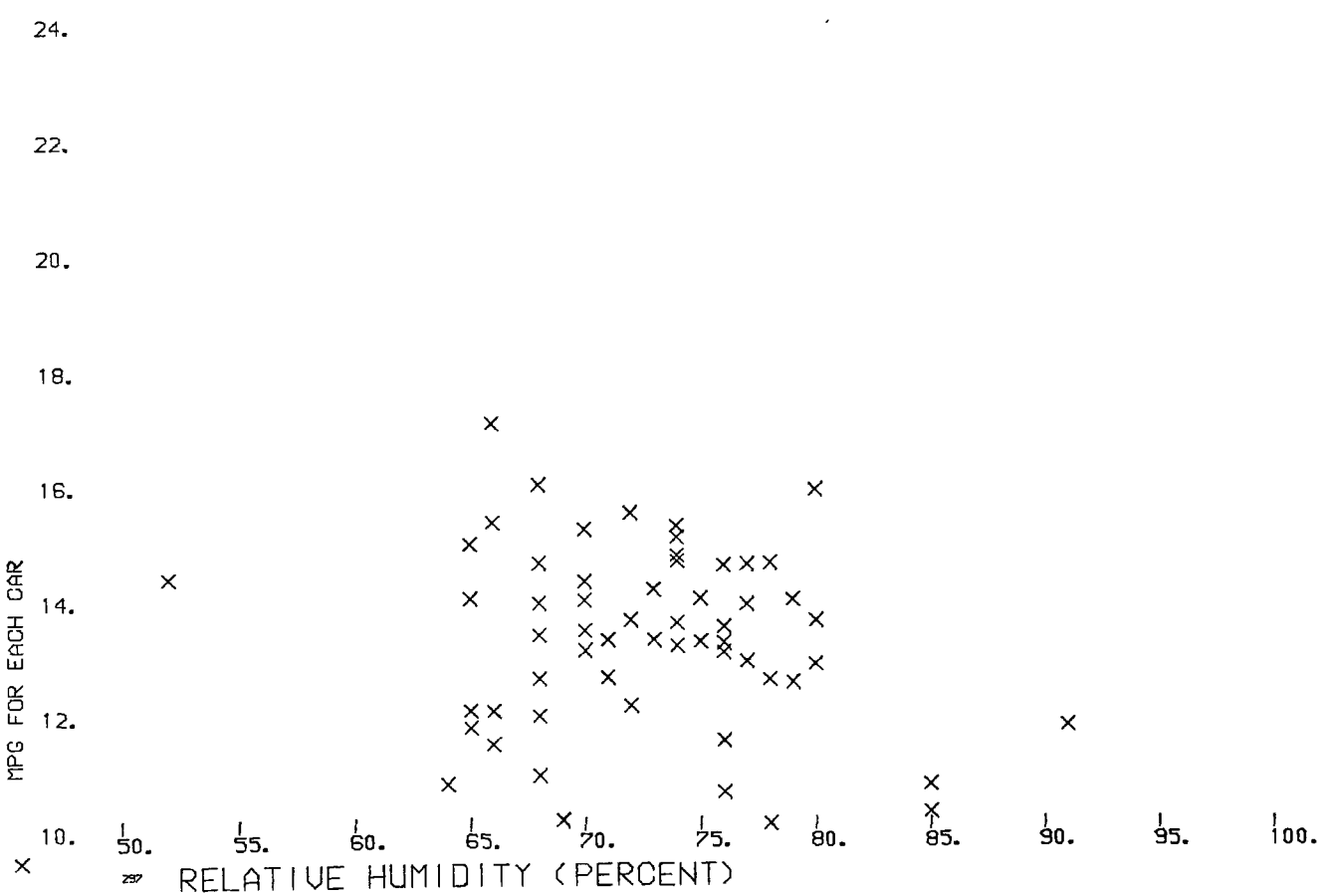
MPG VERSUS RELATIVE HUMIDITY

CLASS 35251012

DATE 062476

CORRELATION COEFFICIENT =-.1866

95 PERCENT CONFIDENCE INTERVAL = (-.4225, .0730)



GM FUEL ECONOMY STUDY

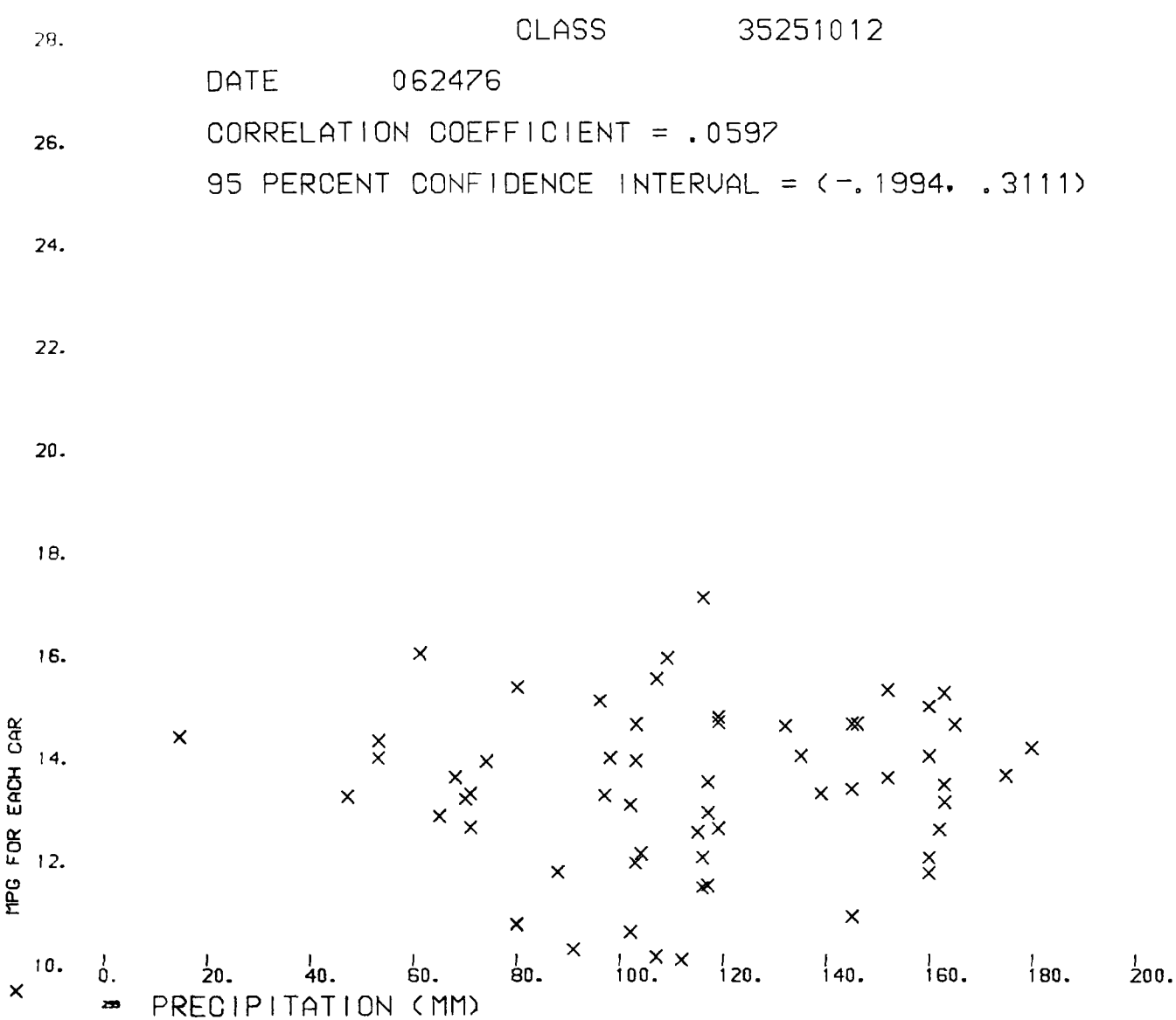
MPG VERSUS PRECIPITATION

CLASS 35251012

DATE 062476

CORRELATION COEFFICIENT = .0597

95 PERCENT CONFIDENCE INTERVAL = (-.1994, .3111)



GM FUEL ECONOMY STUDY

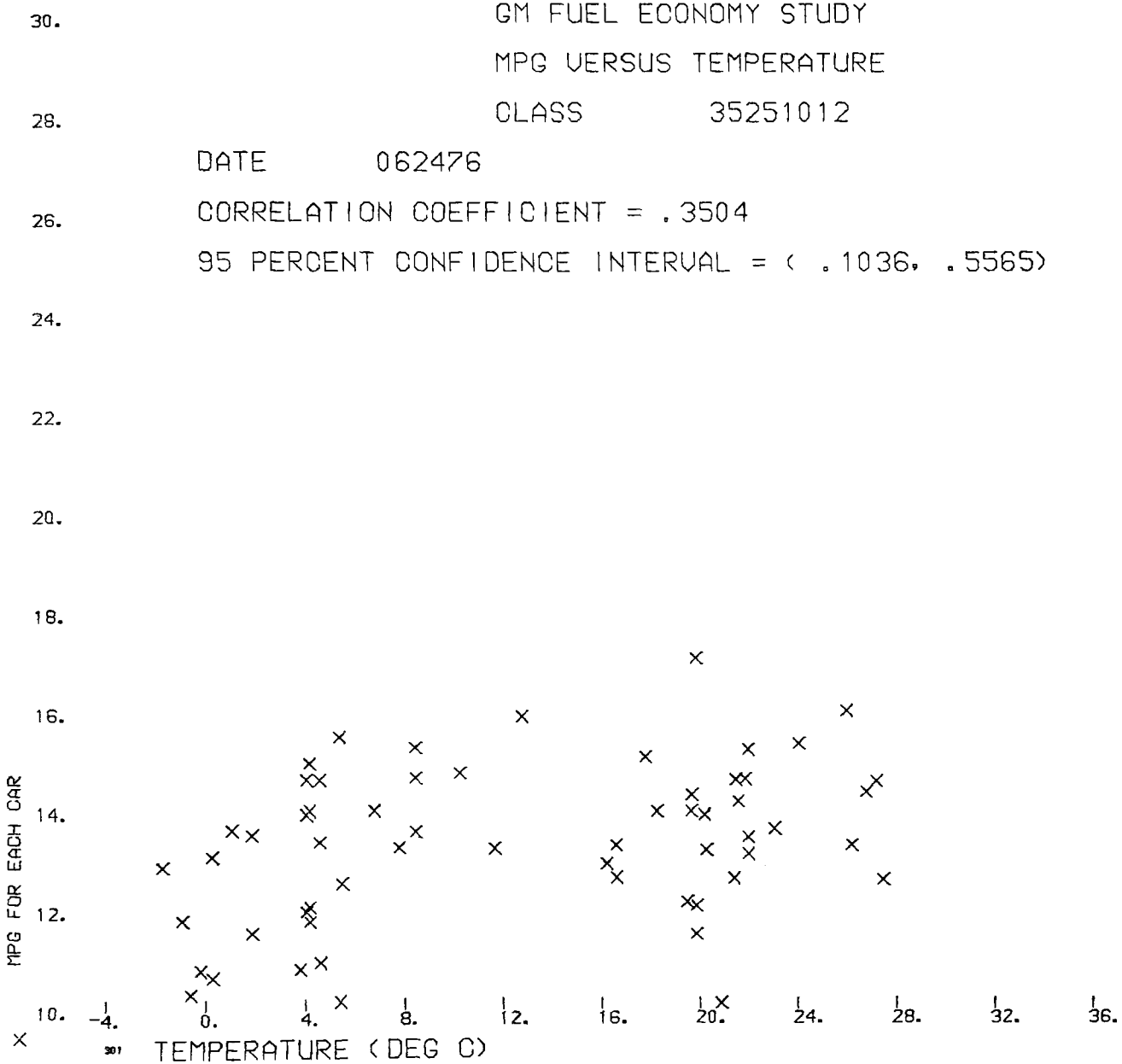
MPG VERSUS TEMPERATURE

CLASS 35251012

DATE 062476

CORRELATION COEFFICIENT = .3504

95 PERCENT CONFIDENCE INTERVAL = (.1036, .5565)



GM FUEL ECONOMY STUDY

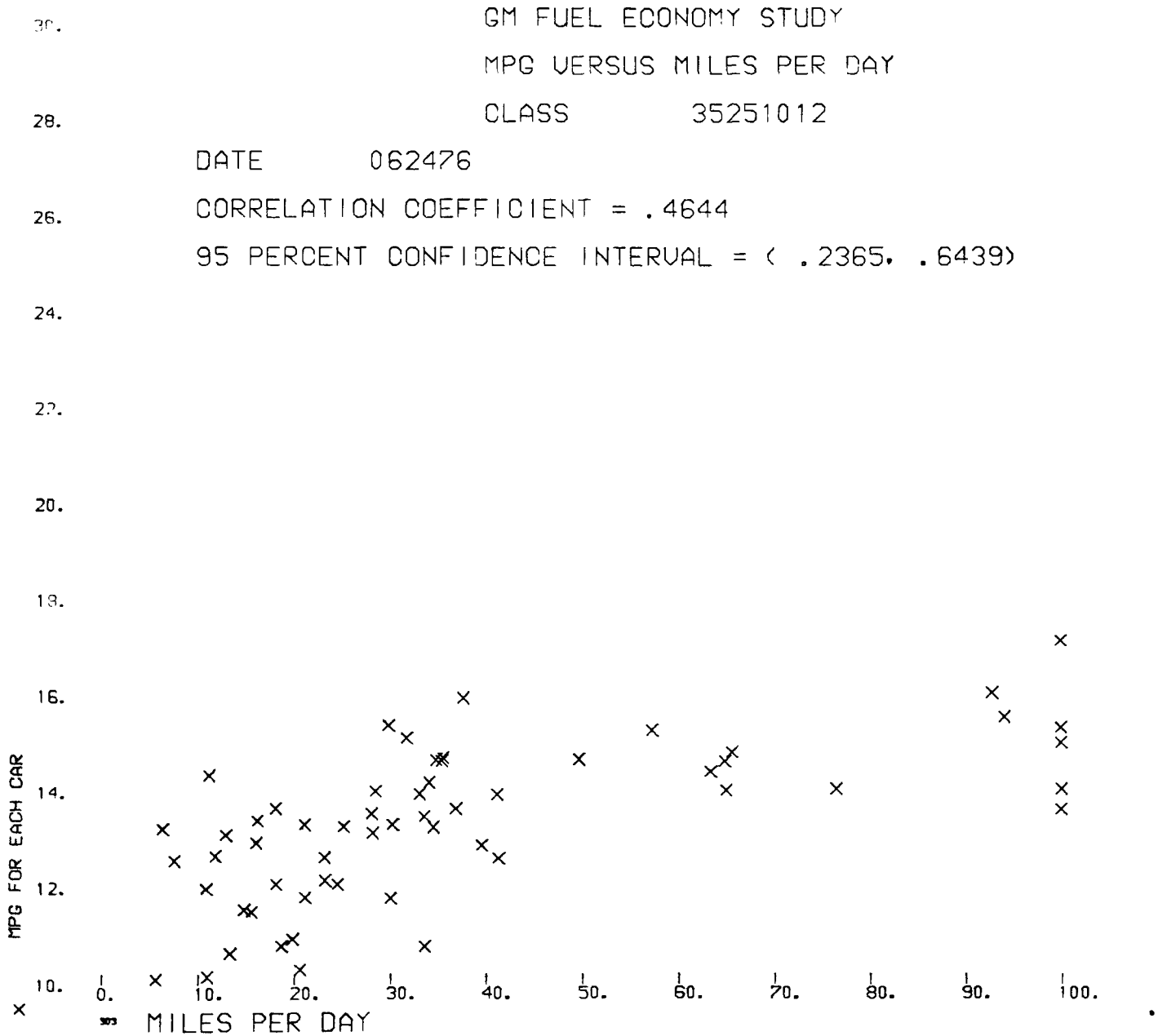
MPG VERSUS MILES PER DAY

CLASS 35251012

DATE 062476

CORRELATION COEFFICIENT = .4644

95 PERCENT CONFIDENCE INTERVAL = (.2365, .6439)



GM FUEL ECONOMY STUDY

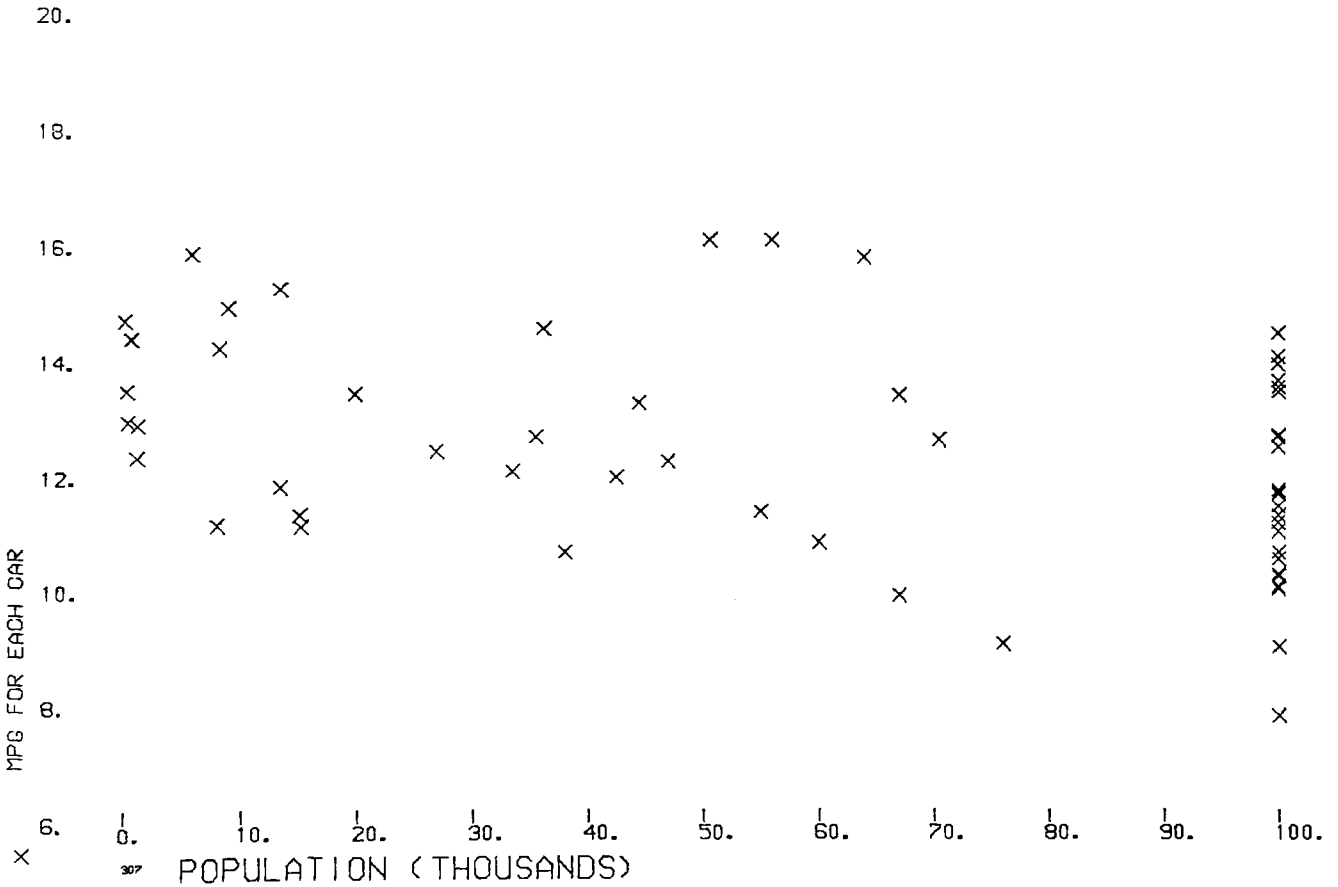
MPG VERSUS POPULATION

CLASS 35501411

DATE 062476

CORRELATION COEFFICIENT =-.3060

95 PERCENT CONFIDENCE INTERVAL = (-.5213,-.0542)



GM FUEL ECONOMY STUDY

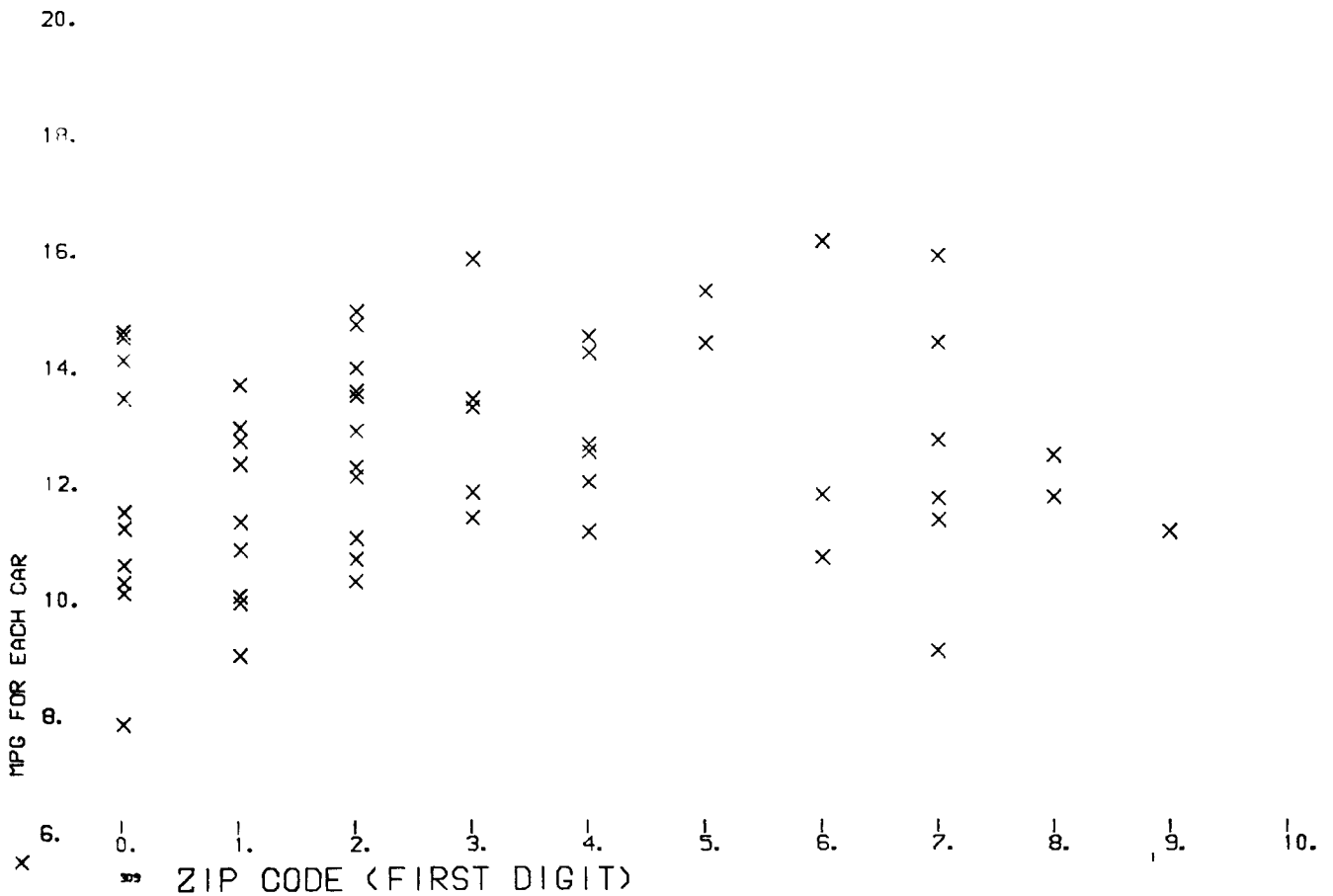
MPG VERSUS ZIP CODE

CLASS 35501411

DATE 062476

CORRELATION COEFFICIENT = .1810

95 PERCENT CONFIDENCE INTERVAL = (-.0788, .4177)



GM FUEL ECONOMY STUDY

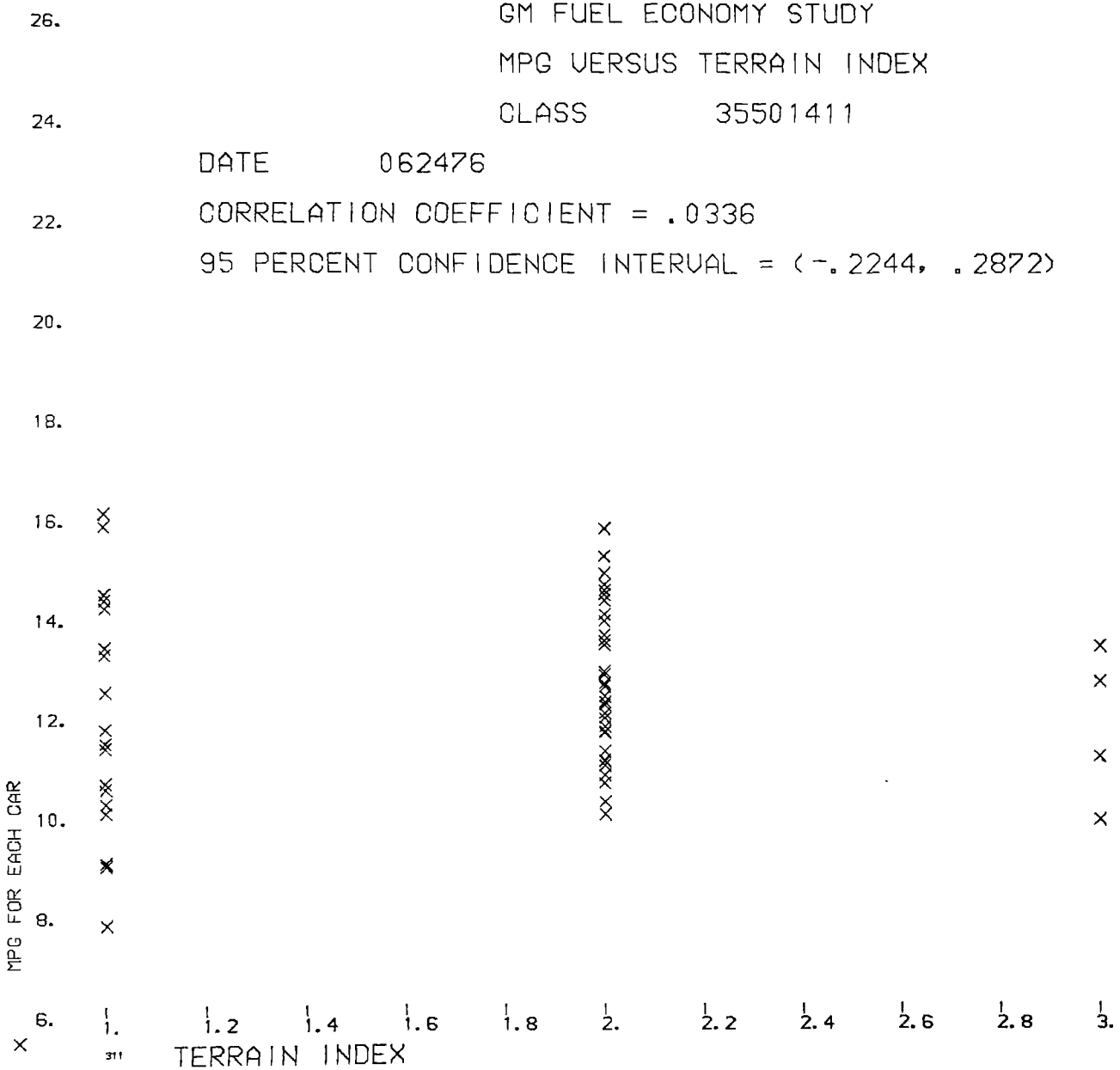
MPG VERSUS TERRAIN INDEX

CLASS 35501411

DATE 062476

CORRELATION COEFFICIENT = .0336

95 PERCENT CONFIDENCE INTERVAL = (-.2244, .2872)



GM FUEL ECONOMY STUDY

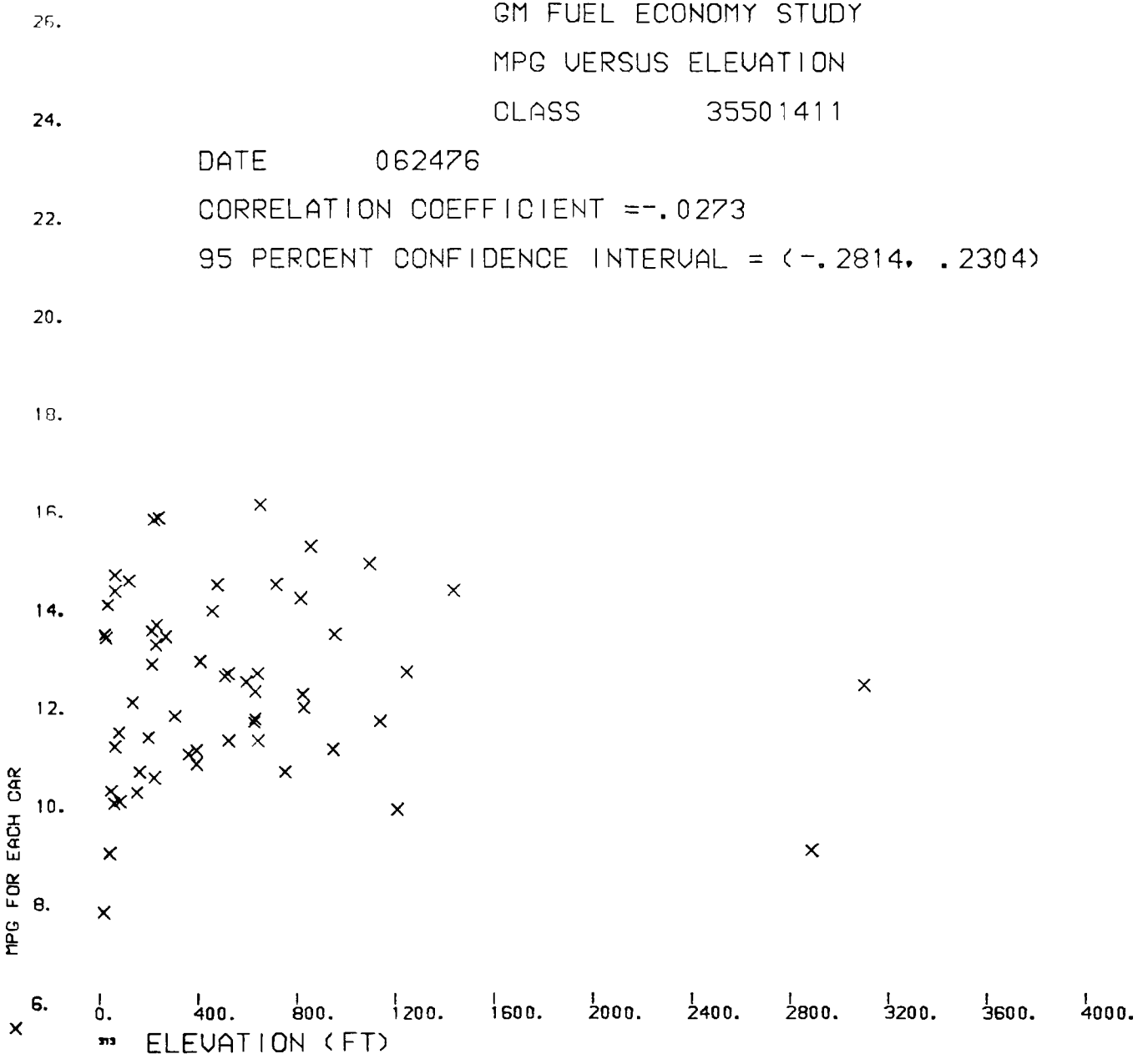
MPG VERSUS ELEVATION

CLASS 35501411

DATE 062476

CORRELATION COEFFICIENT =-.0273

95 PERCENT CONFIDENCE INTERVAL = (-.2814, .2304)



GM FUEL ECONOMY STUDY

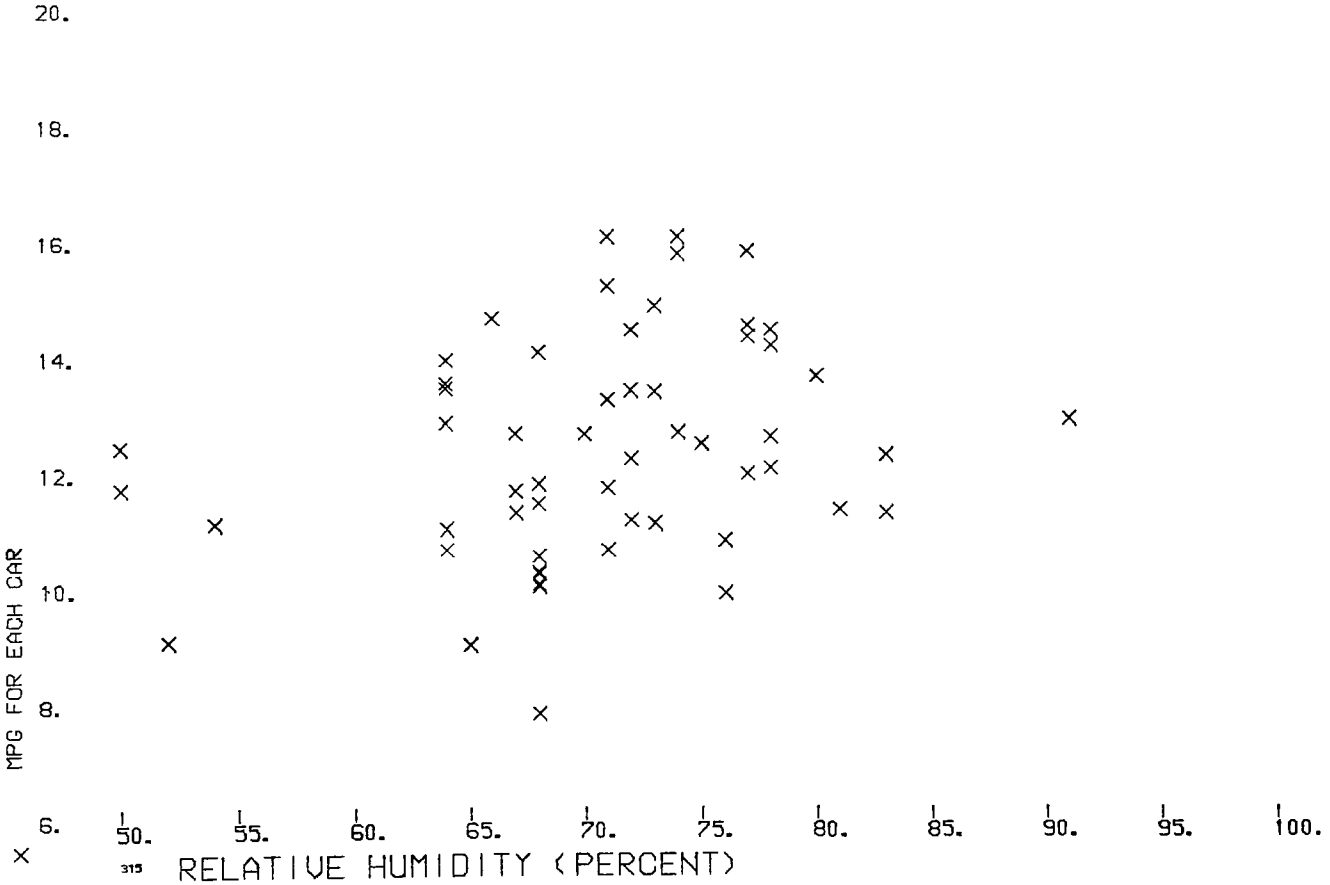
MPG VERSUS RELATIVE HUMIDITY

CLASS 35501411

DATE 062476

CORRELATION COEFFICIENT = .2294

95 PERCENT CONFIDENCE INTERVAL = (-.0283, .4586)



GM FUEL ECONOMY STUDY

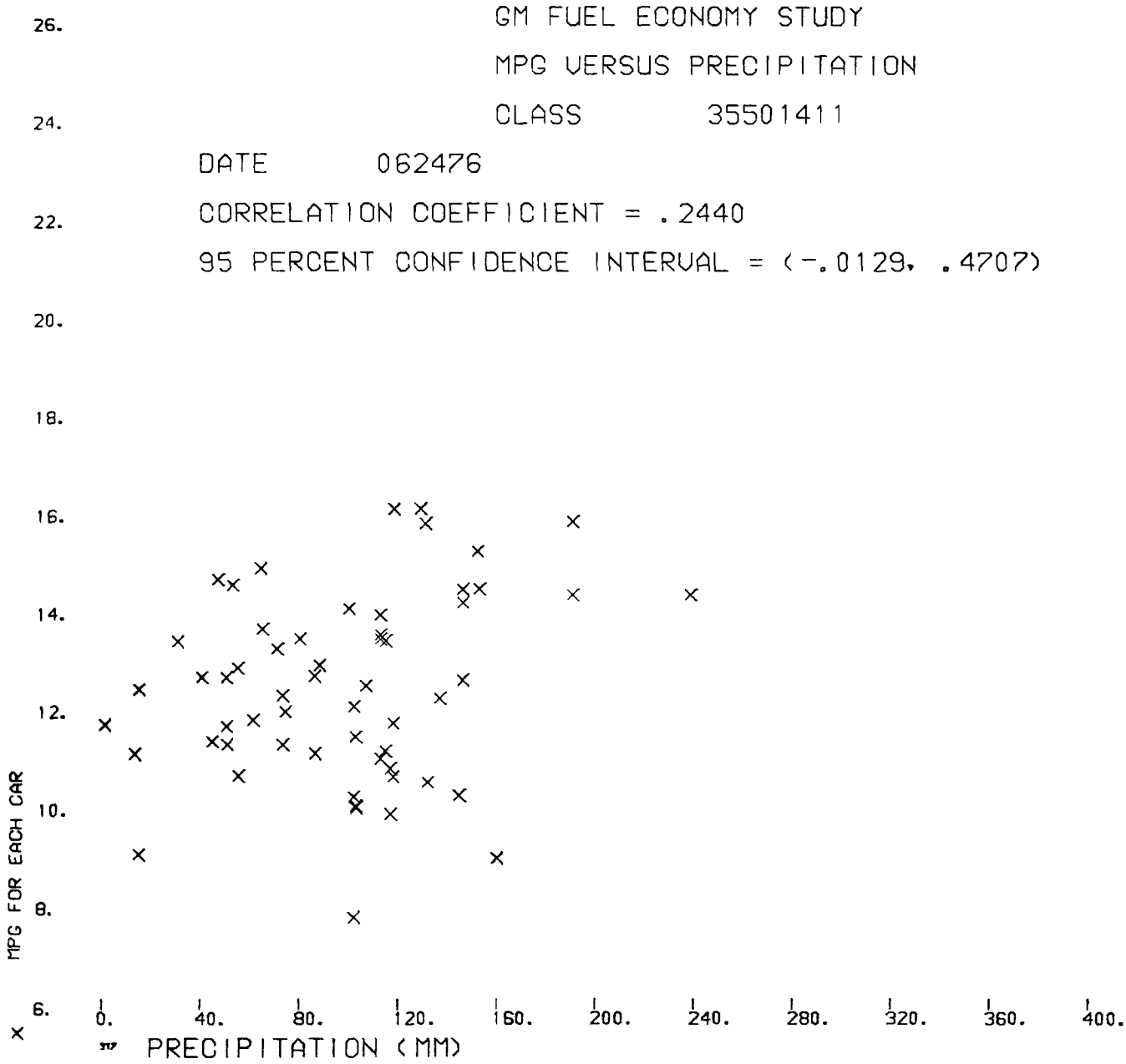
MPG VERSUS PRECIPITATION

CLASS 35501411

DATE 062476

CORRELATION COEFFICIENT = .2440

95 PERCENT CONFIDENCE INTERVAL = (-.0129, .4707)



GM FUEL ECONOMY STUDY

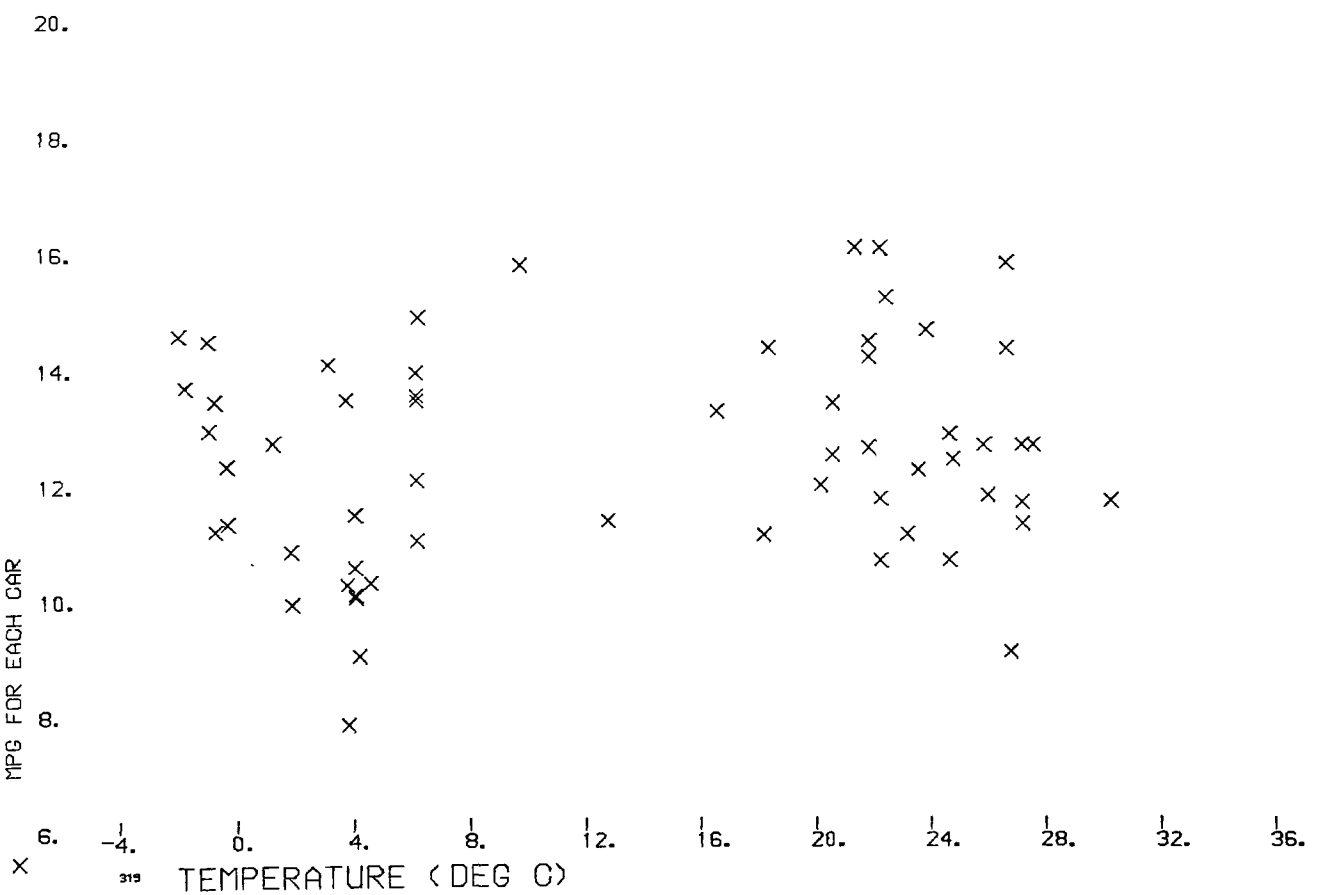
MPG VERSUS TEMPERATURE

CLASS 35501411

DATE 062476

CORRELATION COEFFICIENT = .1611

95 PERCENT CONFIDENCE INTERVAL = (-.0991, .4006)



GM FUEL ECONOMY STUDY

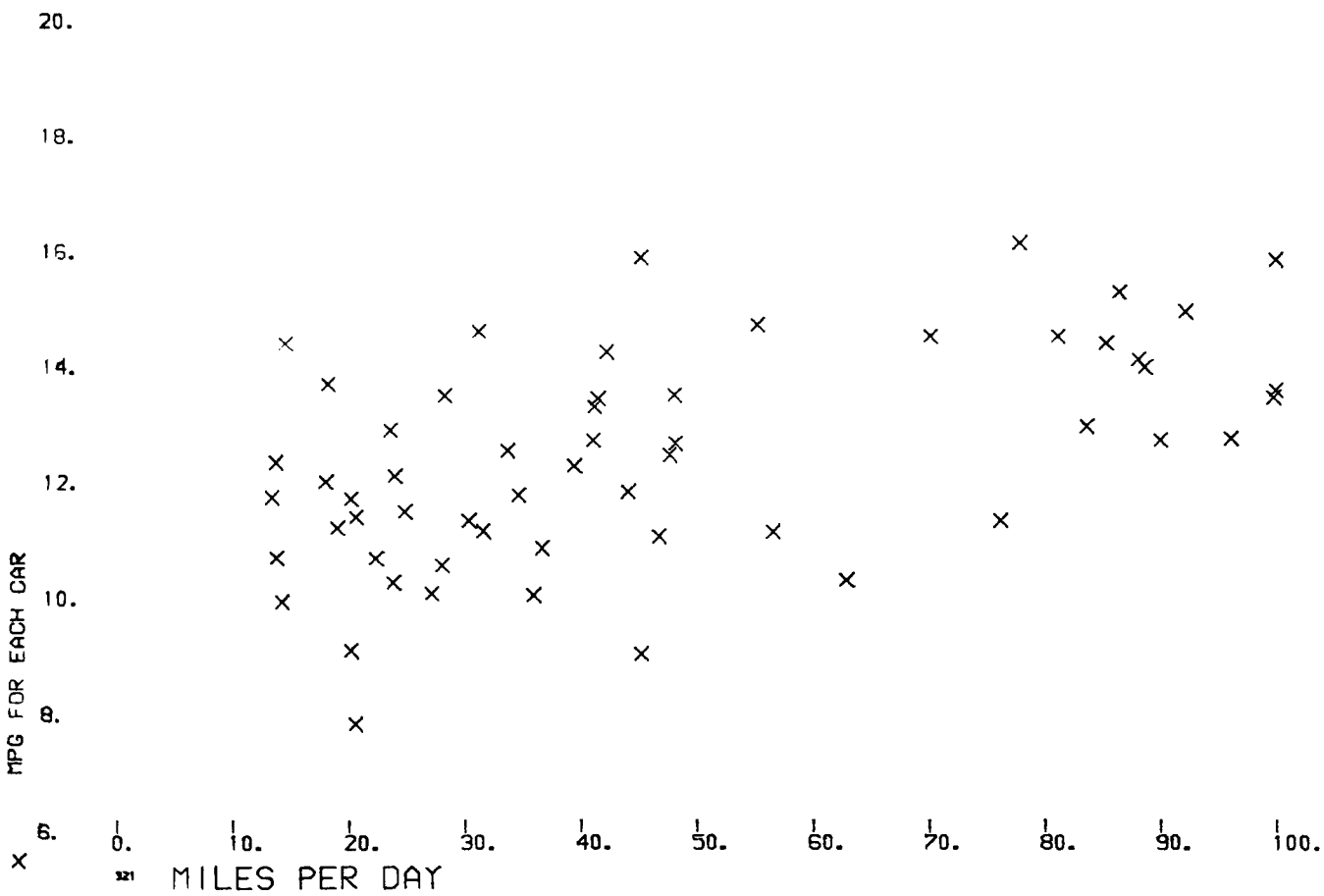
MPG VERSUS MILES PER DAY

CLASS 35501411

DATE 062476

CORRELATION COEFFICIENT = .5513

95 PERCENT CONFIDENCE INTERVAL = (.3437, .7075)



GM FUEL ECONOMY STUDY

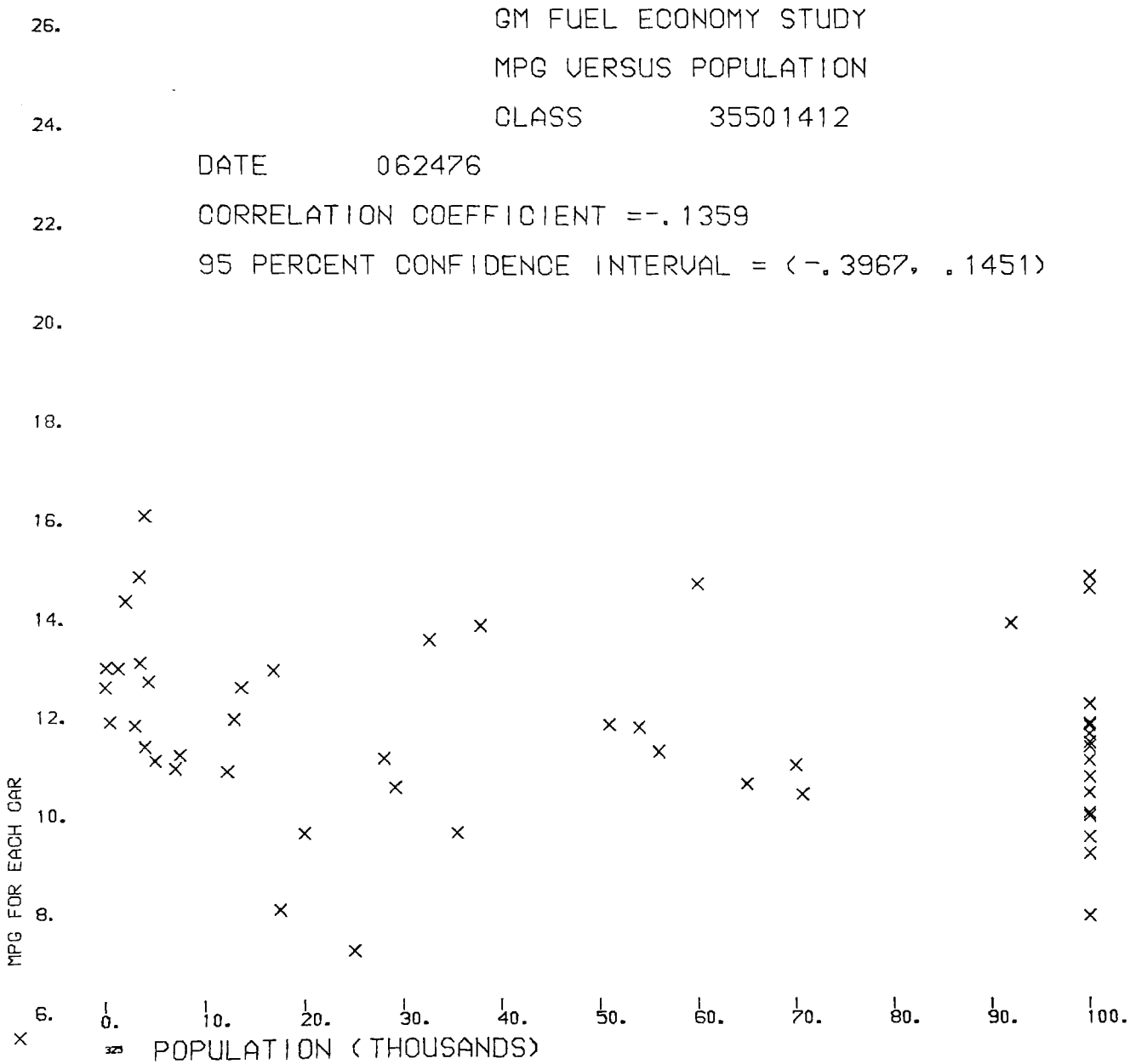
MPG VERSUS POPULATION

CLASS 35501412

DATE 062476

CORRELATION COEFFICIENT =-.1359

95 PERCENT CONFIDENCE INTERVAL = (-.3967, .1451)



GM FUEL ECONOMY STUDY

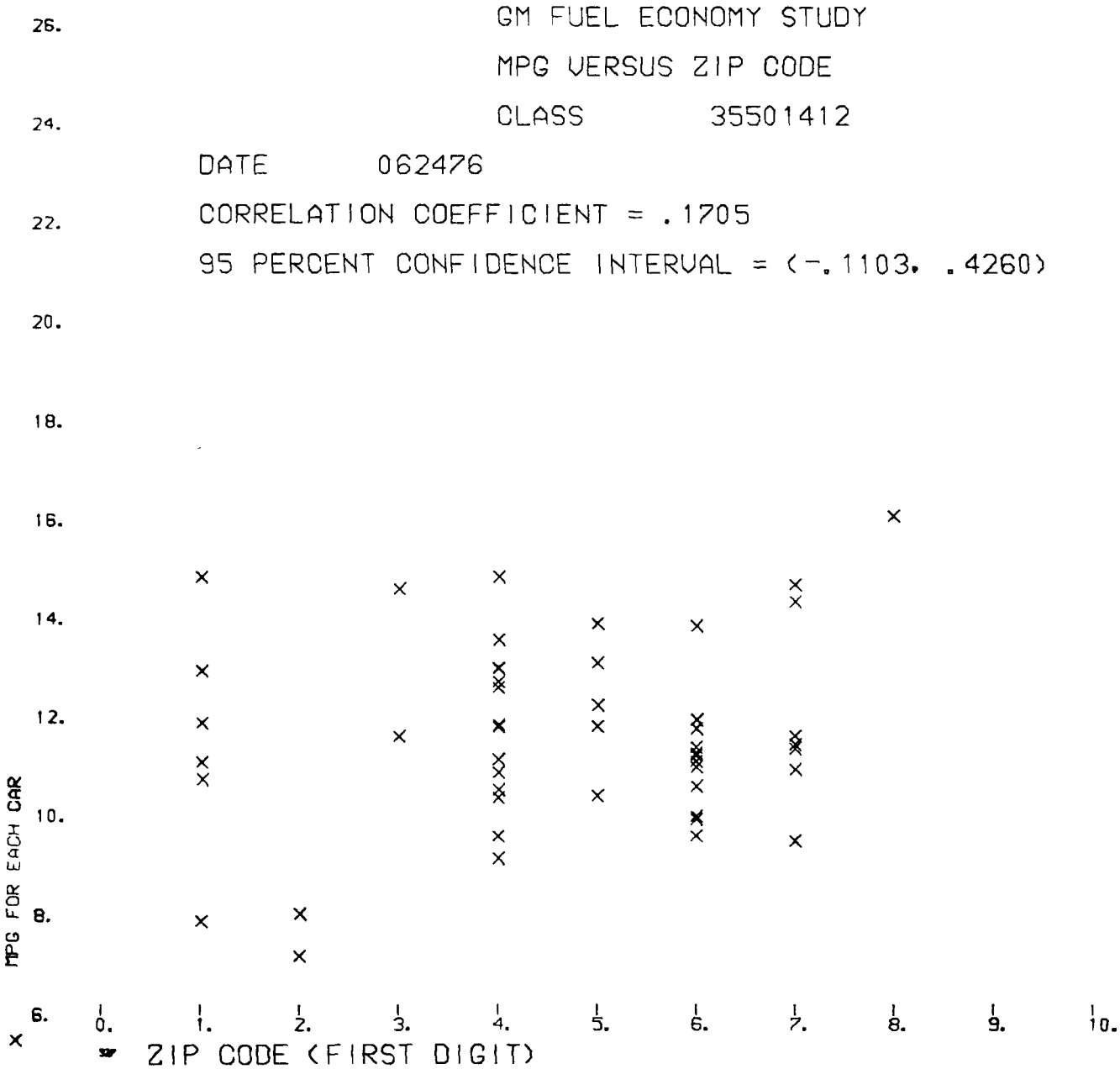
MPG VERSUS ZIP CODE

CLASS 35501412

DATE 062476

CORRELATION COEFFICIENT = .1705

95 PERCENT CONFIDENCE INTERVAL = (-.1103, .4260)



GM FUEL ECONOMY STUDY

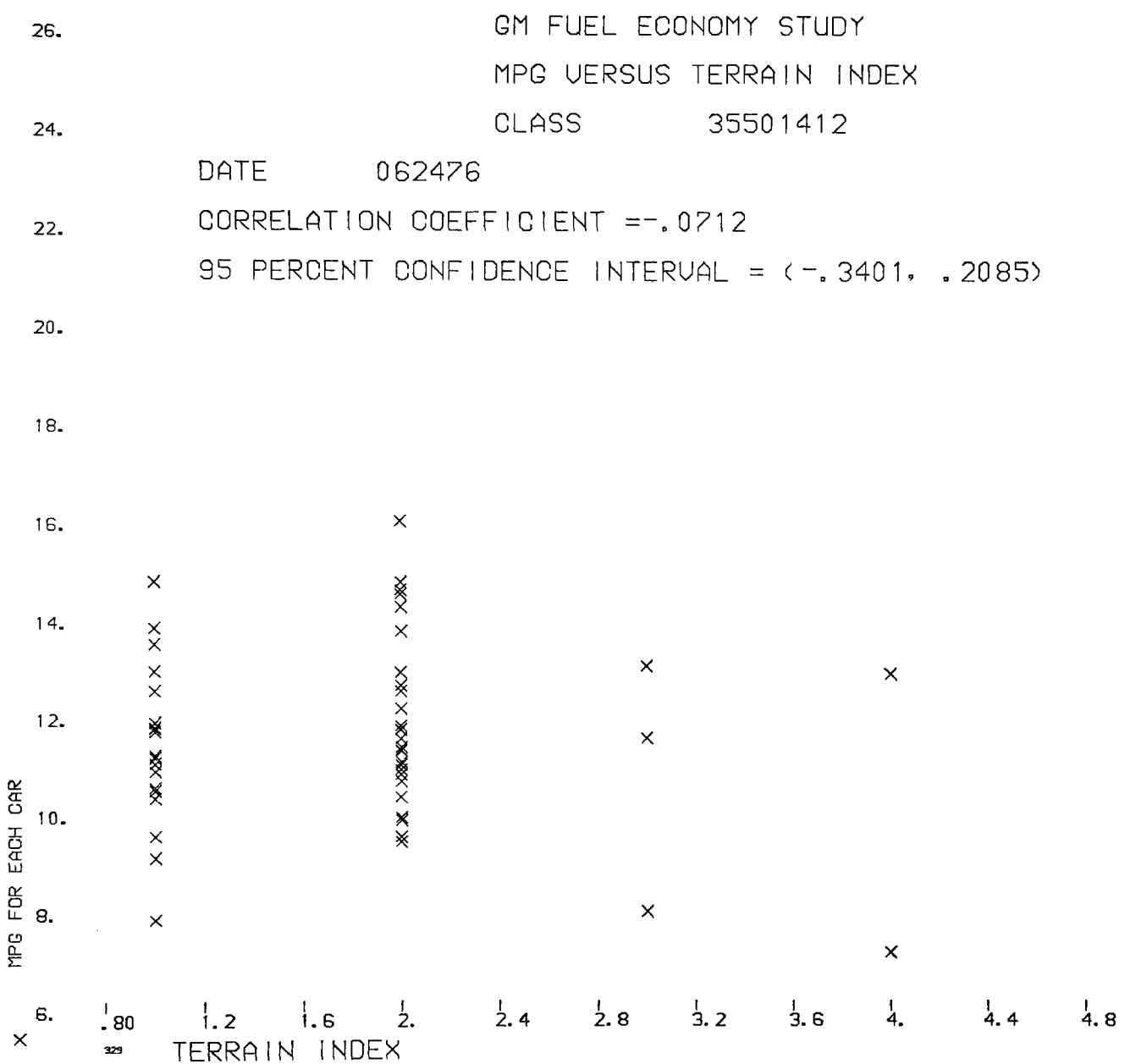
MPG VERSUS TERRAIN INDEX

CLASS 35501412

DATE 062476

CORRELATION COEFFICIENT =-.0712

95 PERCENT CONFIDENCE INTERVAL = (-.3401, .2085)



GM FUEL ECONOMY STUDY

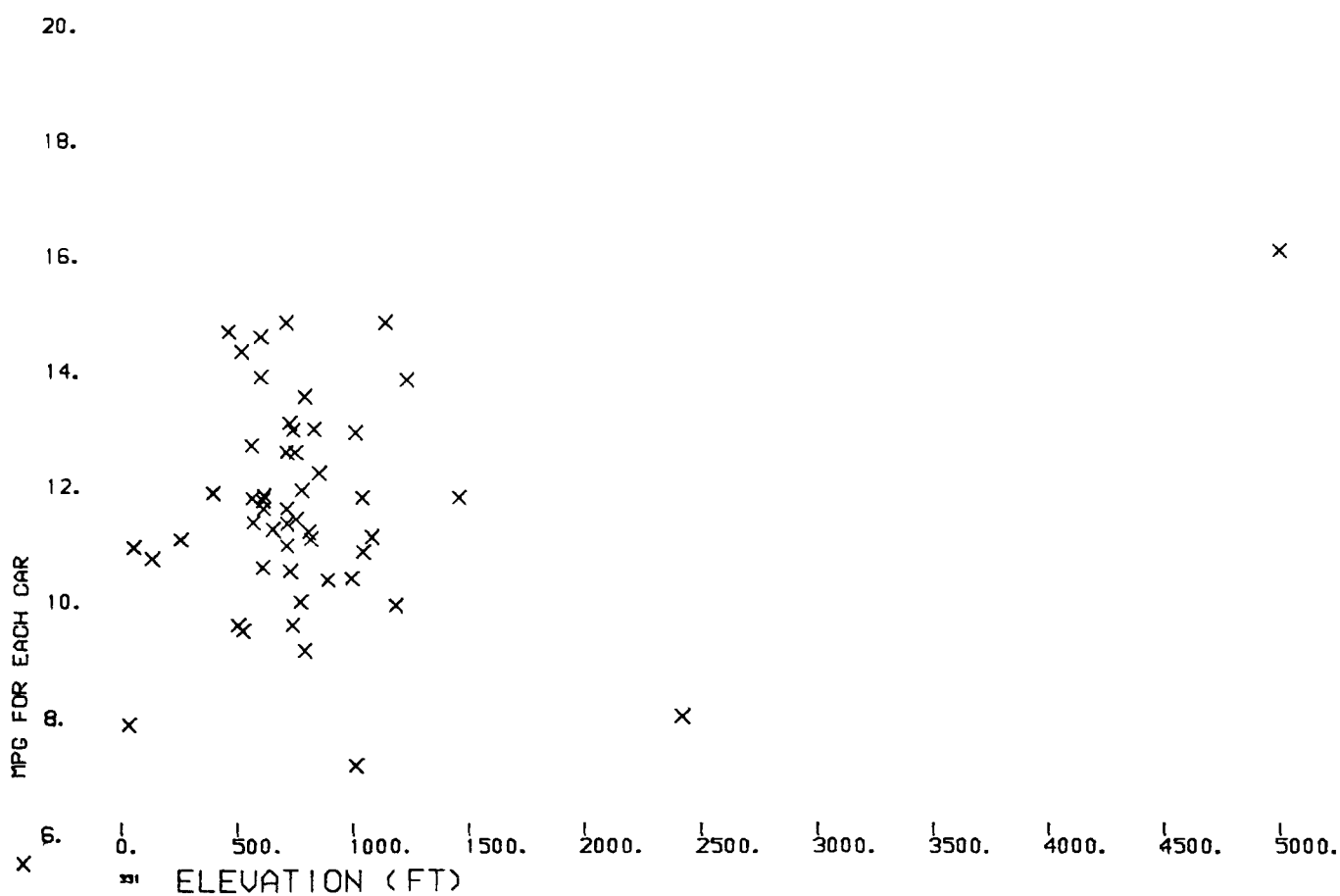
MPG VERSUS ELEVATION

CLASS 35501412

DATE 062476

CORRELATION COEFFICIENT = .2631

95 PERCENT CONFIDENCE INTERVAL = (-.0135, .5023)



GM FUEL ECONOMY STUDY

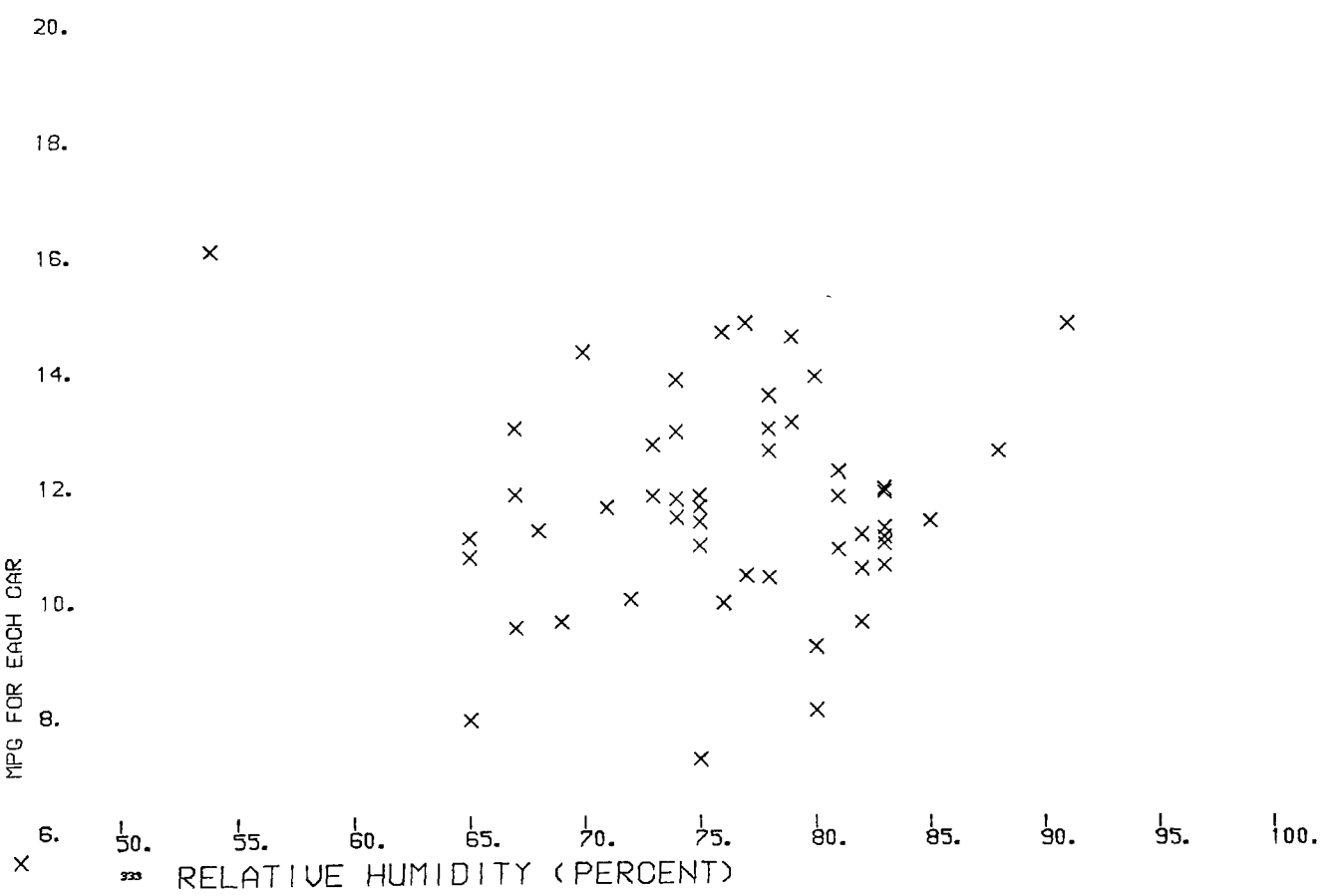
MPG VERSUS RELATIVE HUMIDITY

CLASS 35501412

DATE 062476

CORRELATION COEFFICIENT =-.0094

95 PERCENT CONFIDENCE INTERVAL = (-.2843, .2669)



GM FUEL ECONOMY STUDY

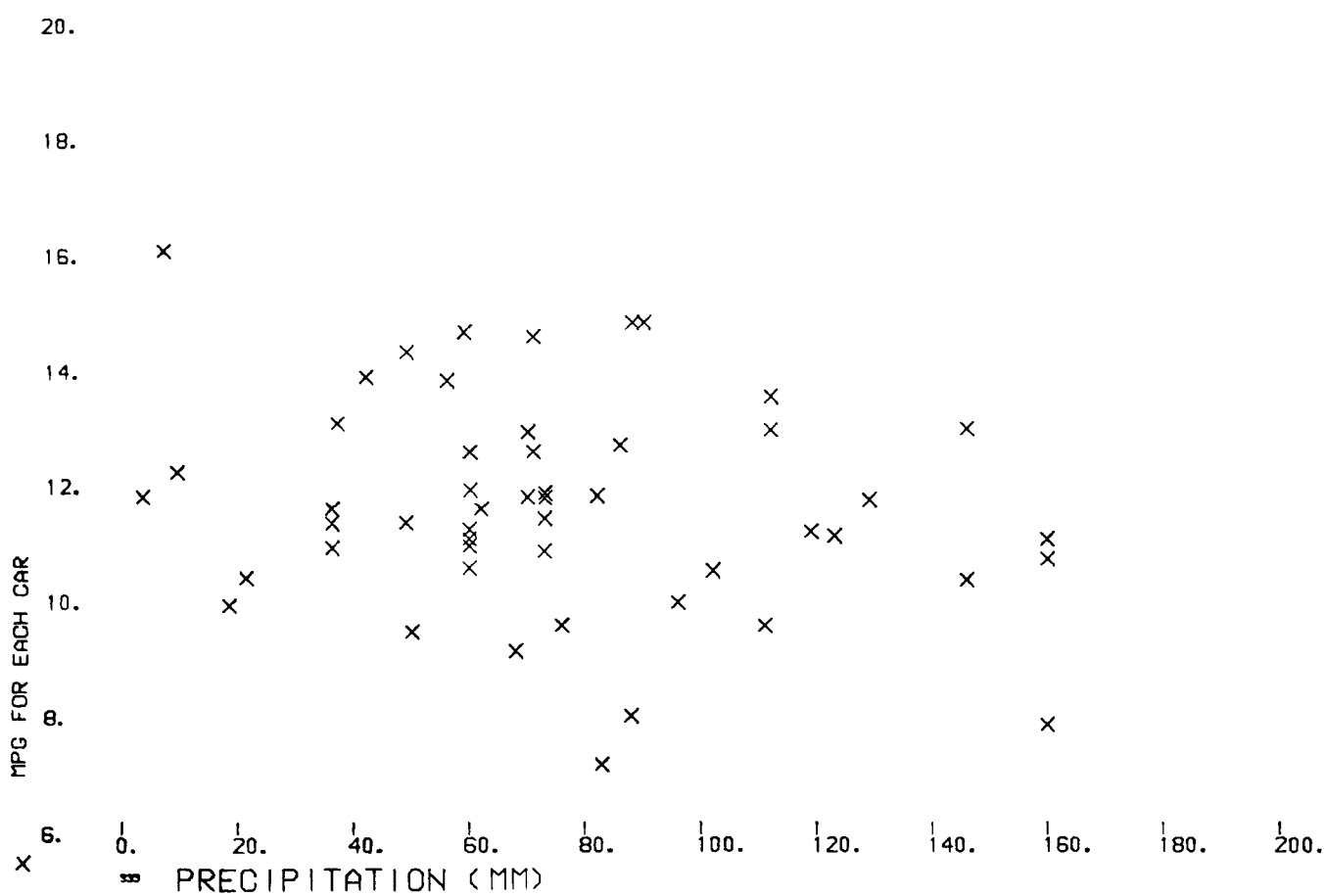
MPG VERSUS PRECIPITATION

CLASS 35501412

DATE 062476

CORRELATION COEFFICIENT =-.2320

95 PERCENT CONFIDENCE INTERVAL = (-.4771, .0465)



GM FUEL ECONOMY STUDY

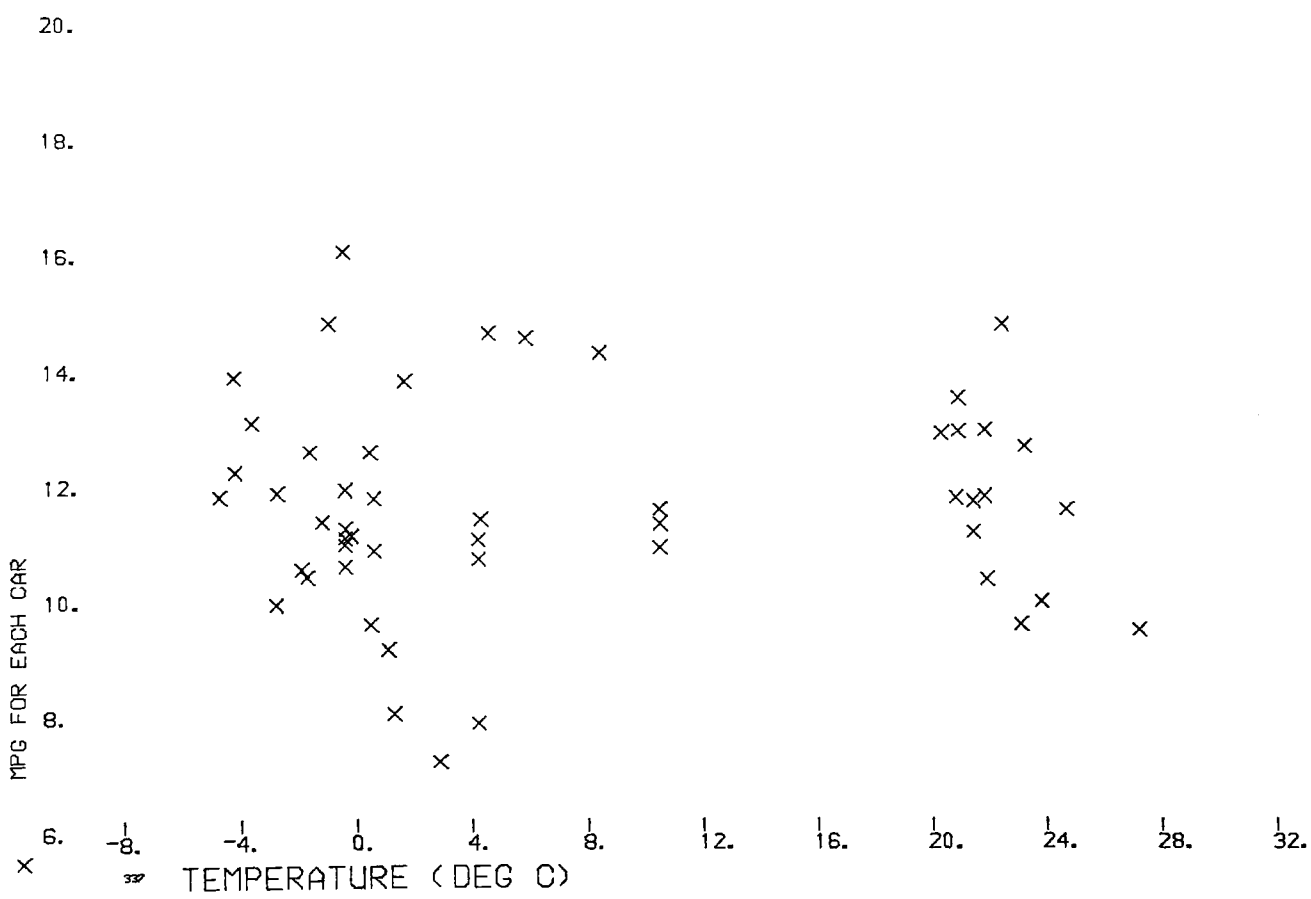
MPG VERSUS TEMPERATURE

CLASS 35501412

DATE 062476

CORRELATION COEFFICIENT = .0273

95 PERCENT CONFIDENCE INTERVAL = (-.2501, .3006)



GM FUEL ECONOMY STUDY

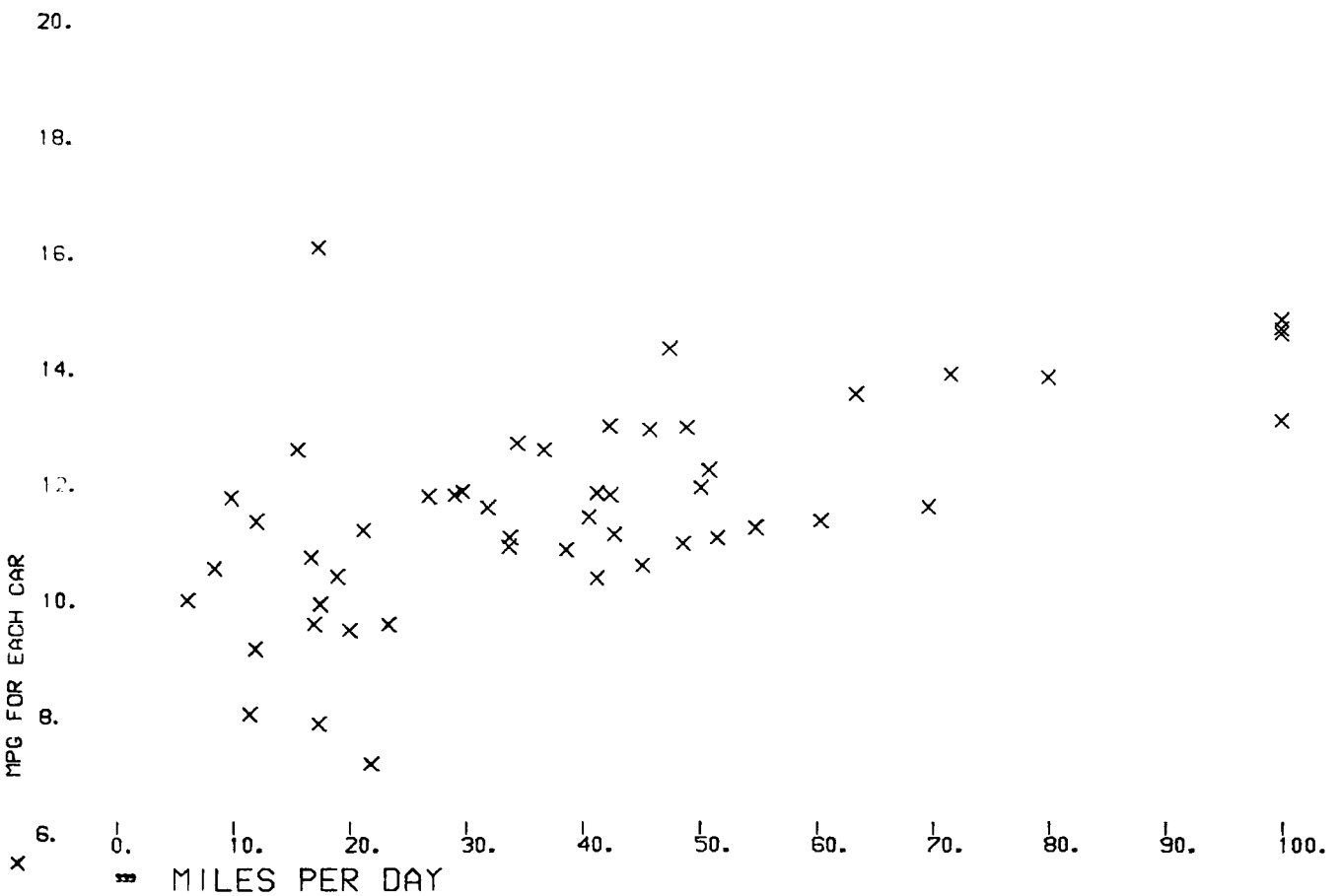
MPG VERSUS MILES PER DAY

CLASS 35501412

DATE 062476

CORRELATION COEFFICIENT = .5439

95 PERCENT CONFIDENCE INTERVAL = (.3157, .7127)



GM FUEL ECONOMY STUDY

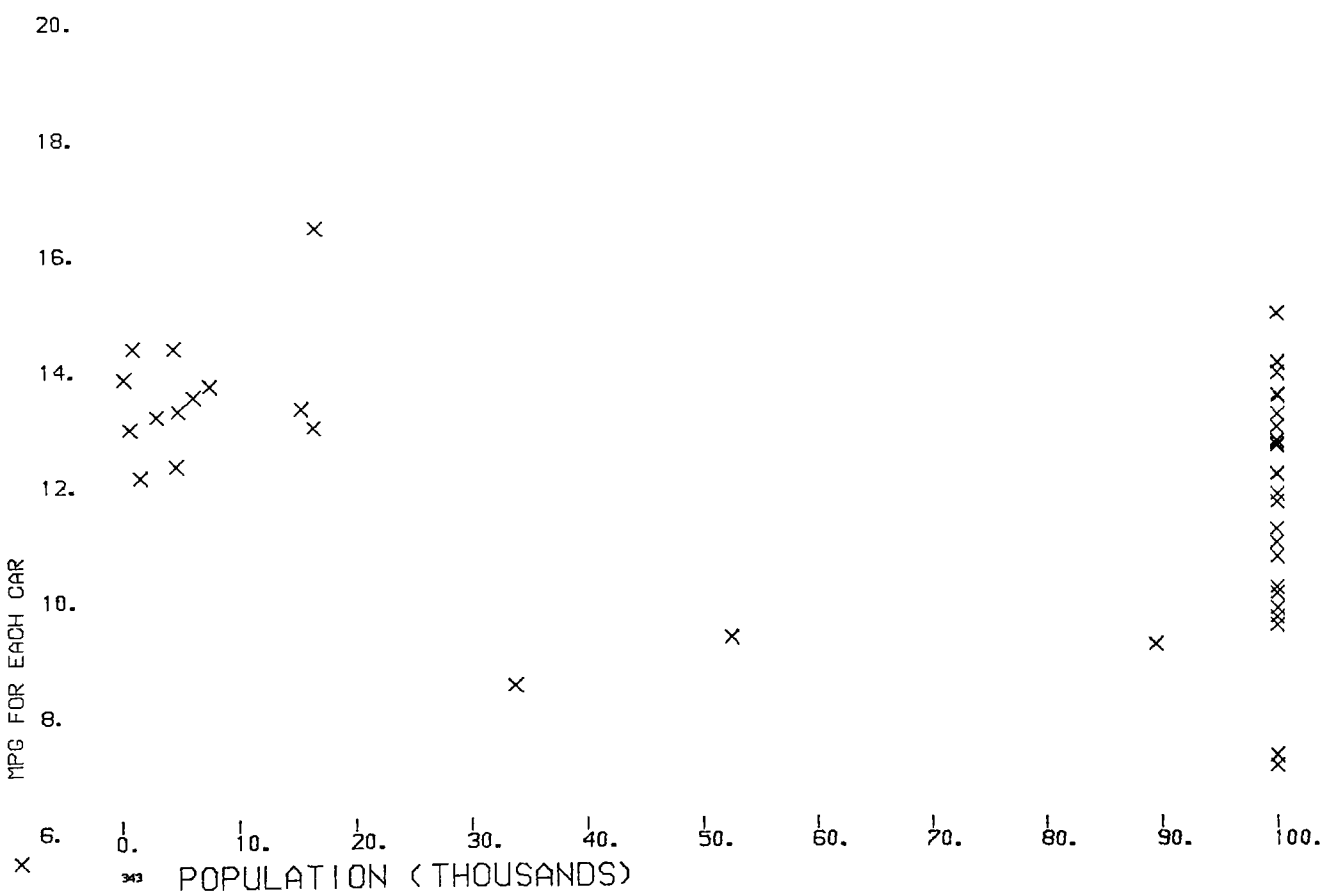
MPG VERSUS POPULATION

CLASS 44500912

DATE 062476

CORRELATION COEFFICIENT =-.1468

95 PERCENT CONFIDENCE INTERVAL = (-.4315, .1644)



GM FUEL ECONOMY STUDY

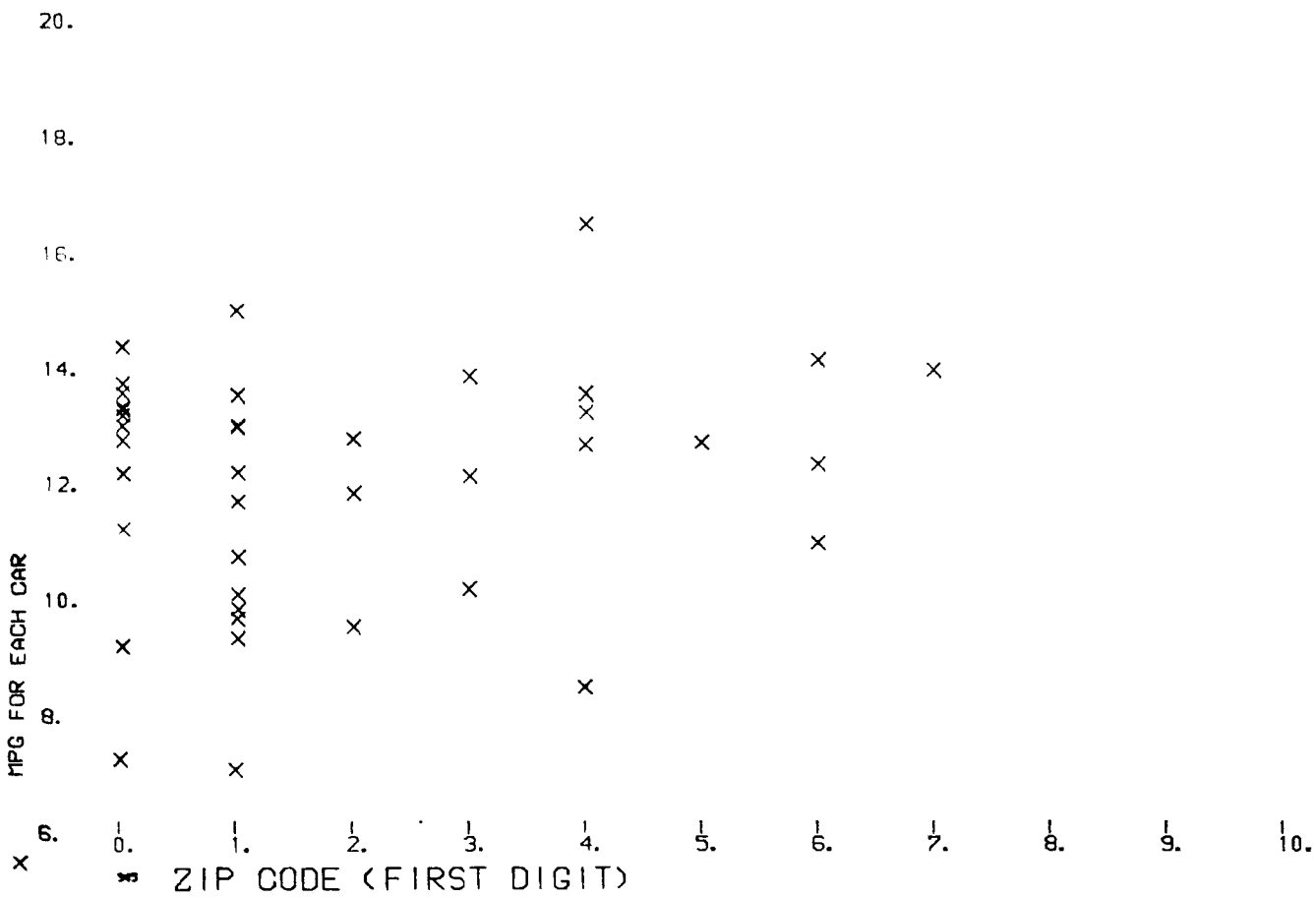
MPG VERSUS ZIP CODE

CLASS 44500912

DATE 062476

CORRELATION COEFFICIENT = .1378

95 PERCENT CONFIDENCE INTERVAL = (-.1734, .4240)



GM FUEL ECONOMY STUDY

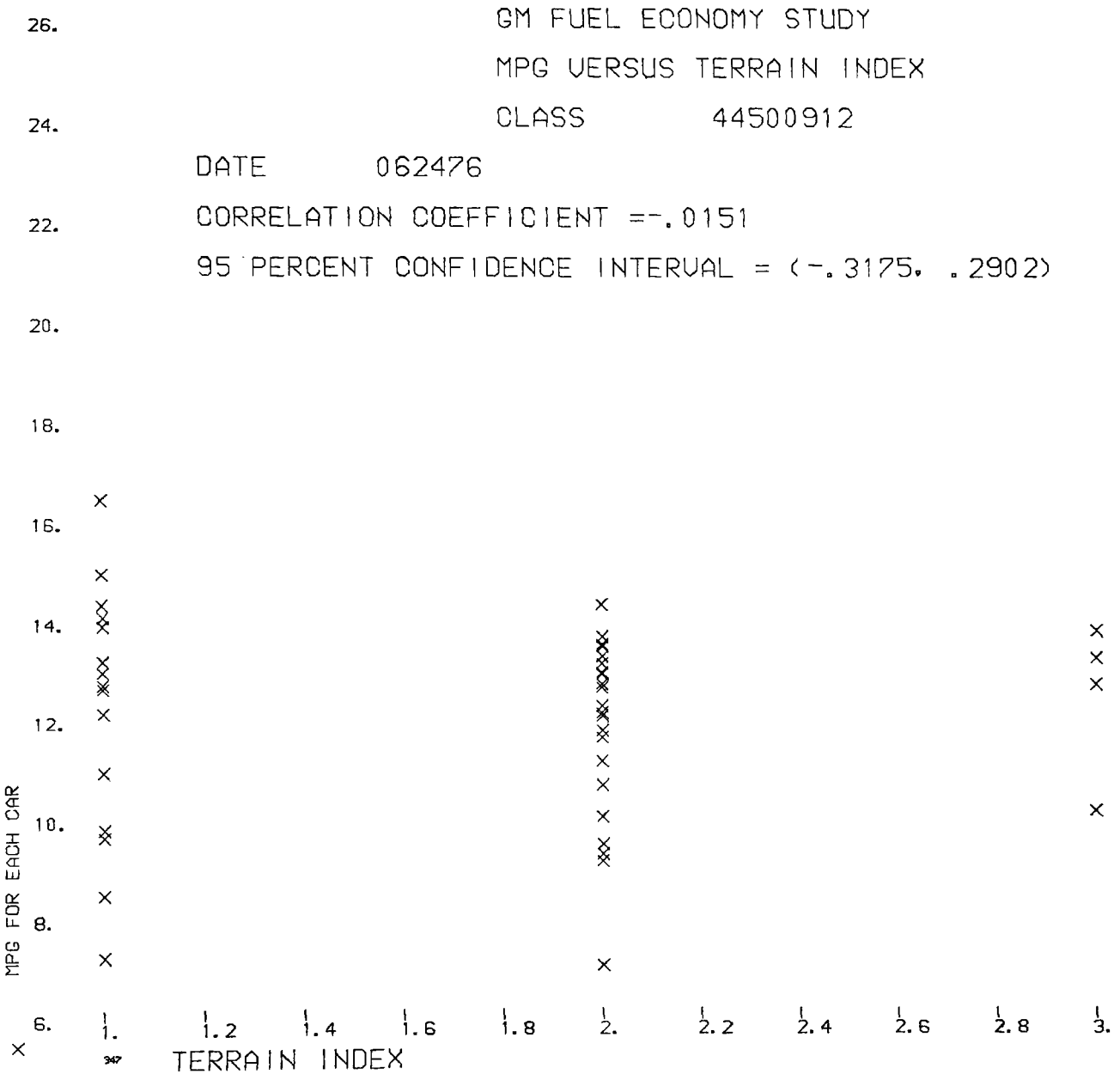
MPG VERSUS TERRAIN INDEX

CLASS 44500912

DATE 062476

CORRELATION COEFFICIENT =-.0151

95 PERCENT CONFIDENCE INTERVAL = (-.3175, .2902)



GM FUEL ECONOMY STUDY

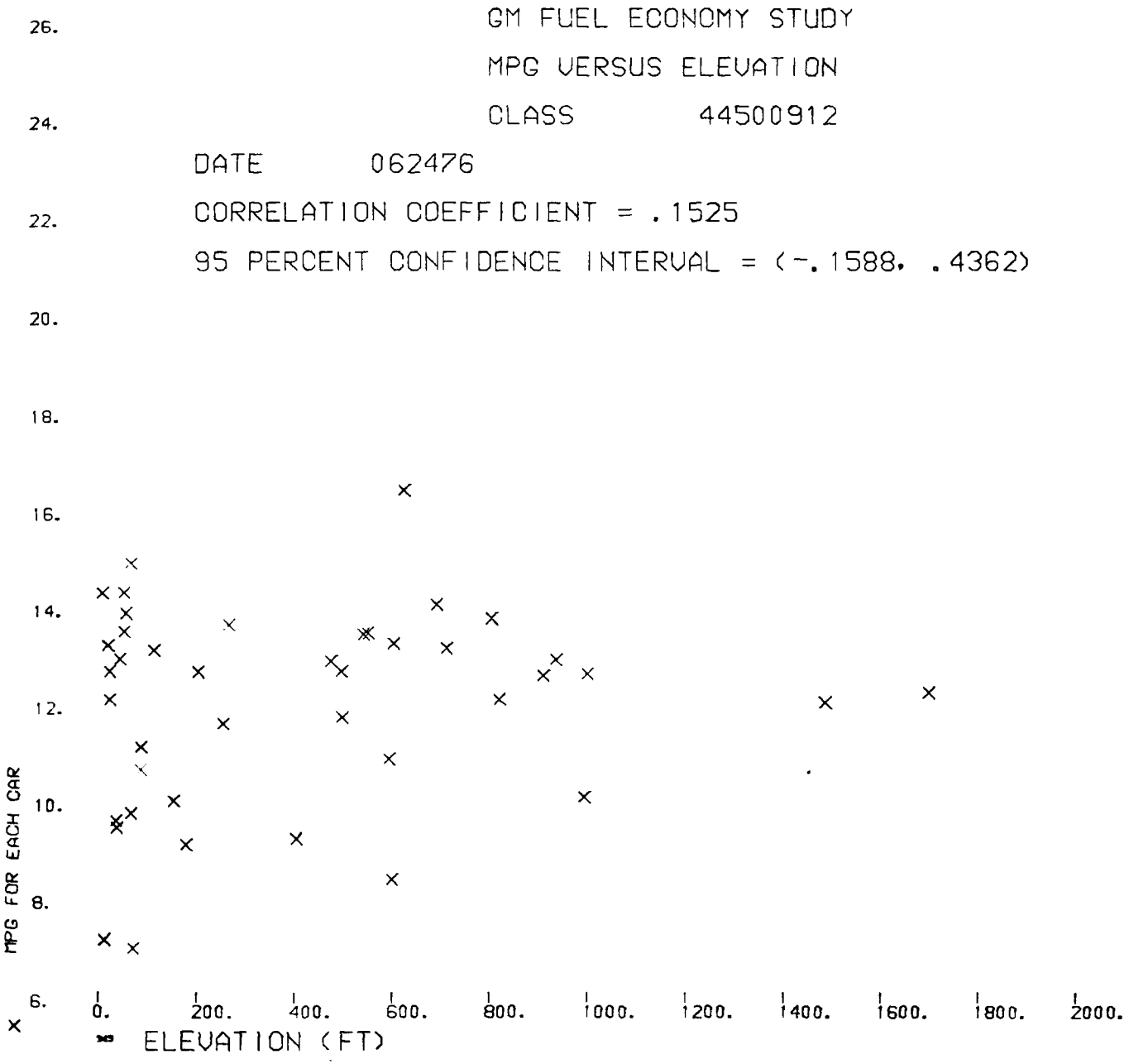
MPG VERSUS ELEVATION

CLASS 44500912

DATE 062476

CORRELATION COEFFICIENT = .1525

95 PERCENT CONFIDENCE INTERVAL = (-.1588, .4362)



GM FUEL ECONOMY STUDY

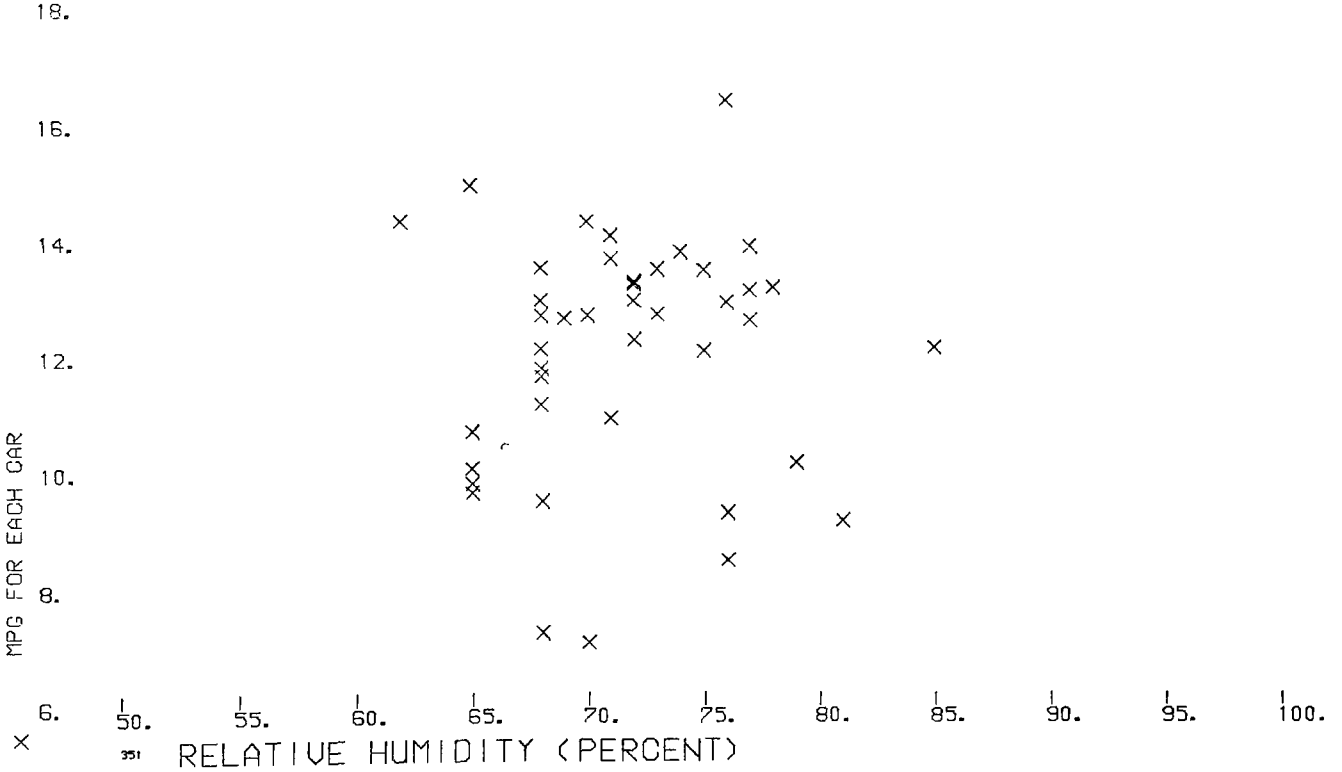
MPG VERSUS RELATIVE HUMIDITY

CLASS 44500912

DATE 062476

CORRELATION COEFFICIENT = .0684

95 PERCENT CONFIDENCE INTERVAL = (-.2406, .3647)



GM FUEL ECONOMY STUDY

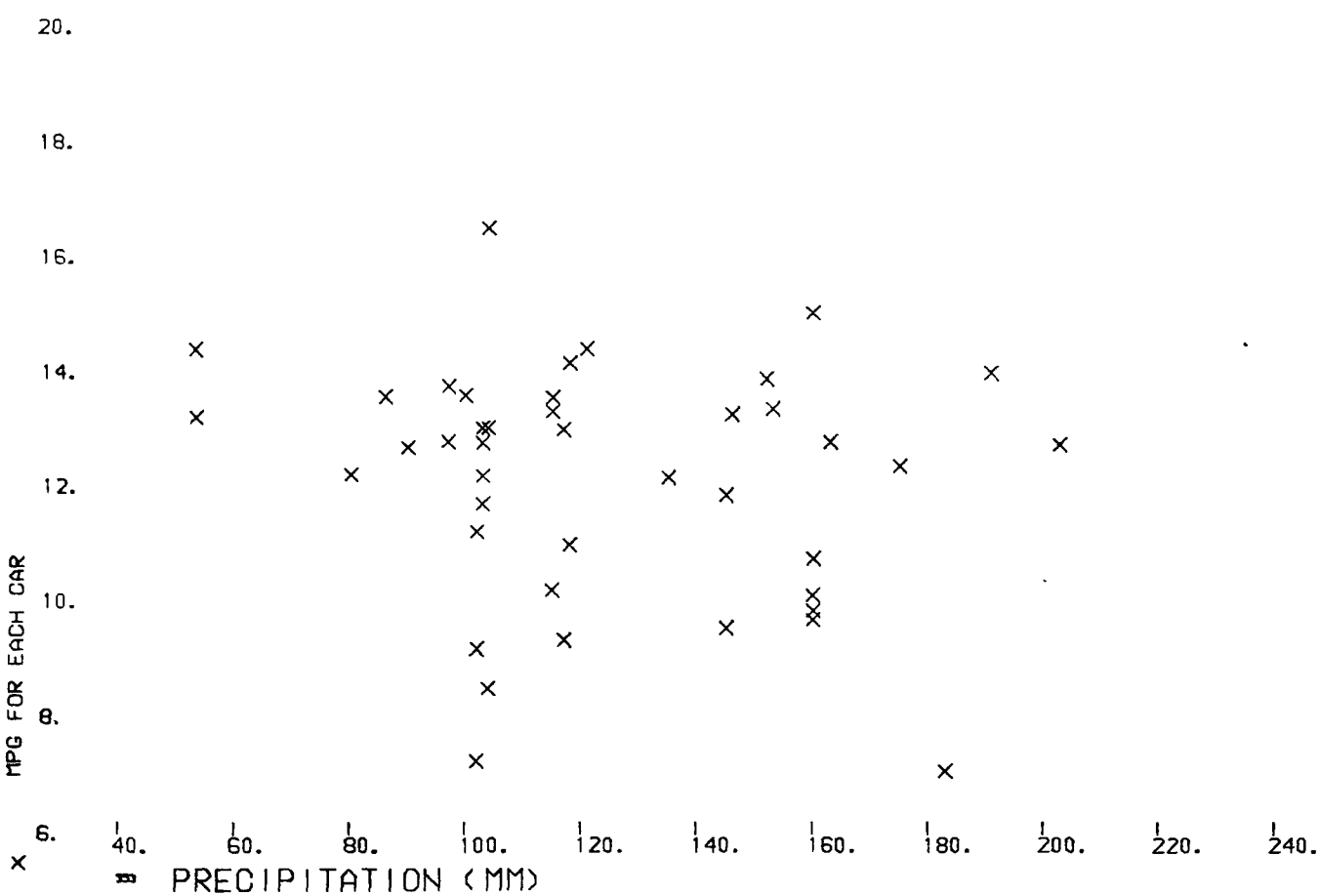
MPG VERSUS PRECIPITATION

CLASS 44500912

DATE 062476

CORRELATION COEFFICIENT =-.1749

95 PERCENT CONFIDENCE INTERVAL = (-.4547, .1363)



GM FUEL ECONOMY STUDY

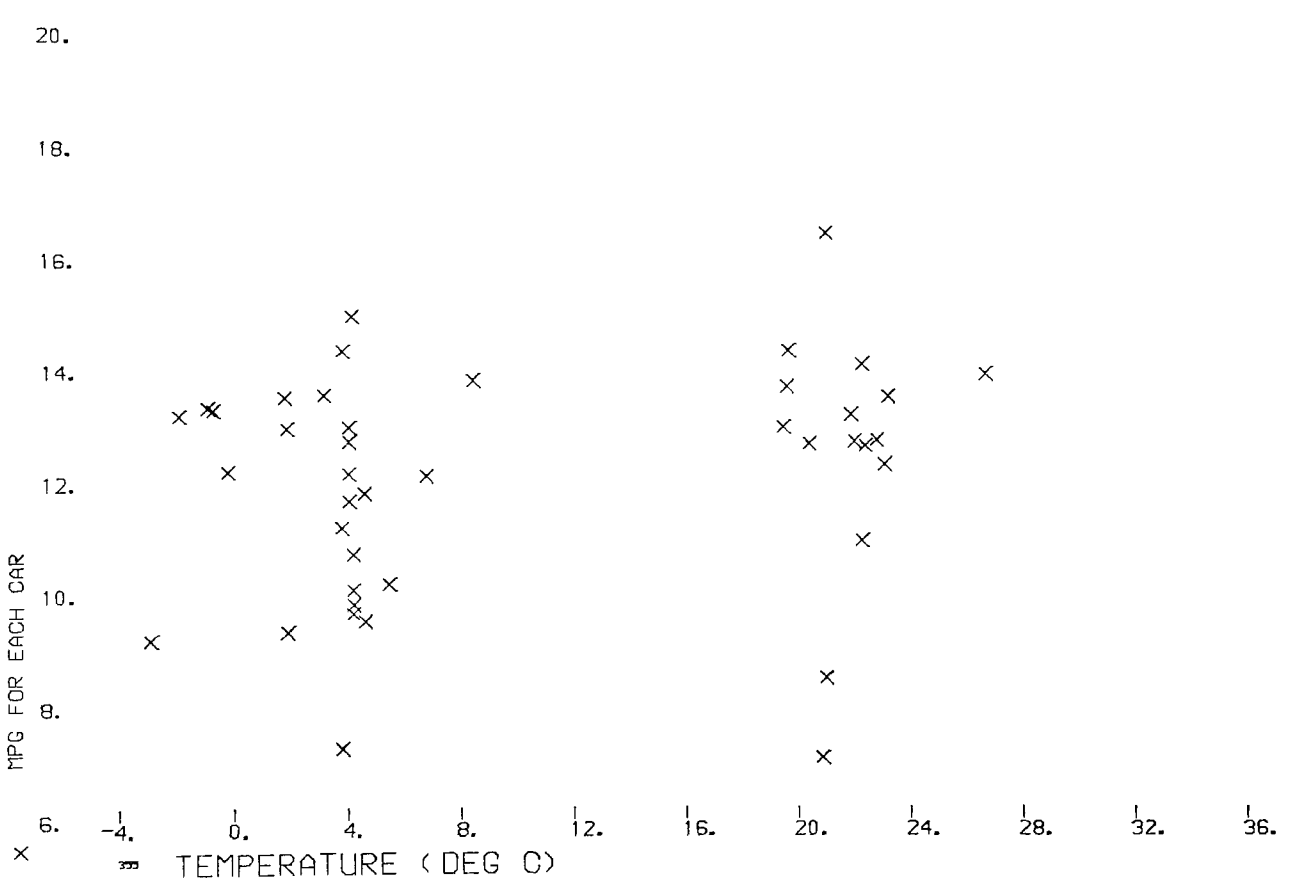
MPG VERSUS TEMPERATURE

CLASS 44500912

DATE 062476

CORRELATION COEFFICIENT = .2054

95 PERCENT CONFIDENCE INTERVAL = (-.1051, .4794)



GM FUEL ECONOMY STUDY

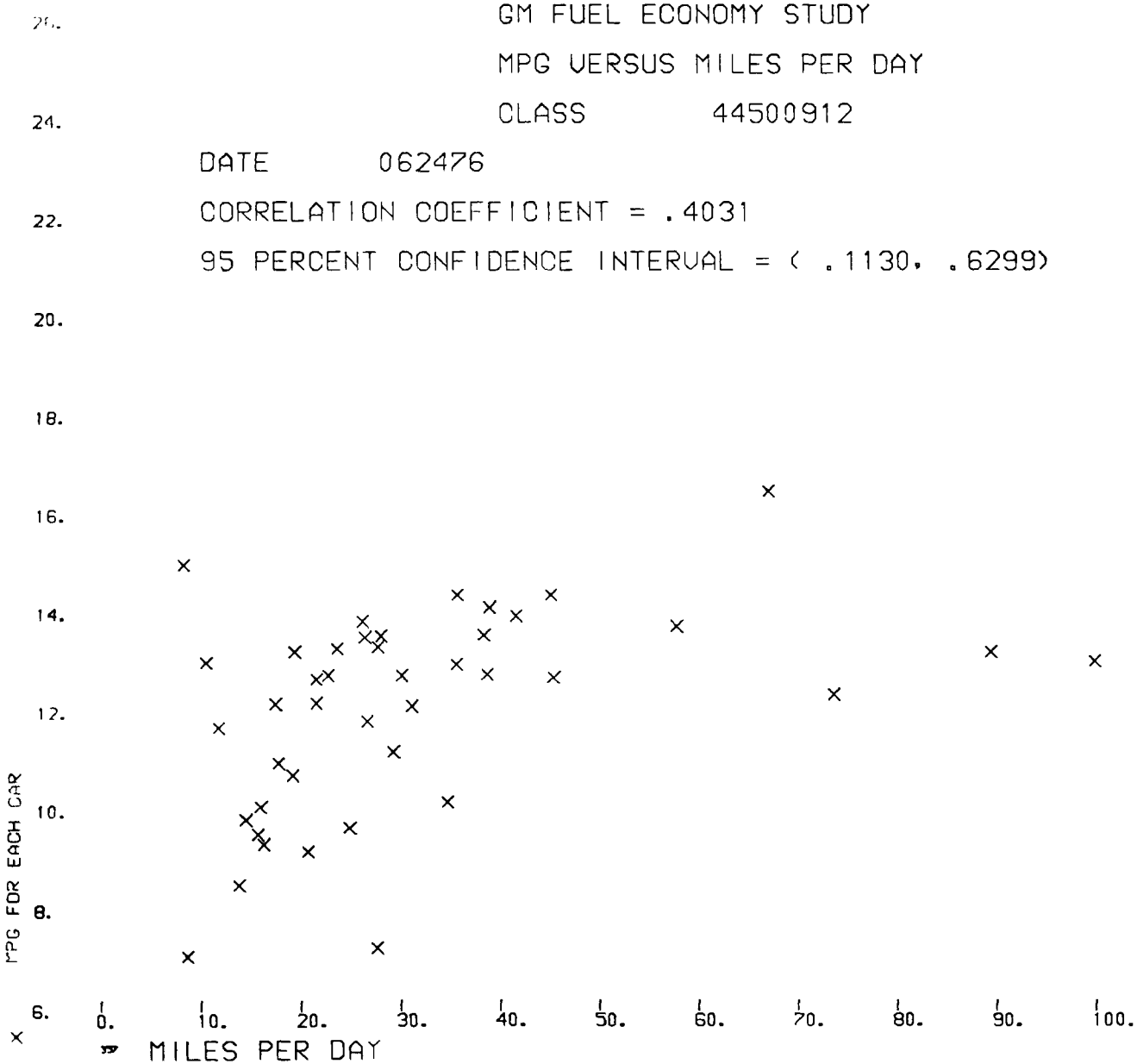
MPG VERSUS MILES PER DAY

CLASS 44500912

DATE 062476

CORRELATION COEFFICIENT = .4031

95 PERCENT CONFIDENCE INTERVAL = (.1130, .6299)



GM FUEL ECONOMY STUDY

MPG VERSUS POPULATION

CLASS 45001413

DATE 062476

CORRELATION COEFFICIENT = .3315

95 PERCENT CONFIDENCE INTERVAL = (.0307, .5773)

GM FUEL ECONOMY STUDY

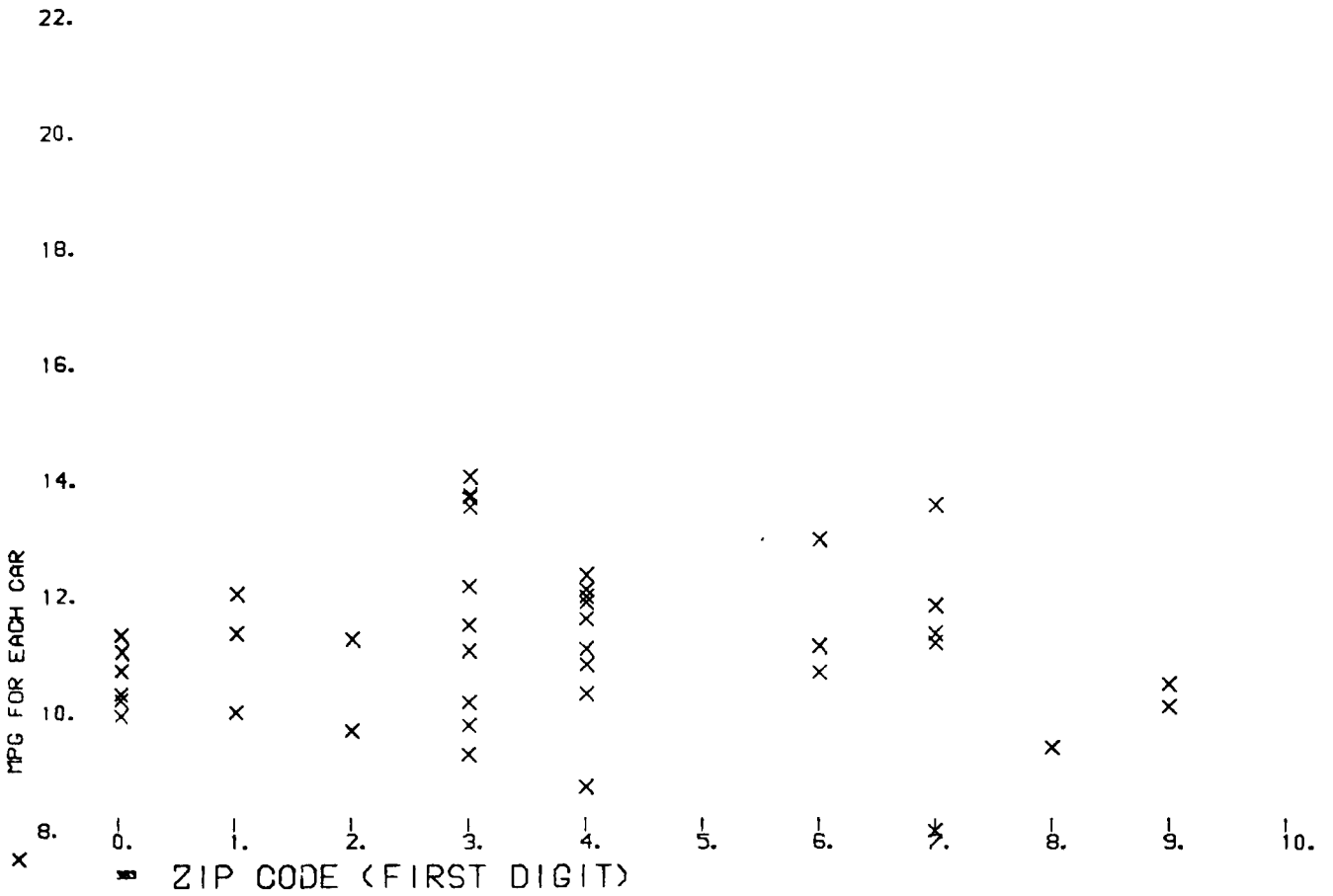
MPG VERSUS ZIP CODE

CLASS 45001413

DATE 062476

CORRELATION COEFFICIENT = .0324

95 PERCENT CONFIDENCE INTERVAL = (-.2742, .3331)



GM FUEL ECONOMY STUDY

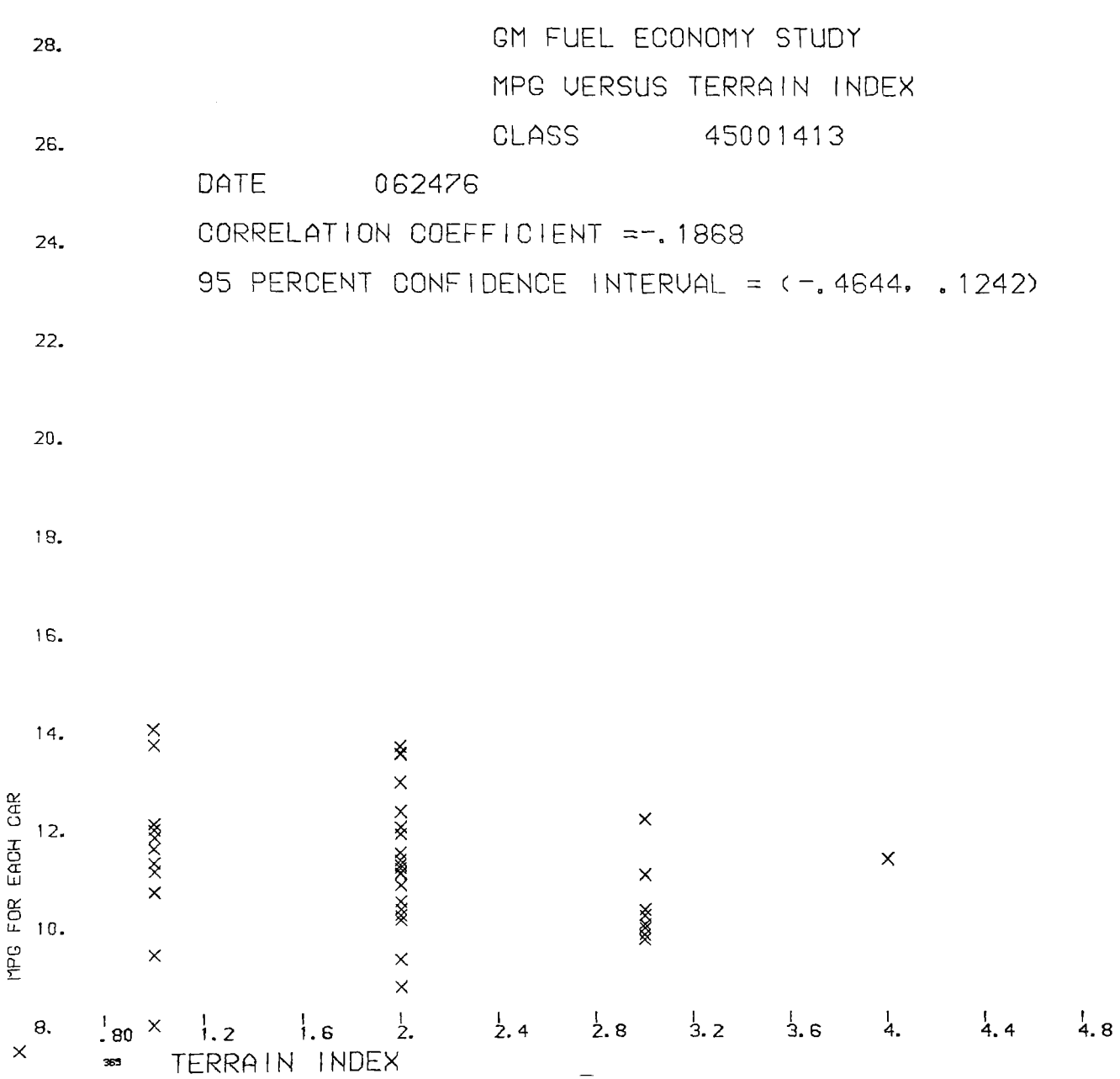
MPG VERSUS TERRAIN INDEX

CLASS 45001413

DATE 062476

CORRELATION COEFFICIENT =-.1868

95 PERCENT CONFIDENCE INTERVAL = (-.4644, .1242)



GM FUEL ECONOMY STUDY

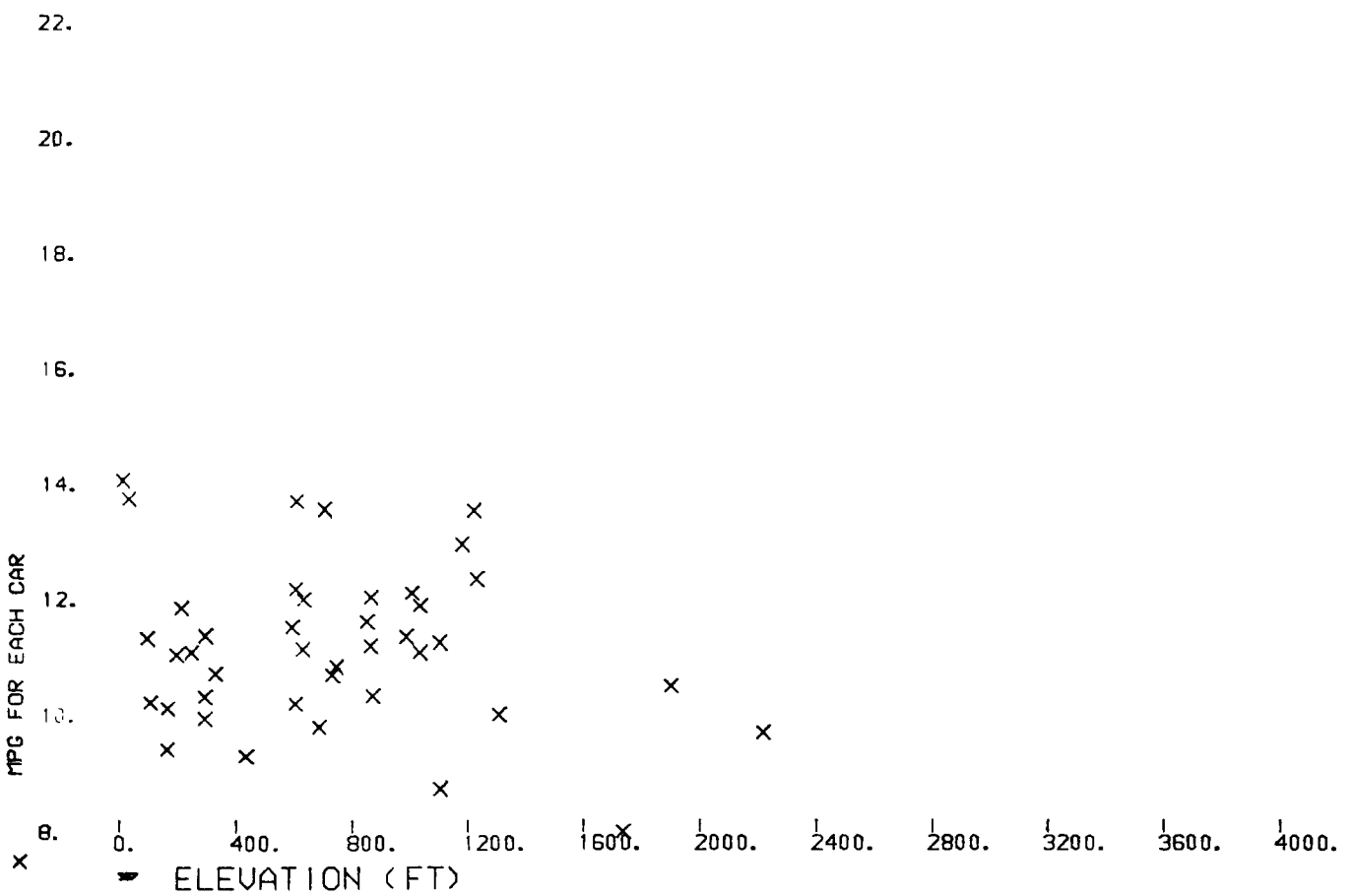
MPG VERSUS ELEVATION

CLASS 45001413

DATE 062476

CORRELATION COEFFICIENT =-.1898

95 PERCENT CONFIDENCE INTERVAL = (-.4668, .1211)



GM FUEL ECONOMY STUDY

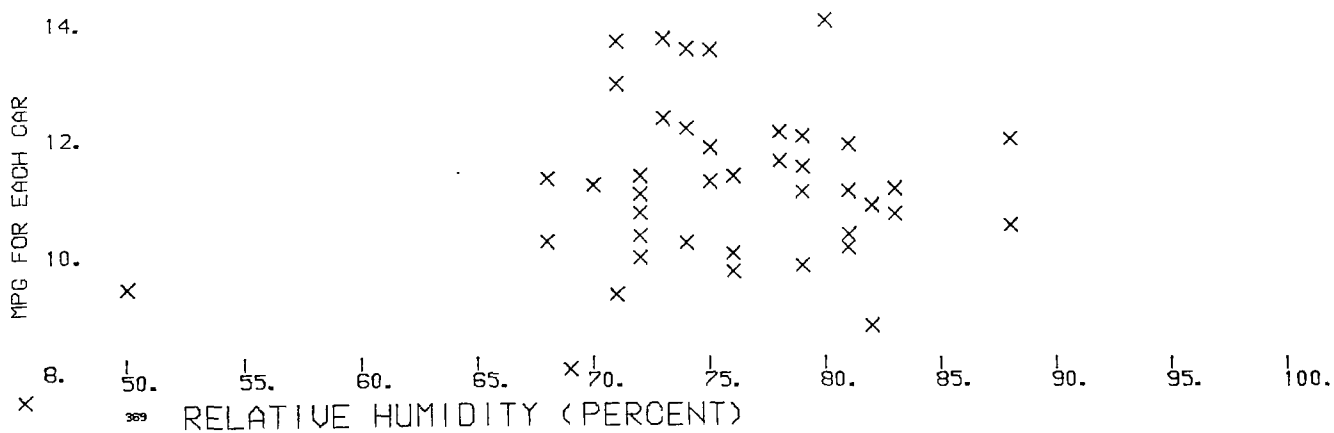
MPG VERSUS RELATIVE HUMIDITY

CLASS 45001413

DATE 062476

CORRELATION COEFFICIENT = .1212

95 PERCENT CONFIDENCE INTERVAL = (-.1897, .4100)



GM FUEL ECONOMY STUDY

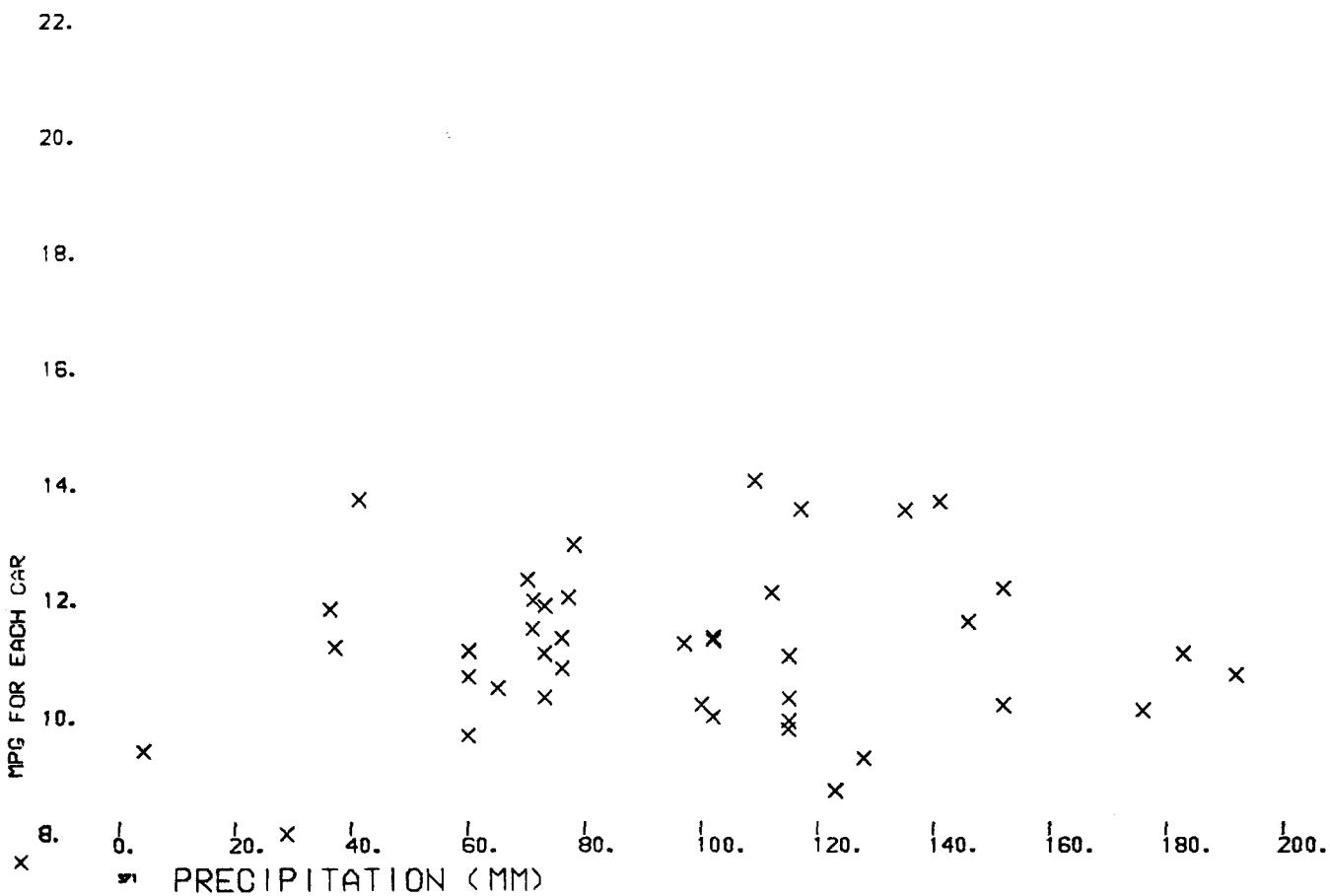
MPG VERSUS PRECIPITATION

CLASS 45001413

DATE 062476

CORRELATION COEFFICIENT = .0896

95 PERCENT CONFIDENCE INTERVAL = (-.2204, .3831)



GM FUEL ECONOMY STUDY

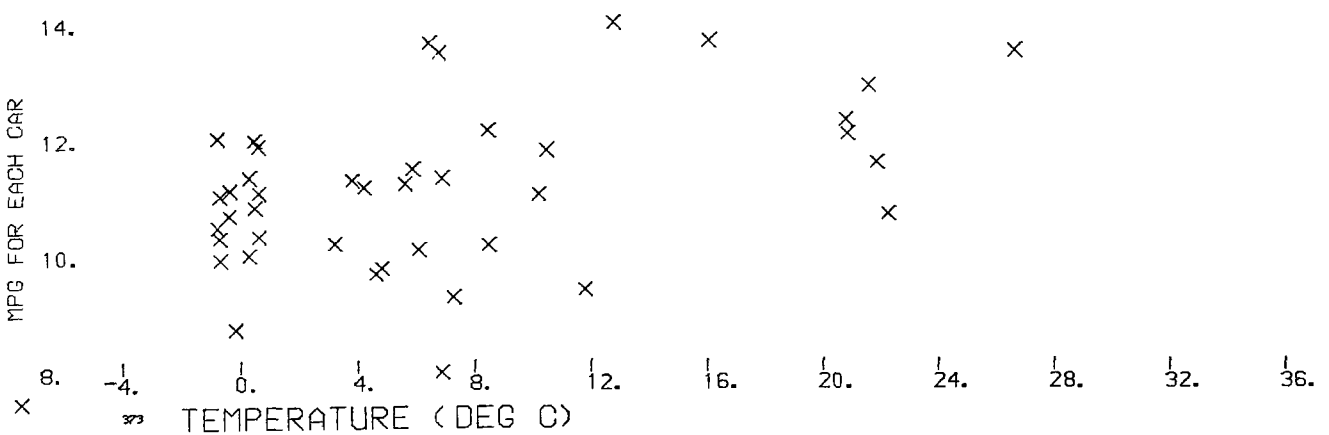
MPG VERSUS TEMPERATURE

CLASS 45001413

DATE 062476

CORRELATION COEFFICIENT = .4820

95 PERCENT CONFIDENCE INTERVAL = (.2087, .6855)



GM FUEL ECONOMY STUDY

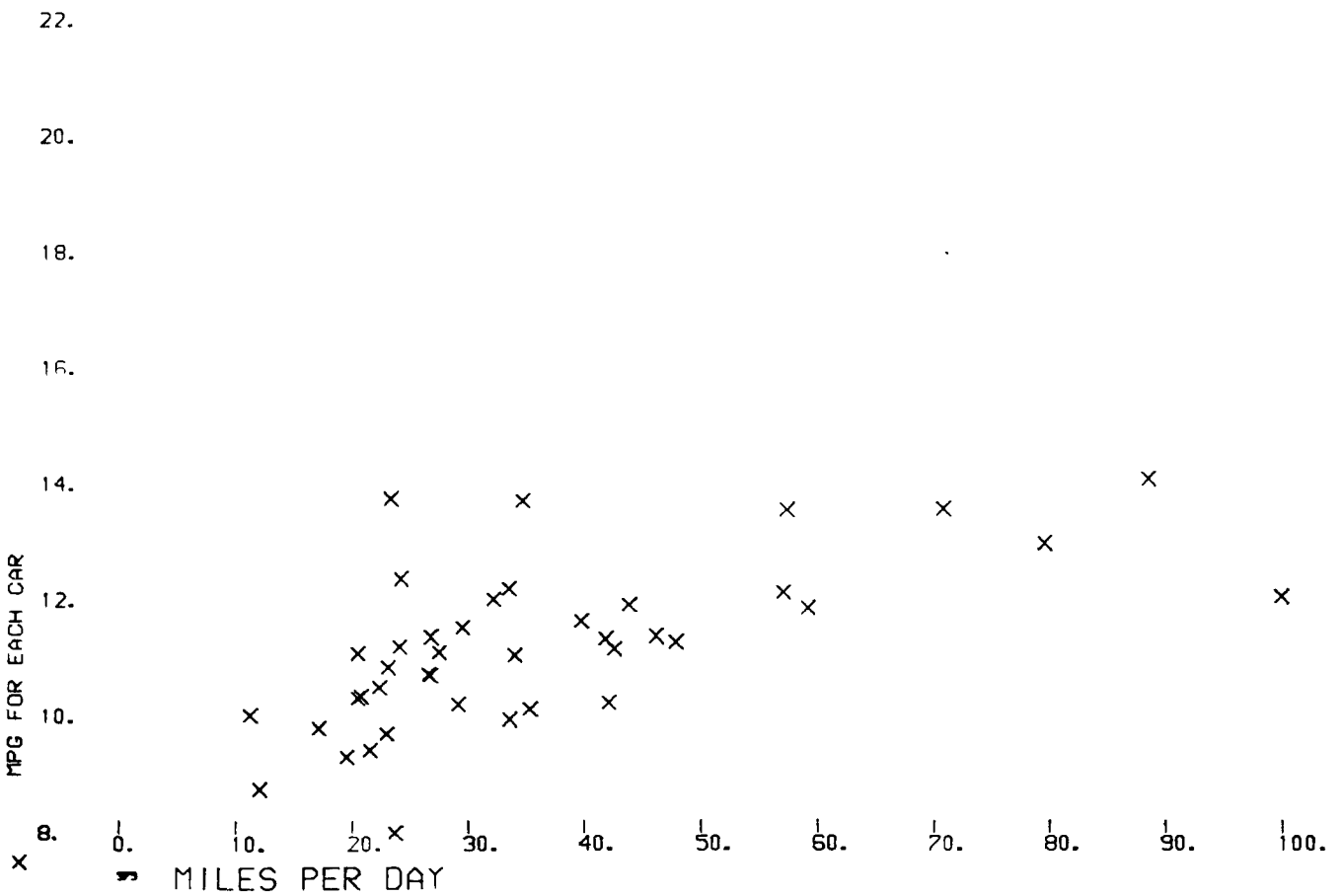
MPG VERSUS MILES PER DAY

CLASS 45001413

DATE 062476

CORRELATION COEFFICIENT = .5273

95 PERCENT CONFIDENCE INTERVAL = (.2660, .7164)



GM FUEL ECONOMY STUDY

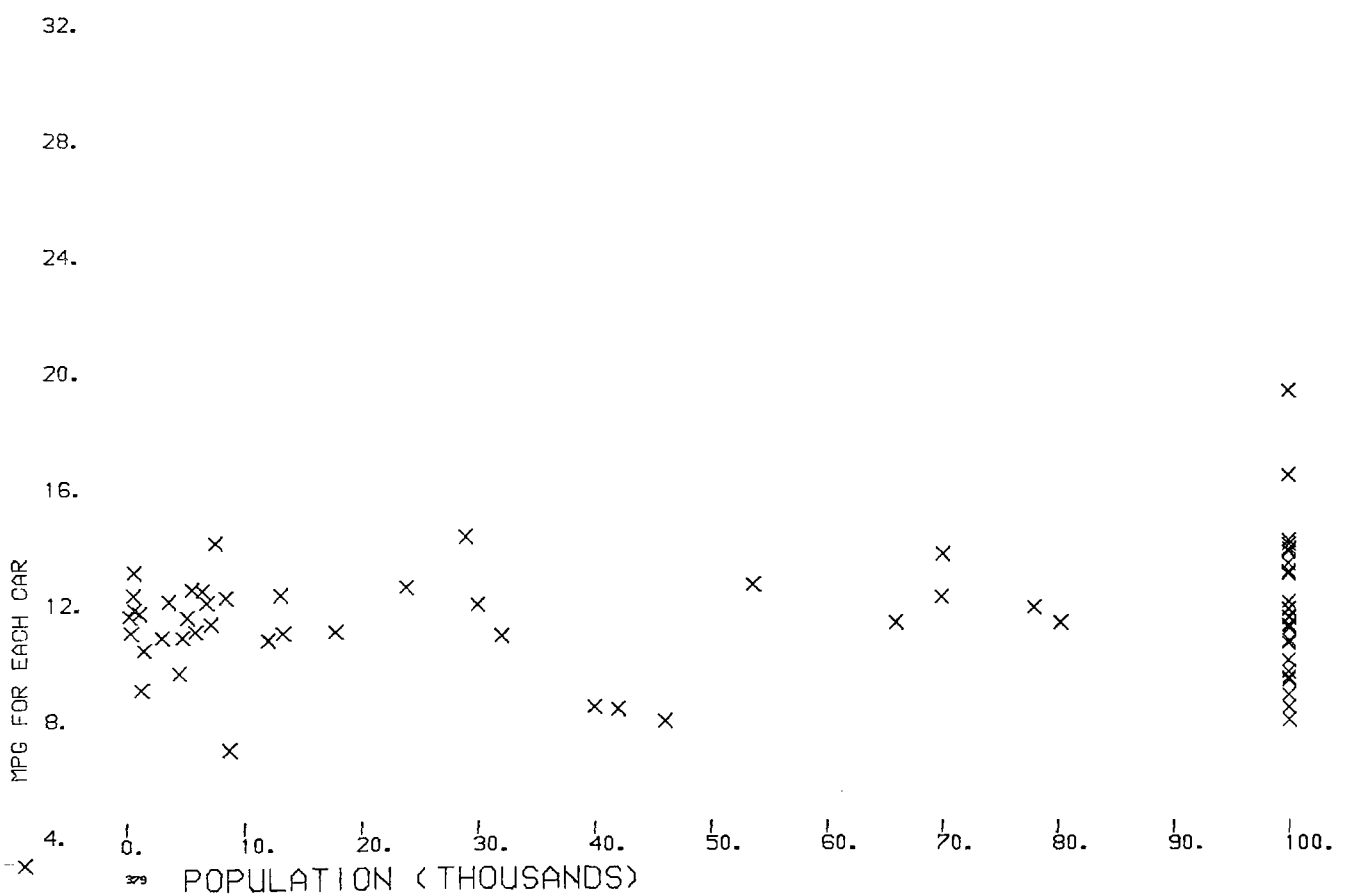
MPG VERSUS POPULATION

CLASS 45251014

DATE 062476

CORRELATION COEFFICIENT = .0725

95 PERCENT CONFIDENCE INTERVAL = (-.1653, .3023)



GM FUEL ECONOMY STUDY

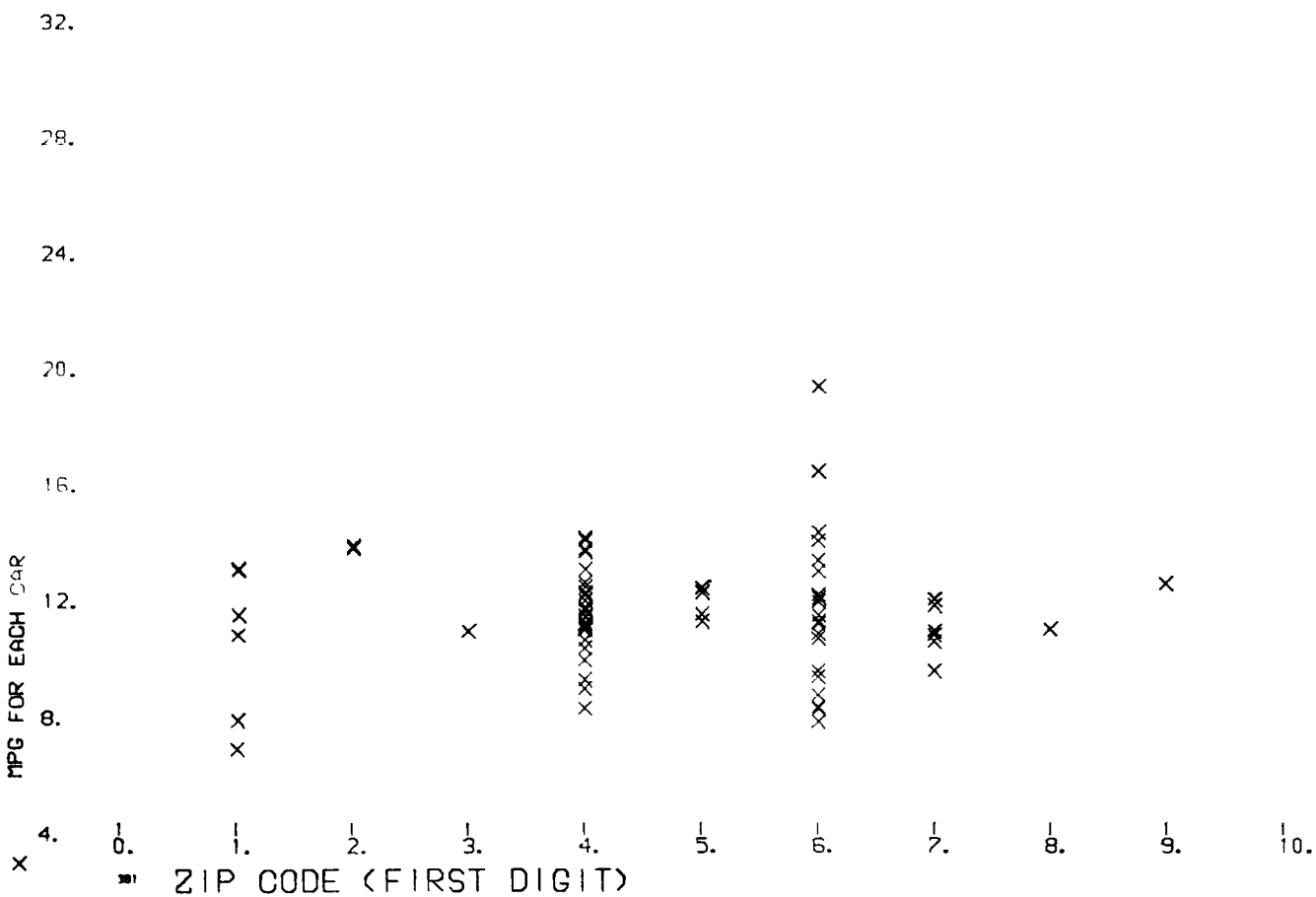
MPG VERSUS ZIP CODE

CLASS 45251014

DATE 062476

CORRELATION COEFFICIENT = .0163

95 PERCENT CONFIDENCE INTERVAL = (-.2195, .2503)



GM FUEL ECONOMY STUDY

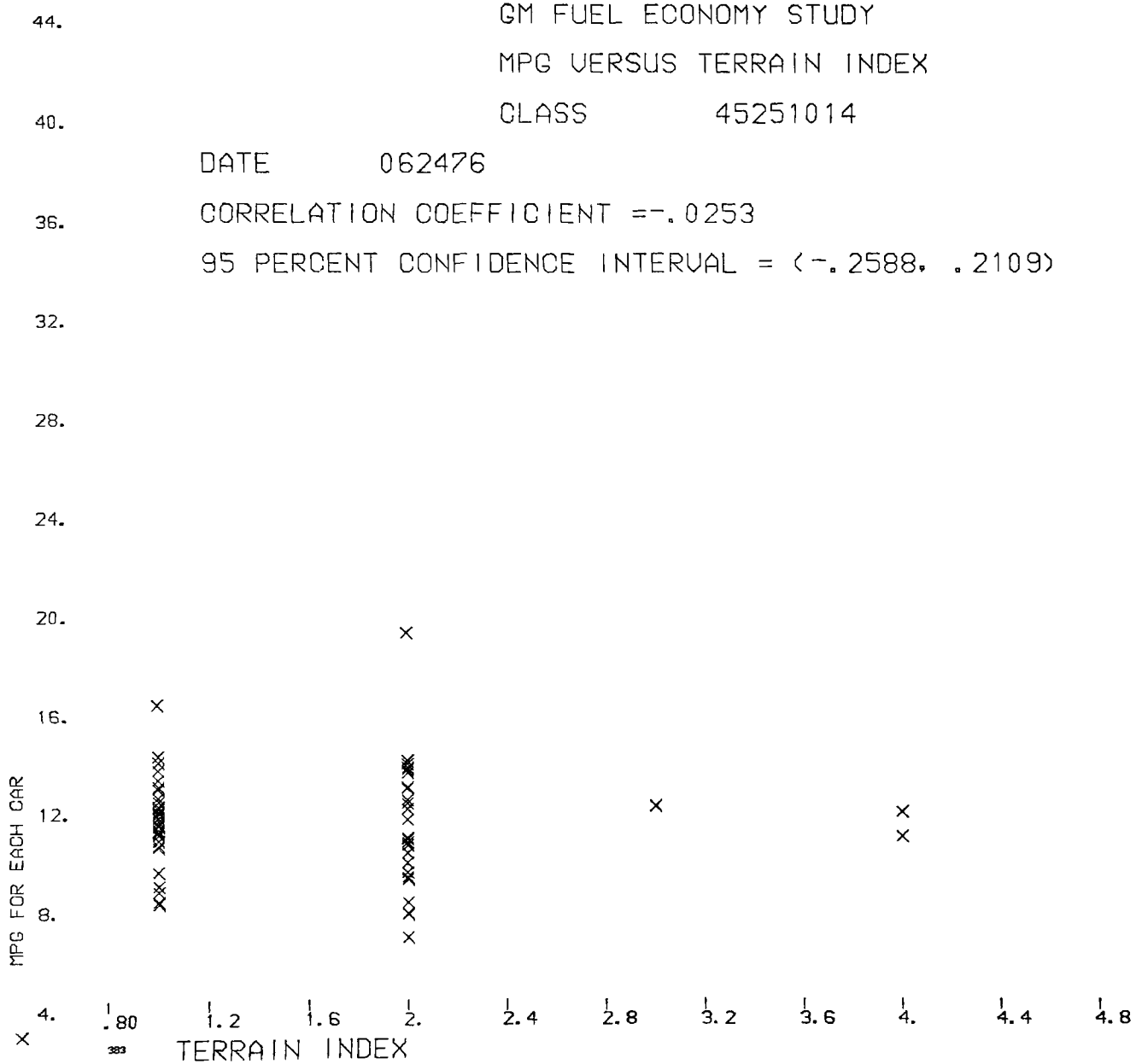
MPG VERSUS TERRAIN INDEX

CLASS 45251014

DATE 062476

CORRELATION COEFFICIENT =-.0253

95 PERCENT CONFIDENCE INTERVAL = (-.2588, .2109)



GM FUEL ECONOMY STUDY

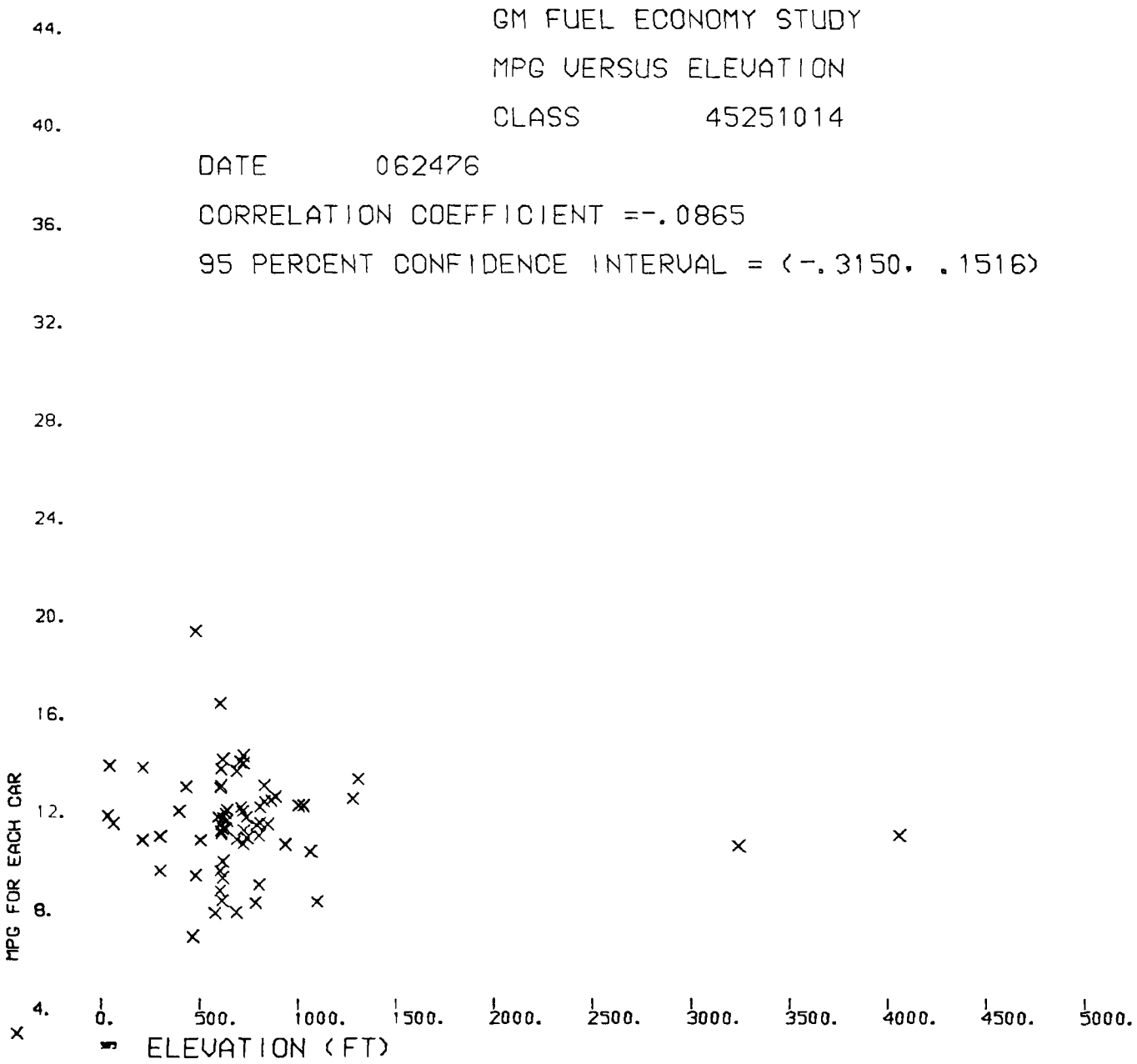
MPG VERSUS ELEVATION

CLASS 45251014

DATE 062476

CORRELATION COEFFICIENT =-.0865

95 PERCENT CONFIDENCE INTERVAL = (-.3150, .1516)



GM FUEL ECONOMY STUDY

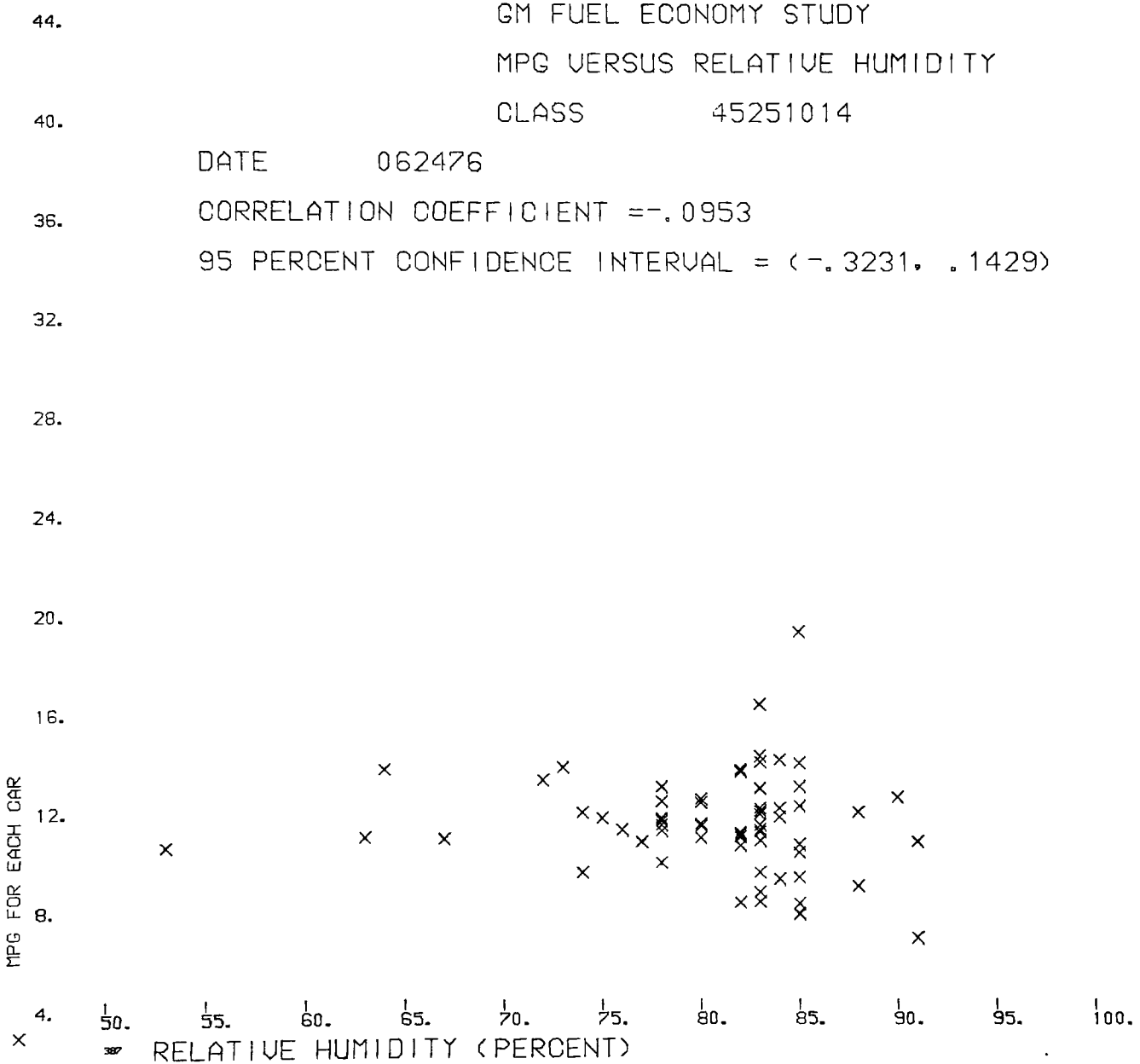
MPG VERSUS RELATIVE HUMIDITY

CLASS 45251014

DATE 062476

CORRELATION COEFFICIENT =-.0953

95 PERCENT CONFIDENCE INTERVAL = (-.3231, .1429)



GM FUEL ECONOMY STUDY

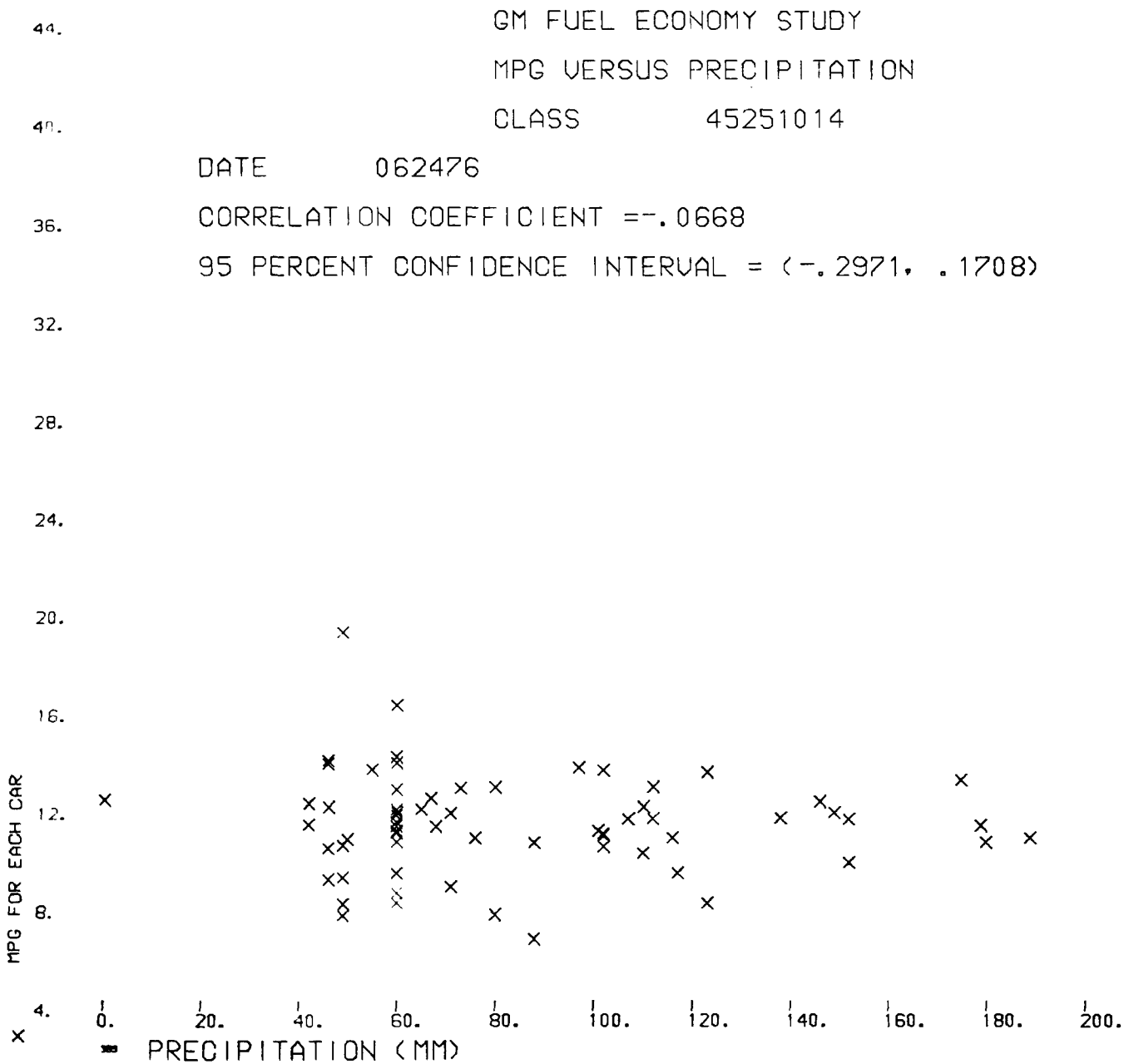
MPG VERSUS PRECIPITATION

CLASS 45251014

DATE 062476

CORRELATION COEFFICIENT =-.0668

95 PERCENT CONFIDENCE INTERVAL = (-.2971, .1708)



GM FUEL ECONOMY STUDY

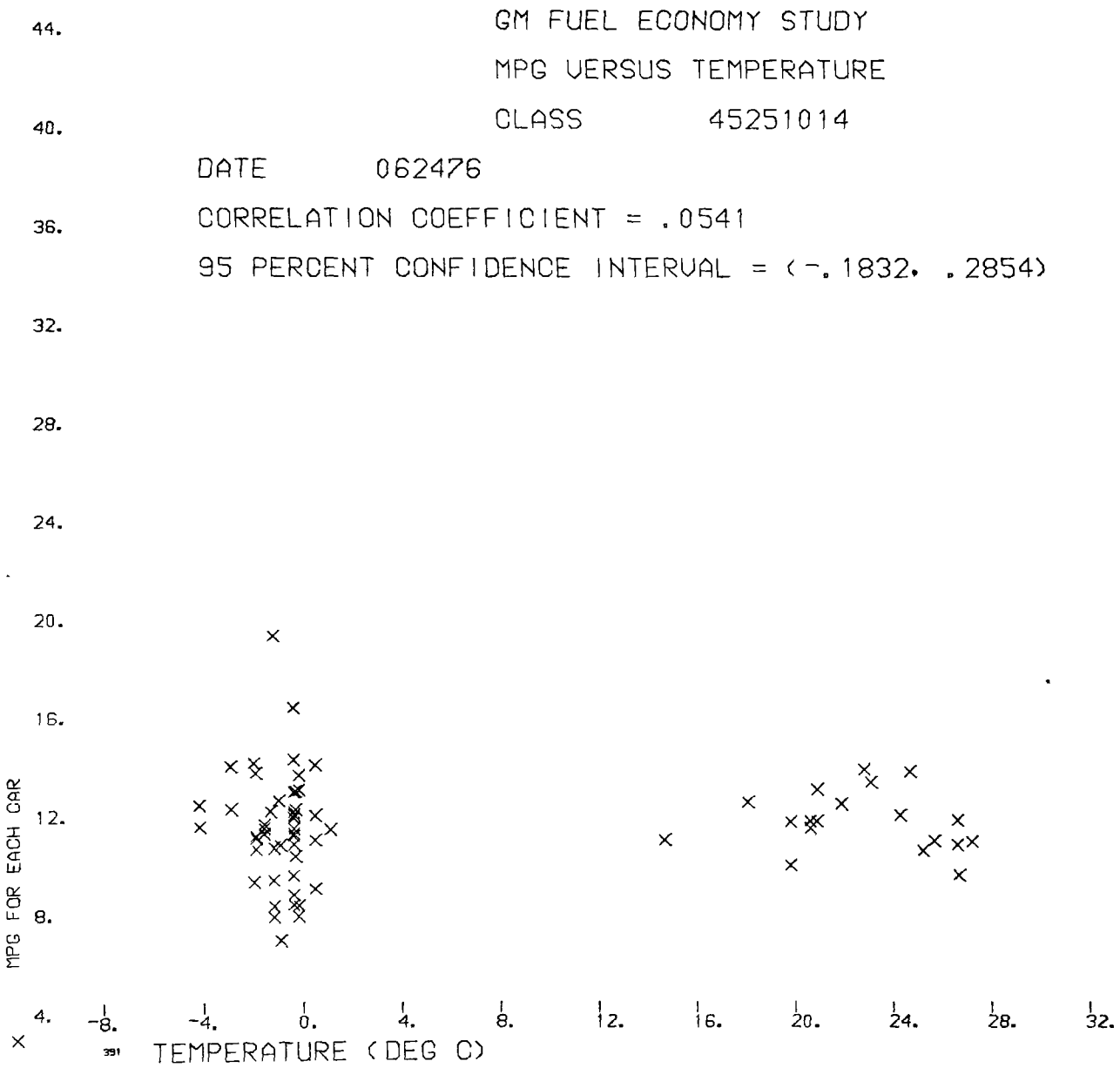
MPG VERSUS TEMPERATURE

CLASS 45251014

DATE 062476

CORRELATION COEFFICIENT = .0541

95 PERCENT CONFIDENCE INTERVAL = (-.1832, .2854)



GM FUEL ECONOMY STUDY

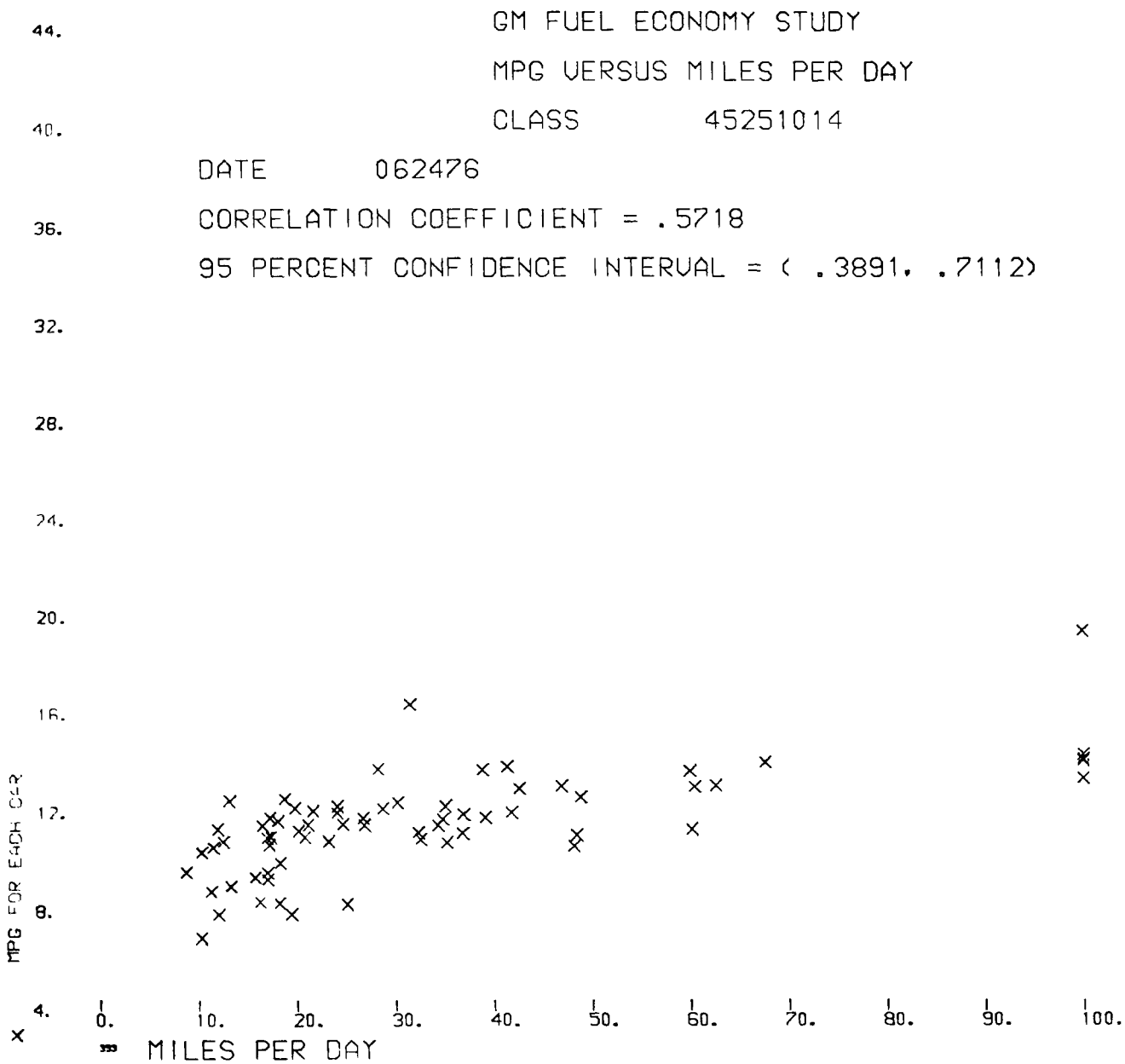
MPG VERSUS MILES PER DAY

CLASS 45251014

DATE 062476

CORRELATION COEFFICIENT = .5718

95 PERCENT CONFIDENCE INTERVAL = (.3891, .7112)



GM FUEL ECONOMY STUDY

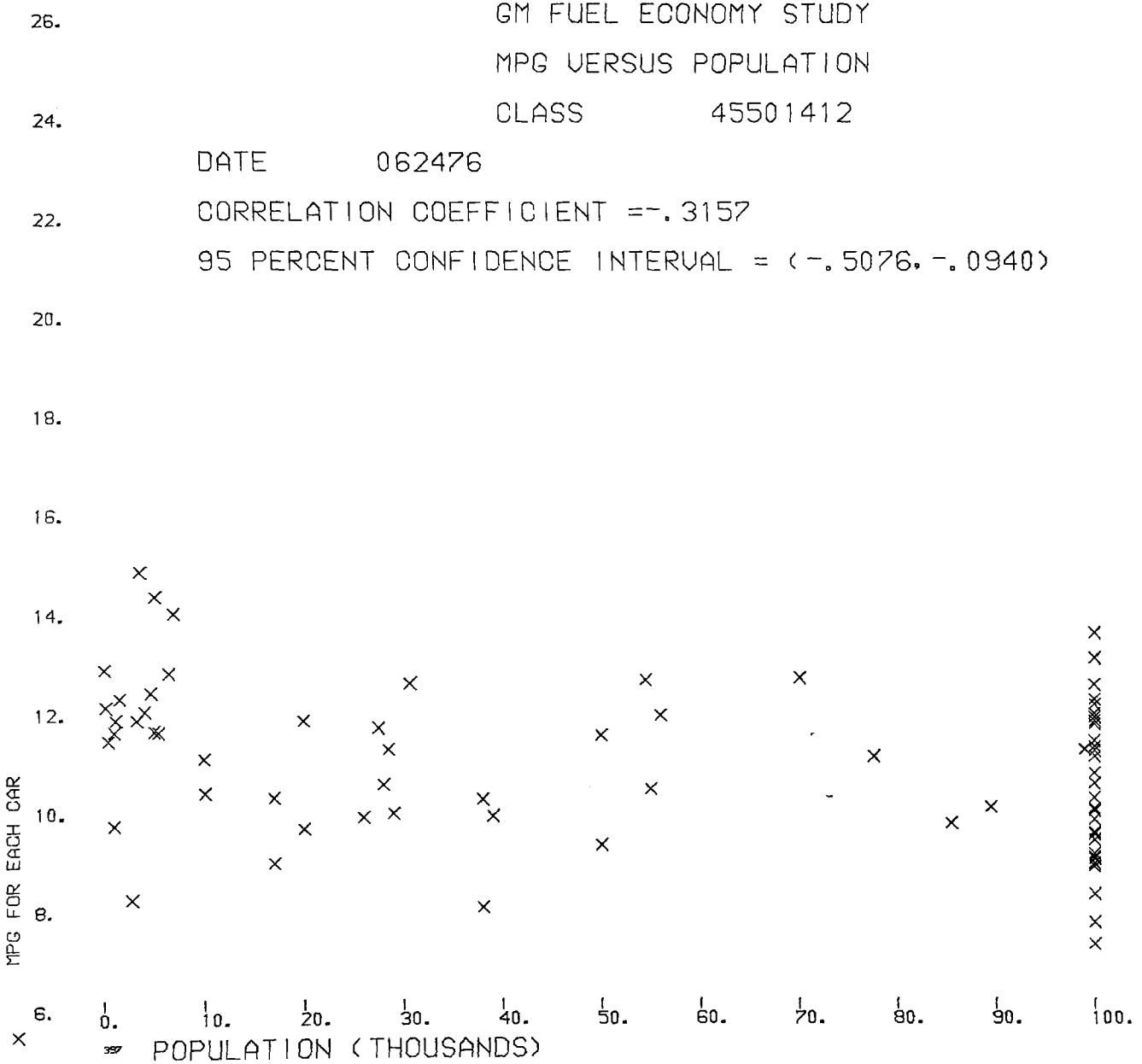
MPG VERSUS POPULATION

CLASS 45501412

DATE 062476

CORRELATION COEFFICIENT =-.3157

95 PERCENT CONFIDENCE INTERVAL = (-.5076, -.0940)



GM FUEL ECONOMY STUDY

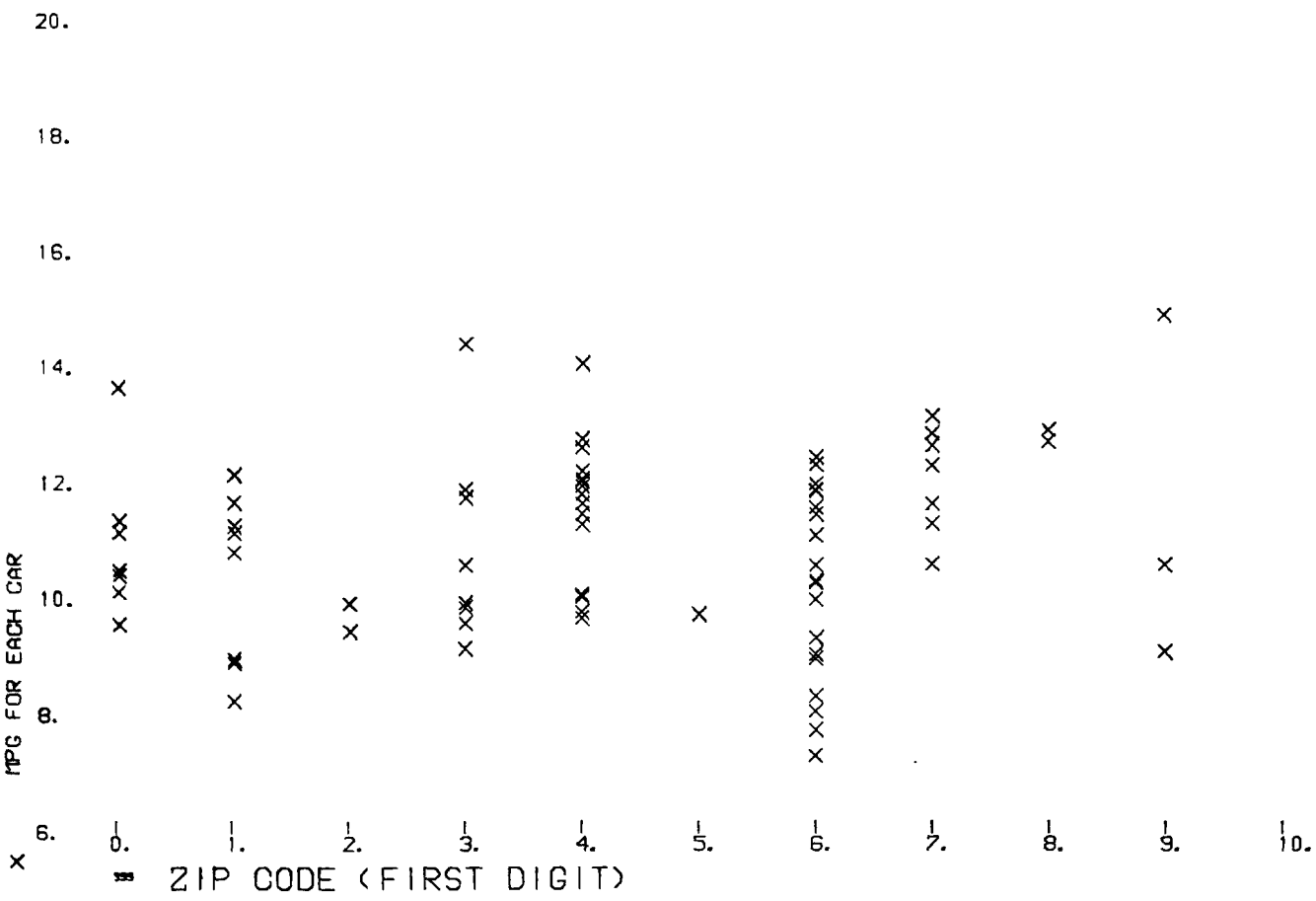
MPG VERSUS ZIP CODE

CLASS 45501412

DATE 062476

CORRELATION COEFFICIENT = .1348

95 PERCENT CONFIDENCE INTERVAL = (-.0967, .3524)



GM FUEL ECONOMY STUDY

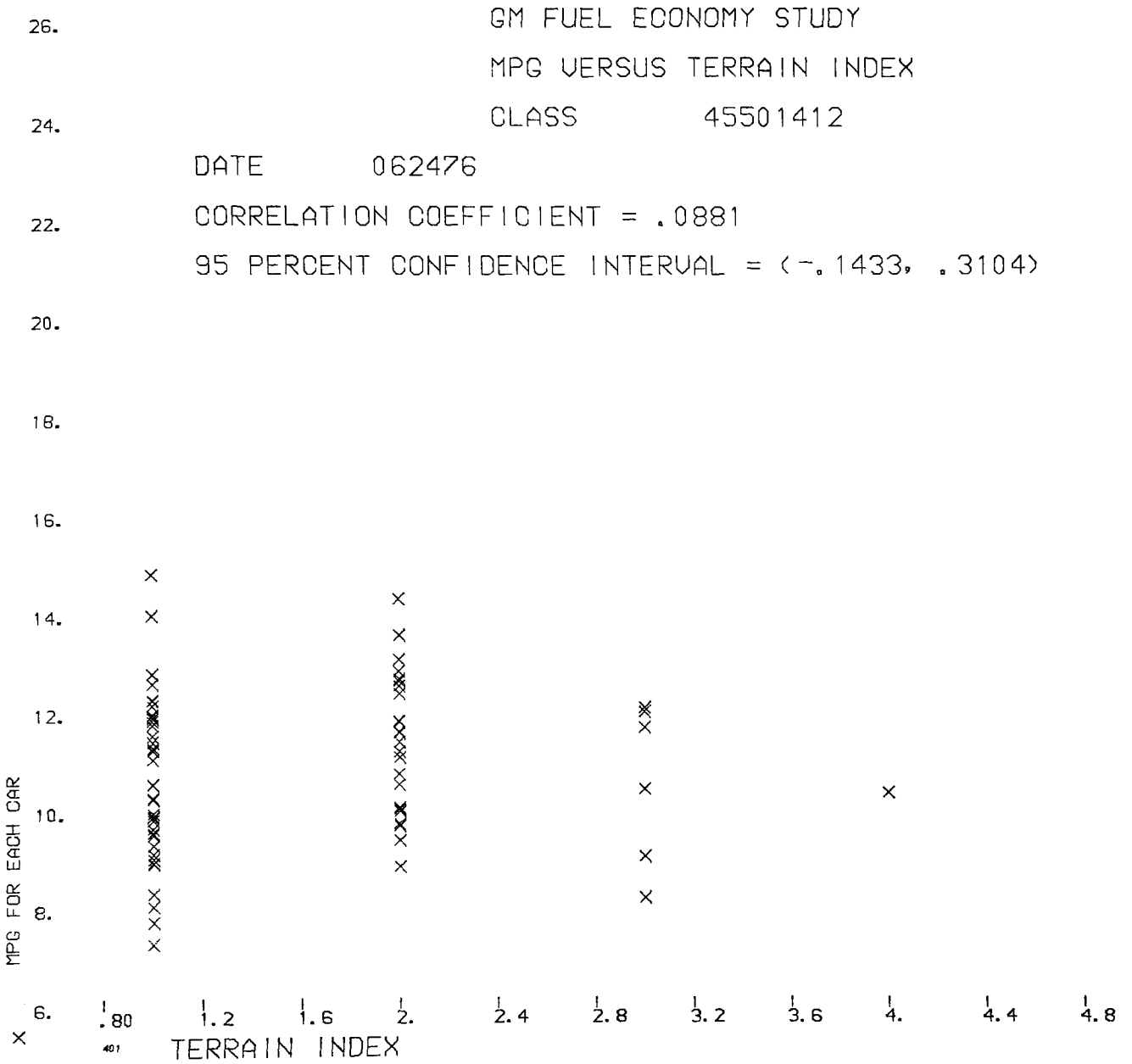
MPG VERSUS TERRAIN INDEX

CLASS 45501412

DATE 062476

CORRELATION COEFFICIENT = .0881

95 PERCENT CONFIDENCE INTERVAL = (-.1433, .3104)



GM FUEL ECONOMY STUDY

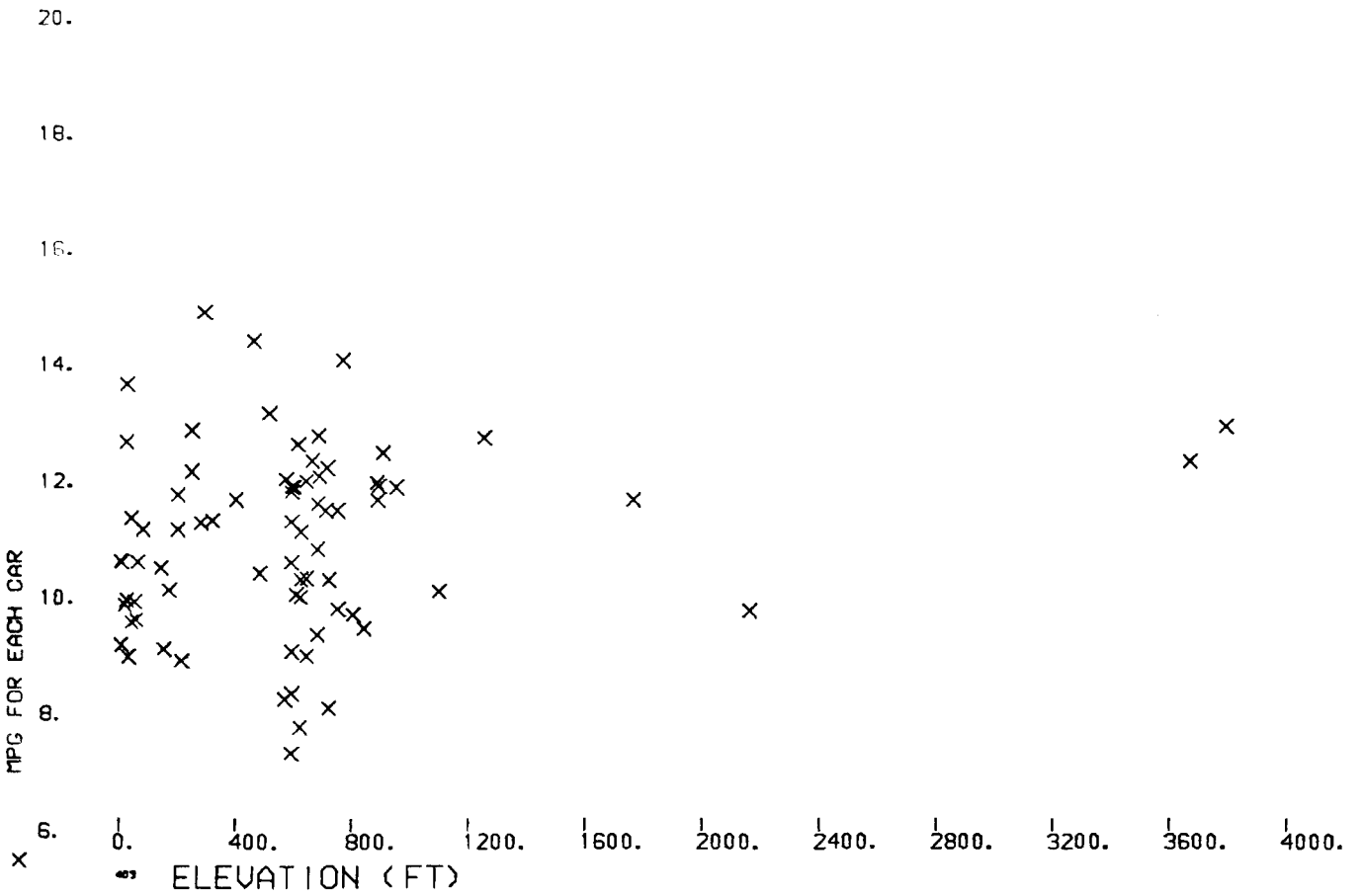
MPG VERSUS ELEVATION

CLASS 45501412

DATE 062476

CORRELATION COEFFICIENT = .1754

95 PERCENT CONFIDENCE INTERVAL = (-.0554, .3883)



GM FUEL ECONOMY STUDY

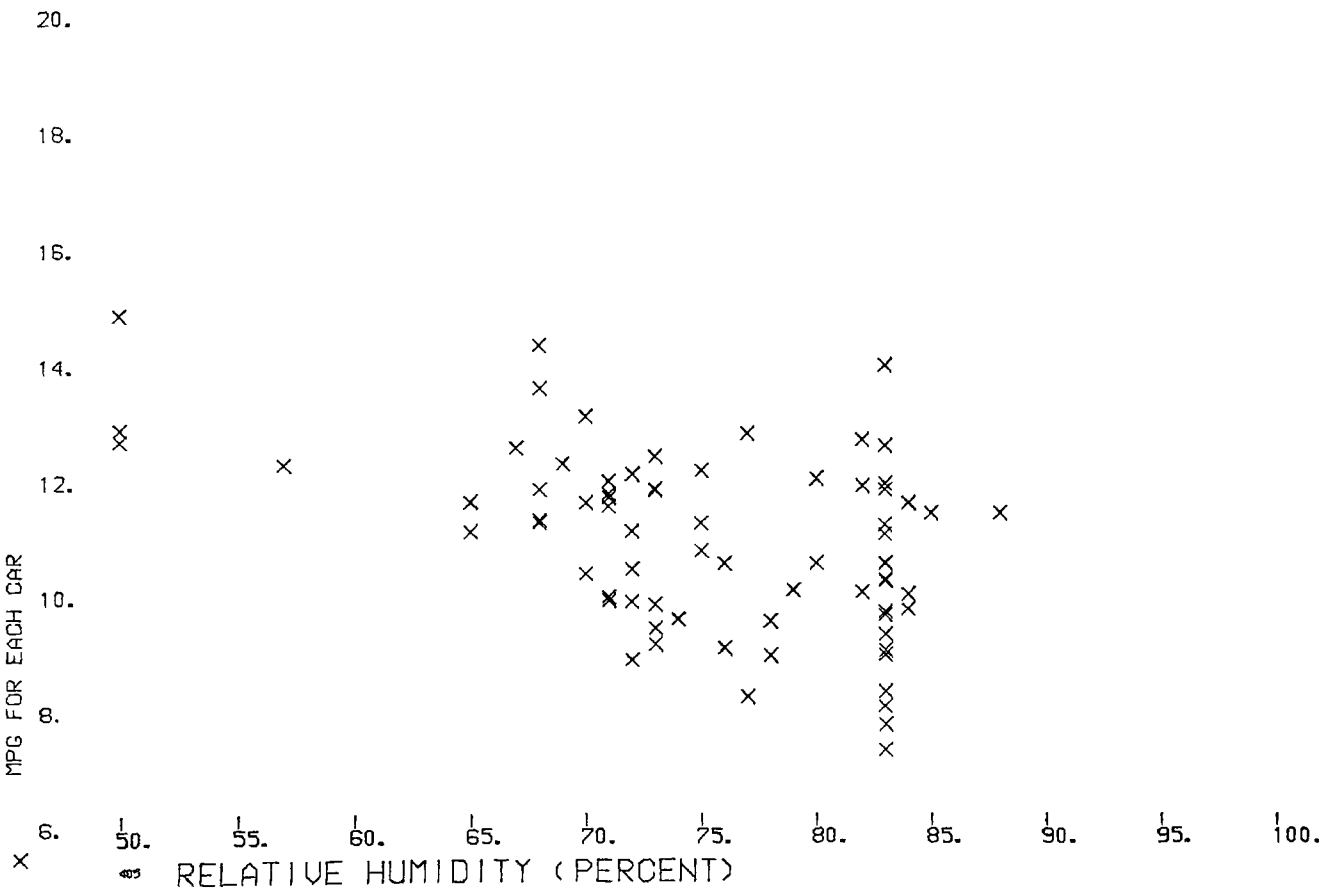
MPG VERSUS RELATIVE HUMIDITY

CLASS 45501412

DATE 062476

CORRELATION COEFFICIENT =-.4280

95 PERCENT CONFIDENCE INTERVAL = (-.5980, -.2211)



GM FUEL ECONOMY STUDY

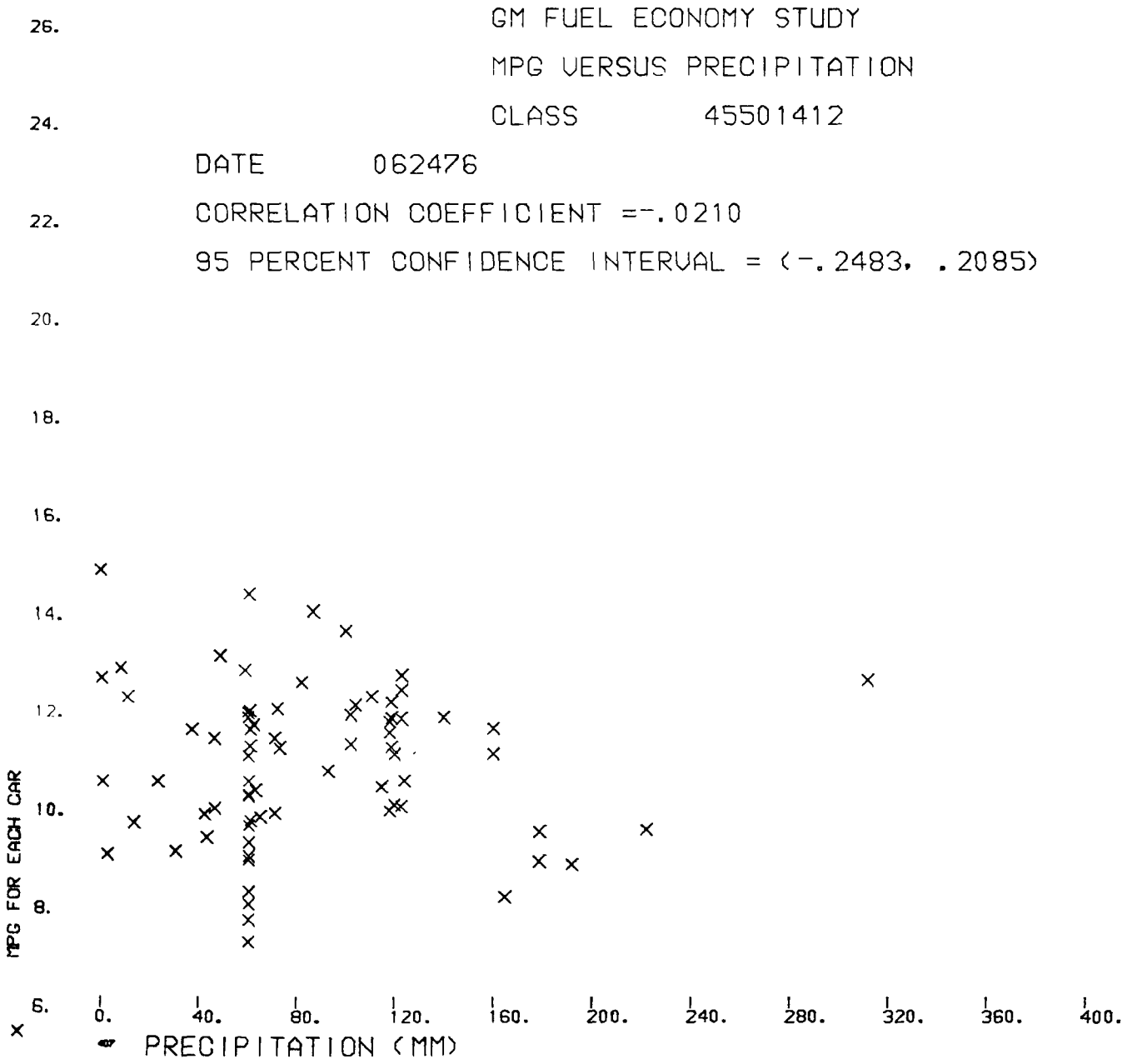
MPG VERSUS PRECIPITATION

CLASS 45501412

DATE 062476

CORRELATION COEFFICIENT =-.0210

95 PERCENT CONFIDENCE INTERVAL = (-.2483, .2085)



GM FUEL ECONOMY STUDY

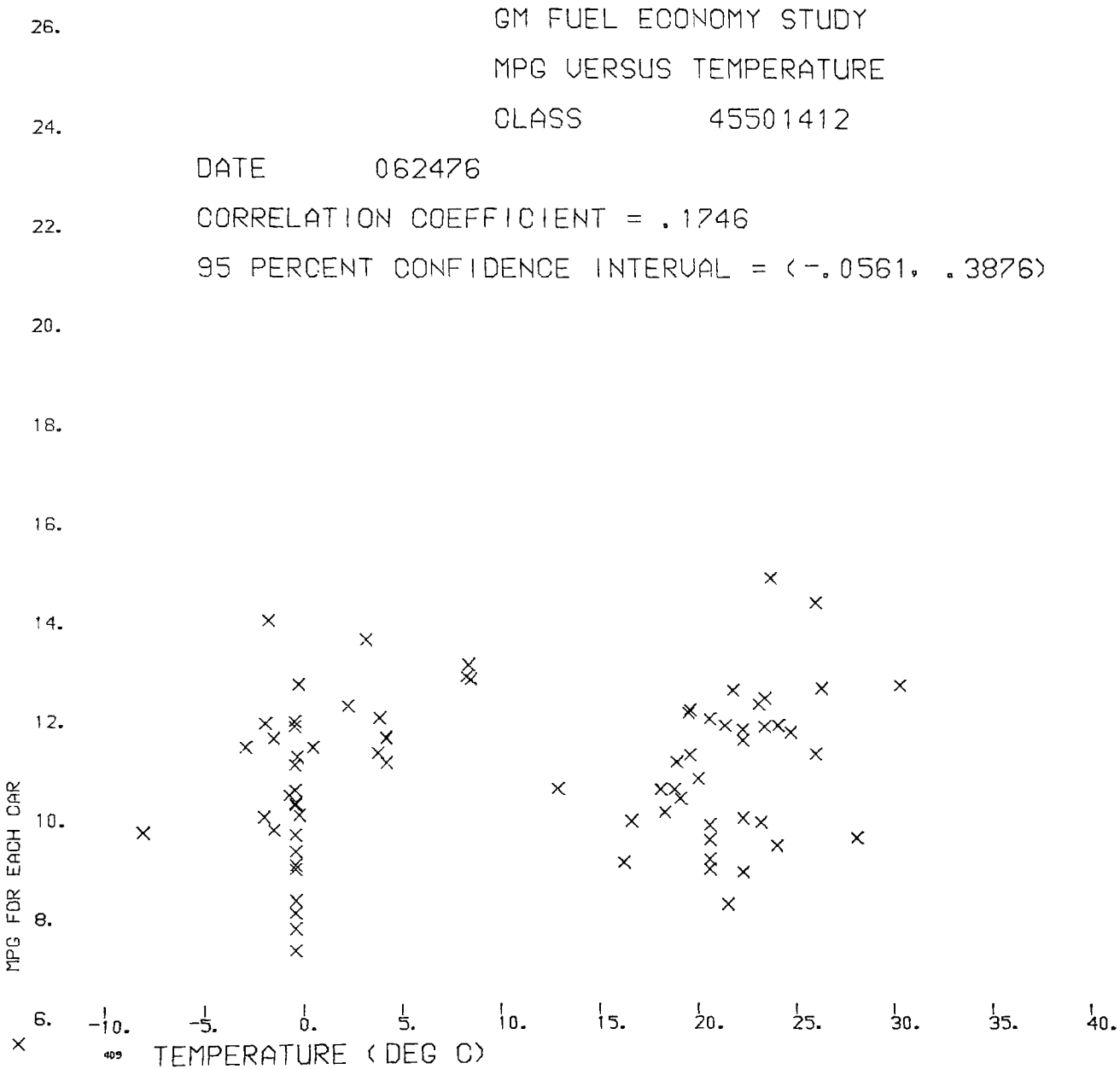
MPG VERSUS TEMPERATURE

CLASS 45501412

DATE 062476

CORRELATION COEFFICIENT = .1746

95 PERCENT CONFIDENCE INTERVAL = (-.0561, .3876)



GM FUEL ECONOMY STUDY

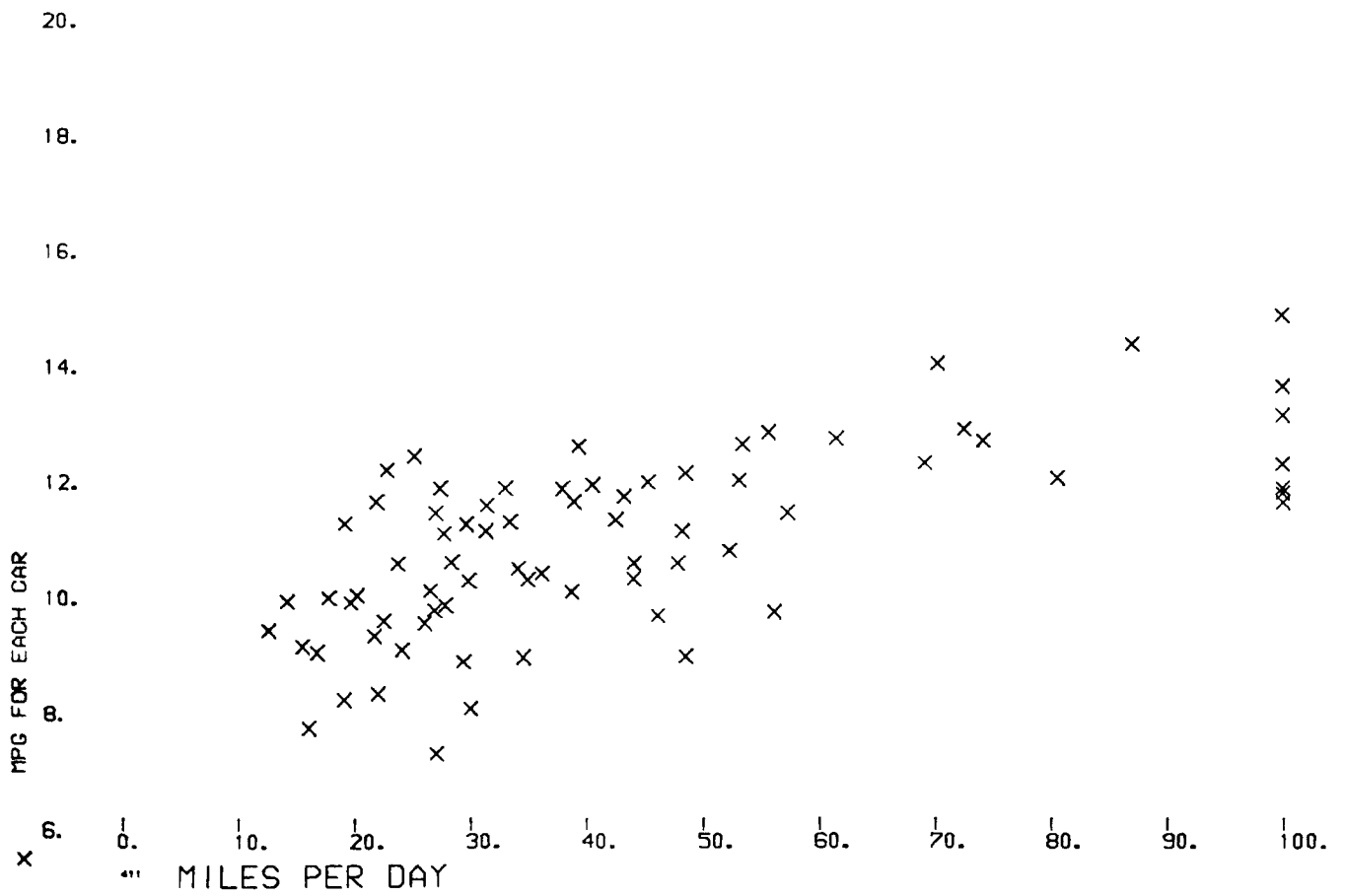
MPG VERSUS MILES PER DAY

CLASS 45501412

DATE 062476

CORRELATION COEFFICIENT = .5232

95 PERCENT CONFIDENCE INTERVAL = (.3347, .6714)



GM FUEL ECONOMY STUDY

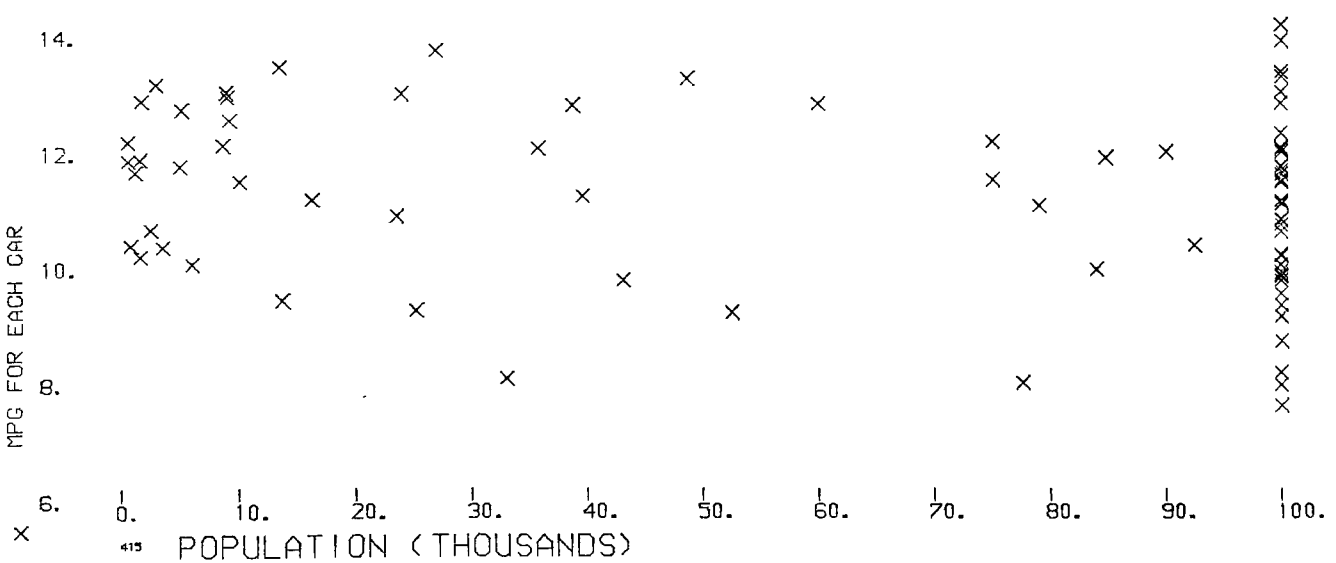
MPG VERSUS POPULATION

CLASS 65501512

DATE 062476

CORRELATION COEFFICIENT =-.1158

95 PERCENT CONFIDENCE INTERVAL = (-.3234, .1024)



GM FUEL ECONOMY STUDY

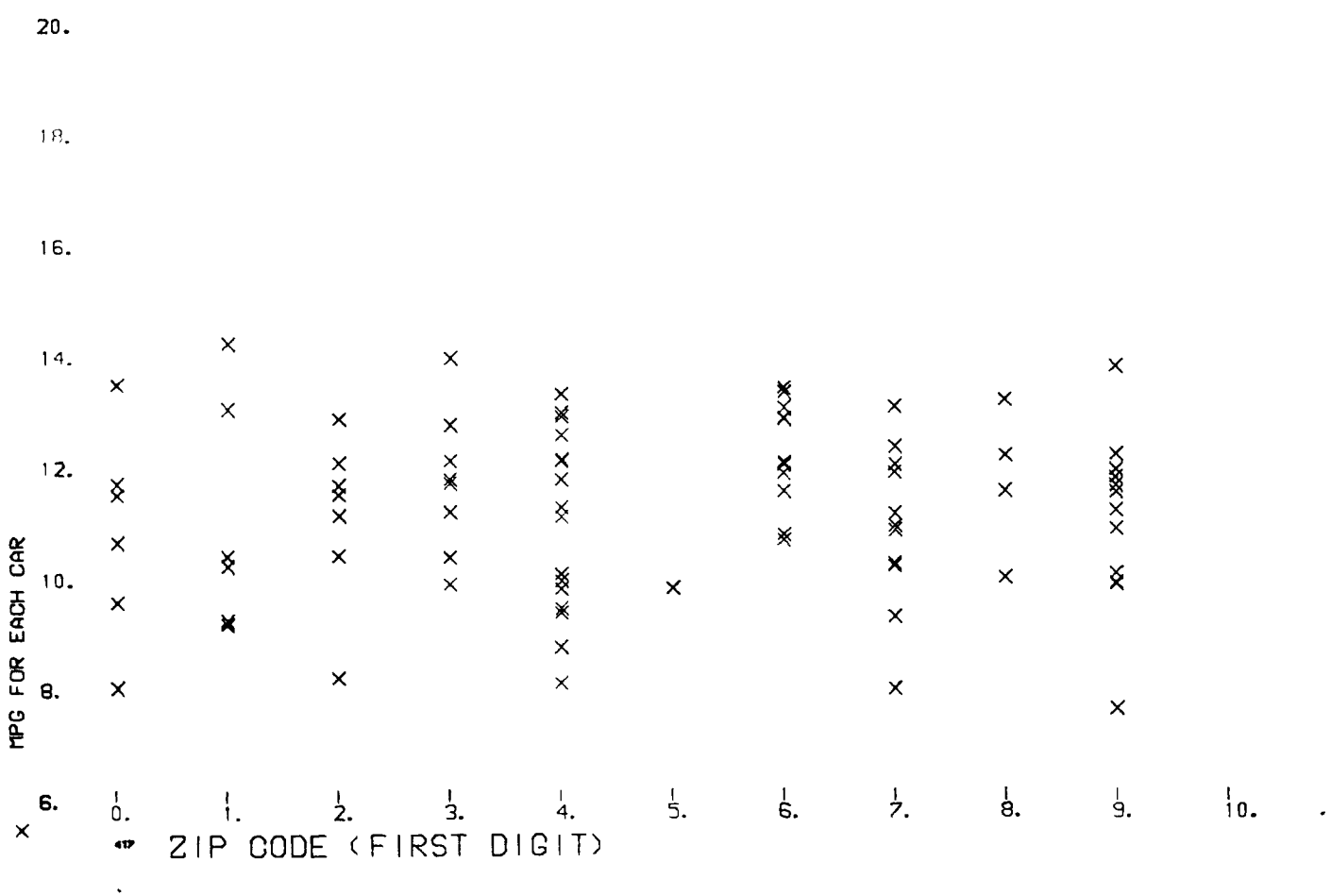
MPG VERSUS ZIP CODE

CLASS 65501512

DATE 062476

CORRELATION COEFFICIENT = .0660

95 PERCENT CONFIDENCE INTERVAL = (-.1518, .2777)



GM FUEL ECONOMY STUDY

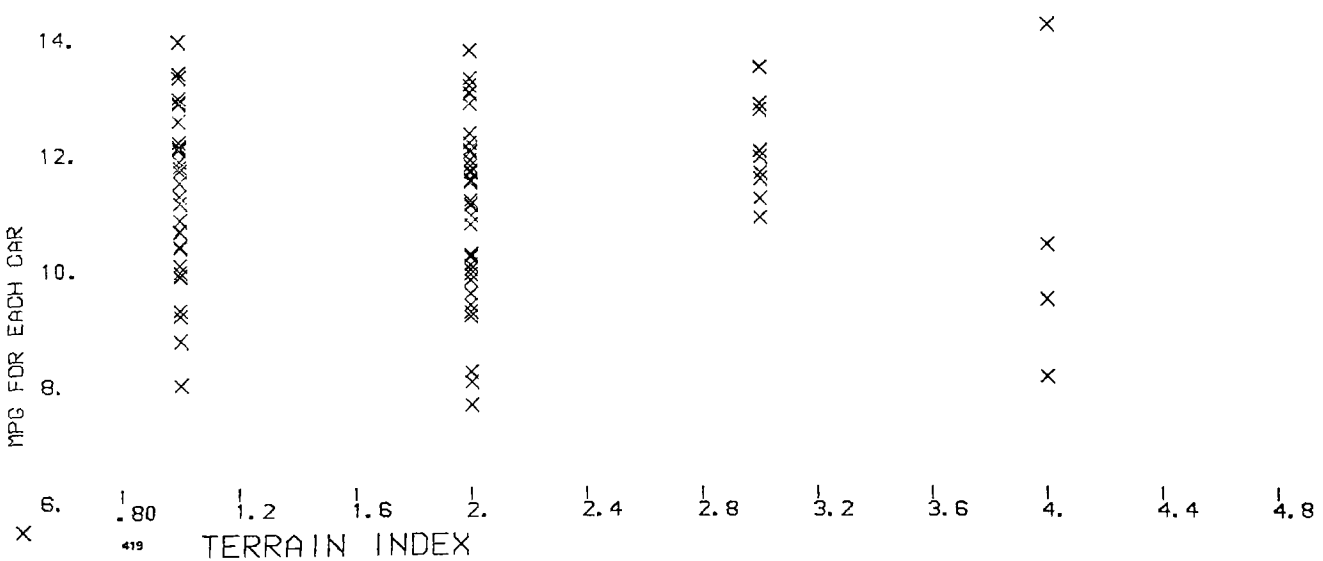
MPG VERSUS TERRAIN INDEX

CLASS 65501512

DATE 062476

CORRELATION COEFFICIENT =-.0057

95 PERCENT CONFIDENCE INTERVAL = (-.2211, .2103)



GM FUEL ECONOMY STUDY

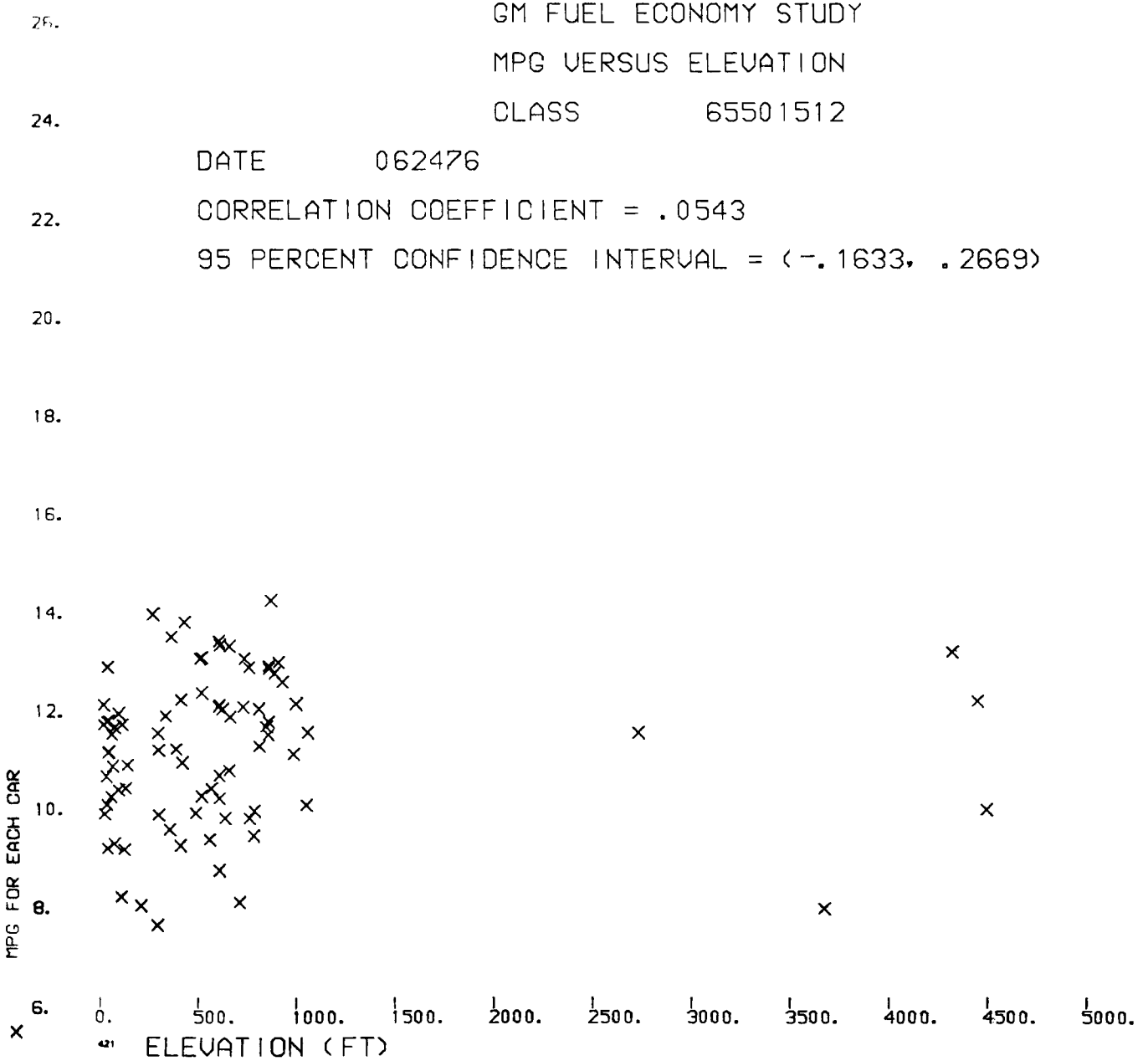
MPG VERSUS ELEVATION

CLASS 65501512

DATE 062476

CORRELATION COEFFICIENT = .0543

95 PERCENT CONFIDENCE INTERVAL = (-.1633, .2669)



GM FUEL ECONOMY STUDY

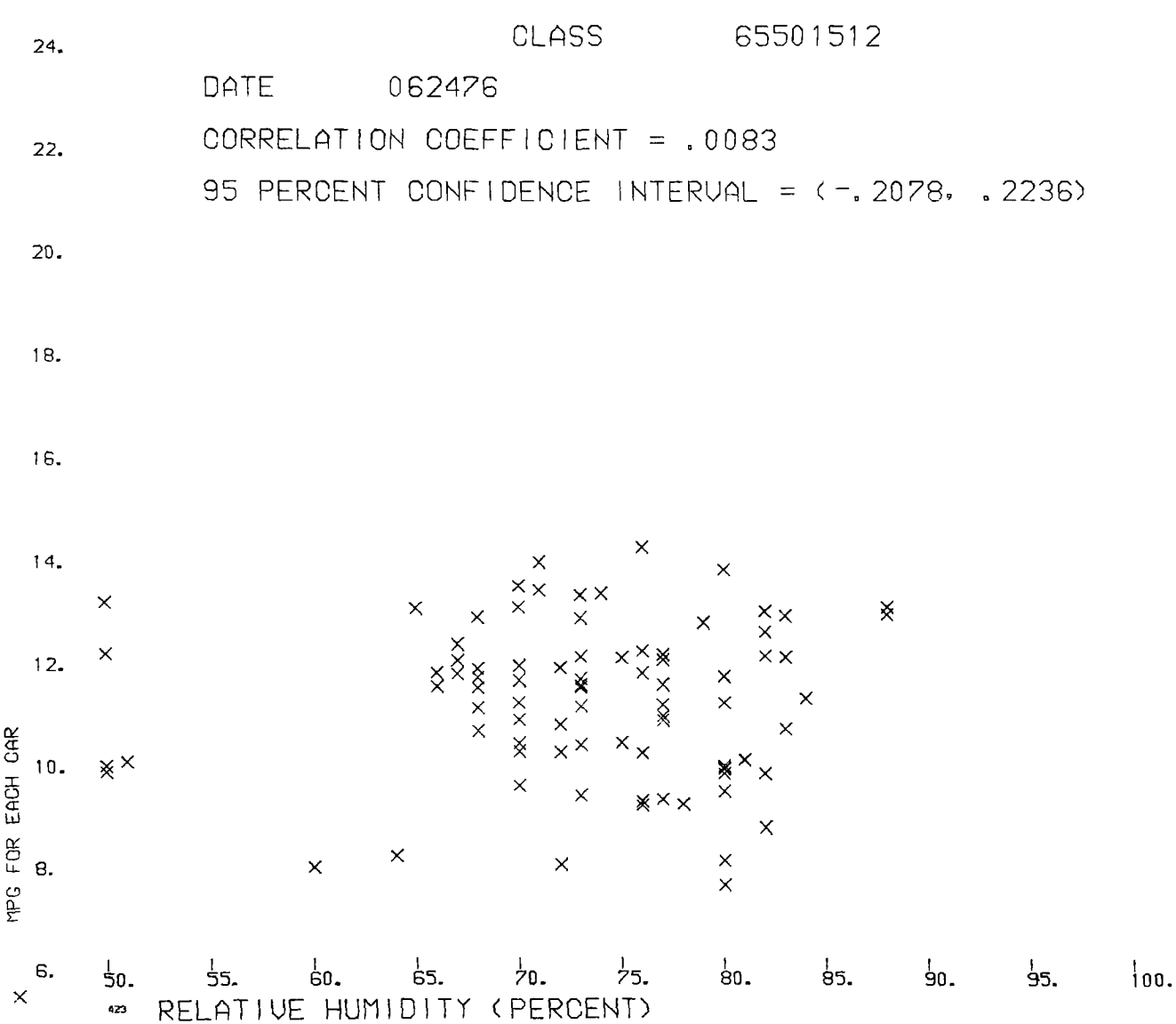
MPG VERSUS RELATIVE HUMIDITY

CLASS 65501512

DATE 062476

CORRELATION COEFFICIENT = .0083

95 PERCENT CONFIDENCE INTERVAL = (-.2078, .2236)



GM FUEL ECONOMY STUDY

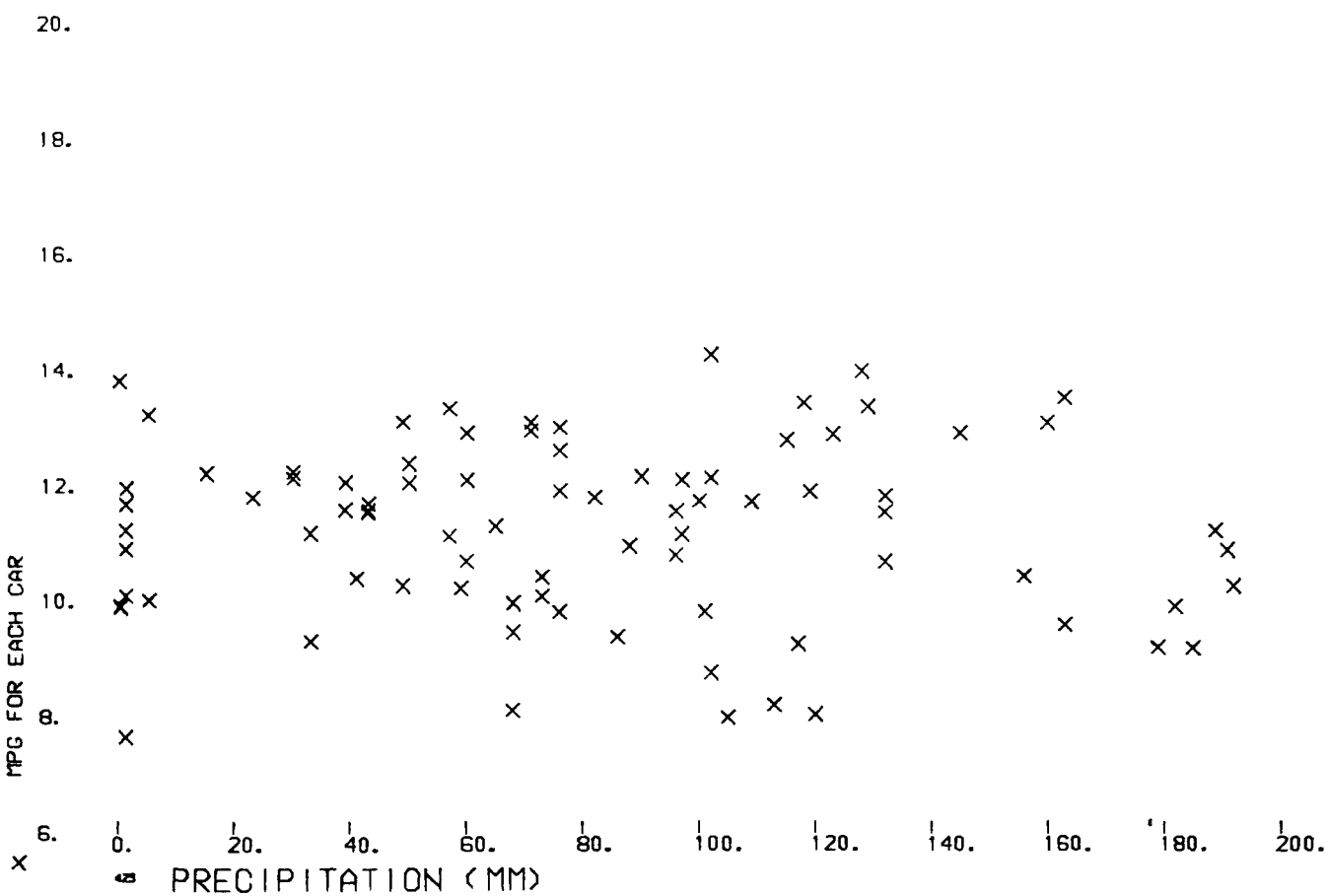
MPG VERSUS PRECIPITATION

CLASS 65501512

DATE 062476

CORRELATION COEFFICIENT =-.0477

95 PERCENT CONFIDENCE INTERVAL = (-.2607, .1697)



GM FUEL ECONOMY STUDY

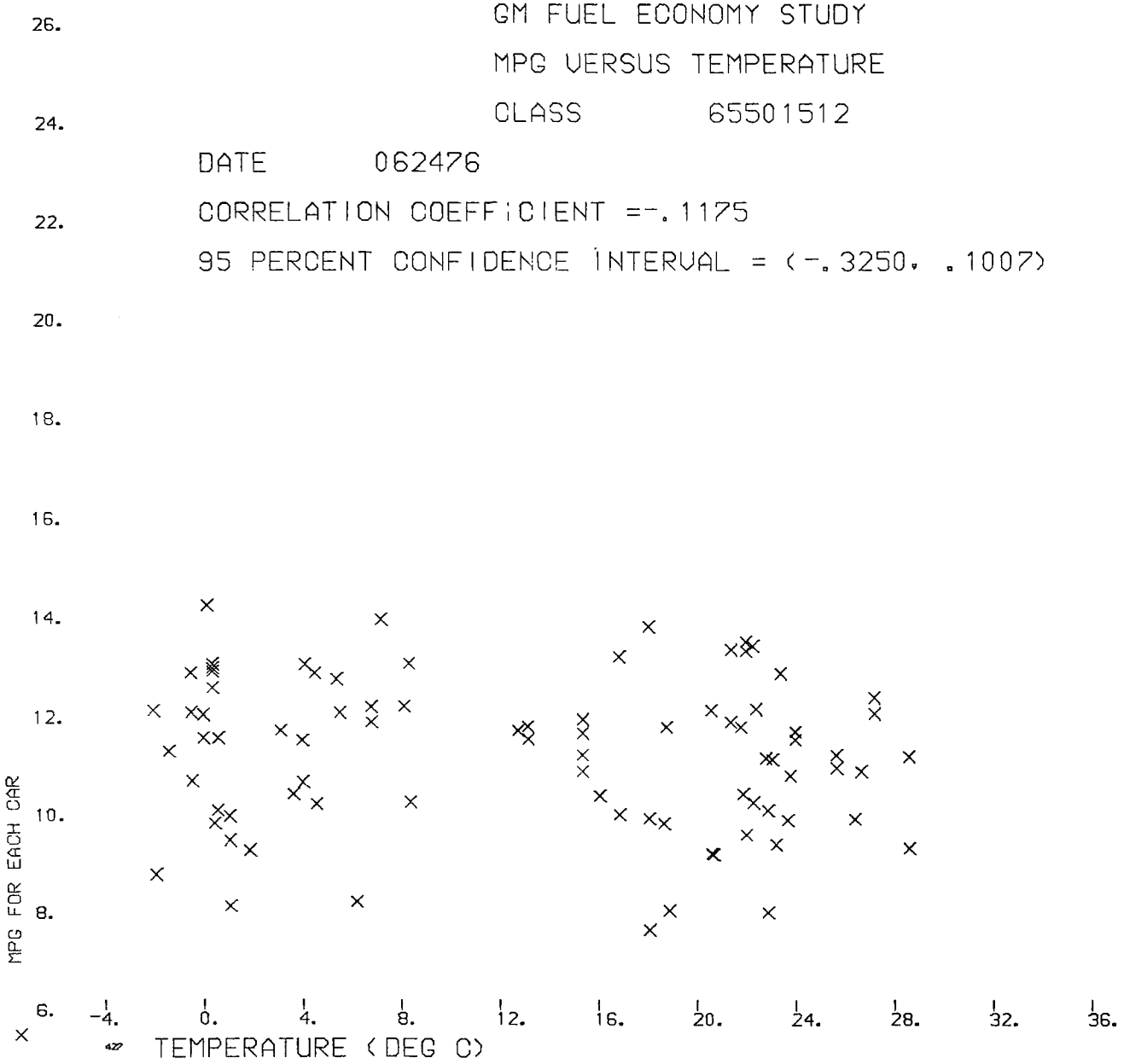
MPG VERSUS TEMPERATURE

CLASS 65501512

DATE 062476

CORRELATION COEFFICIENT =-.1175

95 PERCENT CONFIDENCE INTERVAL = (-.3250, .1007)



GM FUEL ECONOMY STUDY

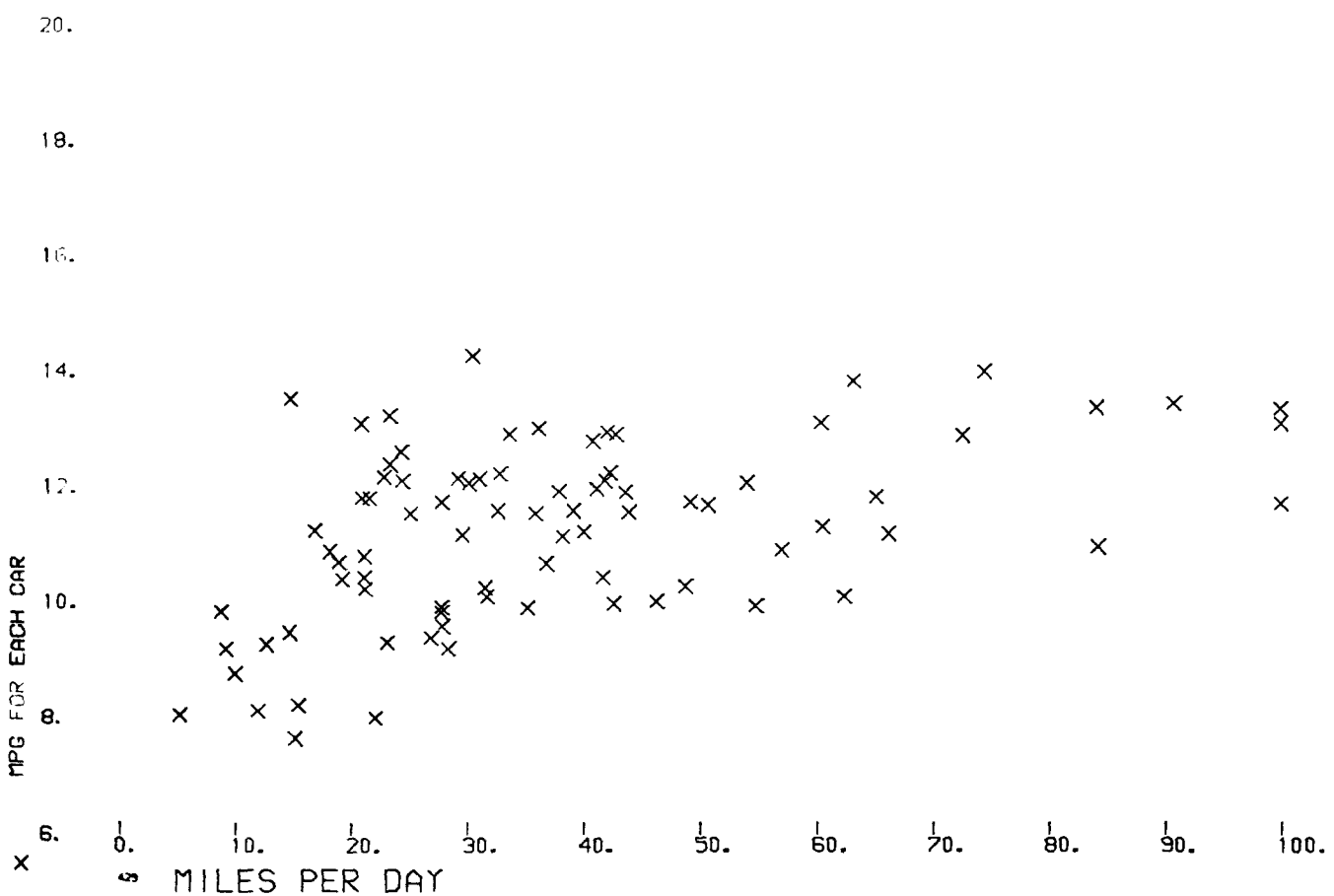
MPG VERSUS MILES PER DAY

CLASS 65501512

DATE 062476

CORRELATION COEFFICIENT = .2648

95 PERCENT CONFIDENCE INTERVAL = (.0521, .4545)



APPENDIX C

FORMULAS FOR COMPUTING FUEL ECONOMY AND TESTING FOR SIGNIFICANT DIFFERENCES IN FUEL ECONOMY

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FORMULAS FOR COMPUTING FUEL ECONOMY AND TESTING FOR SIGNIFICANT DIFFERENCES IN FUEL ECONOMY*

Harmonic Mean Fuel Economy

$$\text{HMFE} = \frac{1}{\overline{\text{mpg}}}$$

where

$$\overline{\text{mpg}} = \frac{1}{N} \sum_{i=1}^{N} \frac{1}{\text{mpg}_i}$$

N = number of cars per class

mpg_i = miles/gallon for ith car in a class

Test Statistic

It can be shown that the following quantity is distributed as a chi-square with α level of confidence and one degree of freedom:

$$G = \left(\frac{1}{\overline{\text{mpg}}_1} - \frac{1}{\overline{\text{mpg}}_2}\right)^2 \left(\frac{1}{\dfrac{S_1^2}{N_1 \times \overline{\text{mpg}}_1^{\,4}} + \dfrac{S_2^2}{N_2 \times \overline{\text{mpg}}_2^{\,4}}}\right)$$

*Extracted from Environmental Protection Agency Report No. EPA-460/2-74-001, Appendix III.[4]

where

$$S_J^2 = \frac{1}{N_J - 1} \sum_{i=1}^{N_J} \left(\frac{1}{mpg_i} - \overline{mpg_J} \right)^2 \quad , \quad J = 1, 2$$

N_J = number of cars in Jth Subclass

$\overline{mpg_J}$ = $\overline{mpg}$ for Jth Subclass

Sales Weighted Fuel Economy

$$SWMPG = \frac{1}{\sum_{i=1}^{M} \frac{\omega_i}{N_i} \sum_{j=1}^{N_i} \frac{1}{mpg_{ij}}}$$

where

mpg_{ij} = fuel economy for the jth car in carline Class i

N_i = number of cars in Class i

ω_i = total sales of Class i cars relative to either a division or the entire fleet

M = number of classes in a division or the entire fleet

SWMPG = sales weighted harmonic mean fuel economy for a division or the entire fleet

NOTES

1. 1976 Commercial Atlas and Marketing Guide, 107th Edition, Rand McNally and Company, Chicago, Illinois (1976).

2. The National Atlas of the United States of America, U.S. Department of Interior Geological Survey, Washington, D.C. (1970).

3. Climatological Data, National Summary, Vol. 25 (1974) and Vol. 26 (1975), National Oceanic and Atmospheric Administration, U.S. Department of Commerce.

4. M. E. Williams, J. T. White, L. A. Platte, and C. J. Domke, Automobile Exhaust Emission Surveillance — Analysis of the FY 72 Program, Appendix III, Environmental Protection Agency Report No. EPA-460/2-74-001 (February 1974).

GLOSSARY

AMPD	average miles per day
BBL	(number of carburetor barrels)
CID	(engine displacement)
EPA	Environmental Protection Agency
GM	General Motors (Corporation)
ID	identification
mpg	miles per gallon

TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1. REPORT NO.	2.	3. RECIPIENT'S ACCESSION NO.
4. TITLE AND SUBTITLE ANALYSIS OF GM FUEL ECONOMY SURVEYS		5. REPORT DATE 15 October 1976
		6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S) Ronald F. Janz		8. PERFORMING ORGANIZATION REPORT NO. ATR-77(7358-02)-1
9. PERFORMING ORGANIZATION NAME AND ADDRESS The Mobile Systems Group Environment and Energy Conservation Division The Aerospace Corporation El Segundo, California 90245		10. PROGRAM ELEMENT NO.
		11. CONTRACT/GRANT NO. 68-01-0417
12. SPONSORING AGENCY NAME AND ADDRESS EPA Office of Air and Waste Management Office of Mobile Source Air Pollution Control Emission Control Technology Division Ann Arbor, Michigan 48105		13. TYPE OF REPORT AND PERIOD COVERED Final
		14. SPONSORING AGENCY CODE
15. SUPPLEMENTARY NOTES		

16. ABSTRACT

Data obtained by General Motors Corporation in three fuel economy surveys of 1975 GM private passenger car owners are analyzed to determine seasonal, topographical, and geographical effects on the fuel economy of in-use vehicles. Data from the GM survey for 1532 cars formed the basis for this study. Additional seasonal, topographical, and geographical data associated with the locations of the owners were acquired from the literature and added to the GM data base. Carline classes are defined that contain cars with the following parameters in common: GM Division, Inertia Weight, CID-BBL, Transmission Type, and Axle Ratio. Within each carline class, harmonic mean fuel economies are computed for groups of cars with extreme ranges in each of eight seasonal, topographical, and geographical parameters. The dependence of fuel economy on these parameters is determined by comparing fuel economies between groups. Sales weighted harmonic mean fuel economies are computed for analogous groups at the division and fleet level.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Automobile Fuel Economy Seasonal, Topographical, and Geographical Effects on Fuel Economy GM Survey Data Correlations	In-Use Vehicle Fuel Economy GM Car Owner Data Harmonic Mean Fuel Economy Calculations	13F 21G

18. DISTRIBUTION STATEMENT Unlimited	19. SECURITY CLASS *(This Report)* Unclassified	21. NO. OF PAGES
	20. SECURITY CLASS *(This page)* Unclassified	22. PRICE

EPA Form 2220-1 (9-73)