The SAS System

The SURVEYSELECT Procedure

Selection Method	Simple Random Sampling

Input Data Set	DRUG_A
Random Number Seed	71990001
Sample Size	1000
Selection Probability	0.30931
Sampling Weight	3.233
Output Data Set	RESULTS

The SAS System

The CORR Procedure

1 With Variables:	Age
2 Variables:	Initial_Sugar After_Sugar

Simple Statistics

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label
Age	994	54.13380	18.95378	53809	8.00000	94.00000	B
Initial_Sugar	1000	115.31111	76.62323	115311	38.95584	749.74323	F
After_Sugar	992	98.77699	88.06497	97987	23.26655	1737	B

Pearson Correlation Coefficients
Prob > |r| under H0: Rho=0
Number of Observations

	Initial_Sugar	After_Sugar
Age	0.26212	-0.04606
B	<.0001	0.1484
	994	986

Age v. After_Sugar
After_Sugar
1500
1000
500
0
20
40
60
80
100
Age
Regression

Age v. Initial_Sugar
Initial_Sugar
800
600
400
200
0
20
40
60
80
100
Age
Regression

Initial_Sugar v. State

The GLM Procedure

Class Level Information		
Class	Levels	Values
State	2	AZ CA

Number of Observations Read	1000
Number of Observations Used	1000

Initial_Sugar v. State

The GLM Procedure

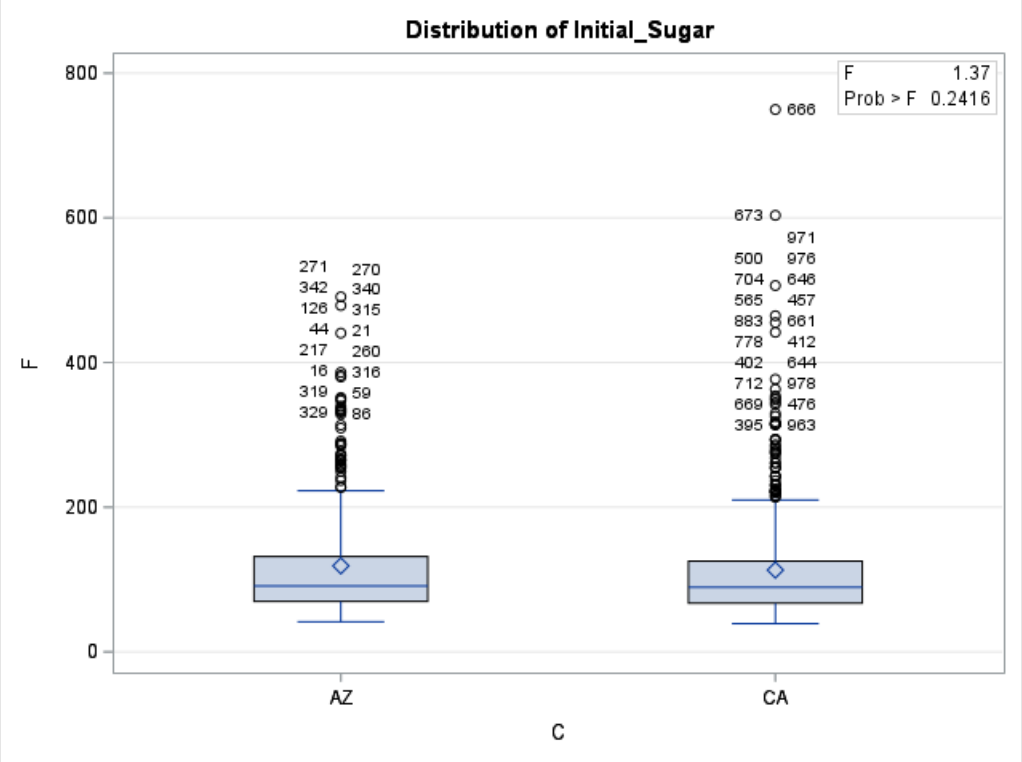
Dependent Variable: Initial_Sugar F

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	8056.655	8056.655	1.37	0.2416
Error	998	5857191.622	5868.929		
Corrected Total	999	5865248.277			

R-Square	Coeff Var	Root MSE	Initial_Sugar Mean
0.001374	66.43674	76.60894	115.3111

Source	DF	Type I SS	Mean Square	F Value	Pr > F
State	1	8056.655346	8056.655346	1.37	0.2416

Source	DF	Type III SS	Mean Square	F Value	Pr > F
State	1	8056.655346	8056.655346	1.37	0.2416



After_Sugar based on Total Charge by State

The GLM Procedure

Class Level Information		
Class	**Levels**	**Values**
State	2	AZ CA
Total_Charge	938	10011 10070 10095 10240 10252 10282 10285 10324 10326 10328 103539 10355 10358 10361 10368 10372 10436 10476 10503 10511 10535 10542 10729 10754 10792 10815 10816 10820 10822 10852 108576 10859 10871 108711 10874 10912 10928 10933 10945 10951 11025 11039 11045 11057 11066 110678 110783 11087 11135 11169 11189 11212 11222 112425 11249 11260 11314 113218 11329 11344 11353 11362 11390 11394 11461 114904 11521 115297 11537 11559 11561 11569 11590 11605 11625 11680 11692 11706 117076 11751 11771 11836 11988 12002 12025 12029 12042 12053 12106 12109 12116 12136 121576 12174 12181 12195 12234 12241 12275 12287 12293 12360 12376 12392 12404 12445 12464 124653 12480 12541 12565 12588 12597 12627 12698 12788 12823 12837 12840 12847 12877 12885 12900 12909 12910 12913 129285 12997 13001 130049 13006 13007 13009 13089 13093 13096 13191 13252 13361 13428 13453 13459 13551 13661 13785 13816 13821 13833 13845 13870 13876 138879 13891 13892 13909 13925 13954 14004 14021 141442 14148 141533 141669 14174 14215 14228 14245 14257 14263 14277 14287 14388 14396 14407 14437 14490 14515 14531 14541 146695 14708 14721 14746 14788 14811 14835 14844 14967 14970 14998 15008 15027 15038 15056 15153 151669 15244 15260 15261 15355 15371 15387 15388 15399 15442 15463 15486 15494 15495 1551 15537 15538 15540 1555 15565 15627 15779 15822 15845 15910 15938 15980 16000 16024 16074 16174 16218 16300 16310 16352 16368 16392 16394 16466 16471 16506 16508 16517 16521 165290 1657 16594 16619 16621 16633 16655 16667 16742 16768 16776 16785 16834 16869 16930 17020 17132 1717 17180 17191 17212 17215 17250 17299 17366 17423 17467 17499 17520 17547 17552 17667 17698 17709 17719 17740 17803 17809 17823 17868 17921 17936 17941 17977 17996 18064 18073 18094 18235 1825 18257 18290 18377 18413 18429 18481 1858 18637 1870 18813 18832 18851 189050 18919 18929 18976 19009 190645 19079 19111 19114 19171 19356 1945 19458 19473 19500 19510 19592 19595 19624 19666 19750 19752 19815 19929 20033 20060 20086 20091 20177 2020 20269 20295 20342 20355 20520 2056 20578 20587 20590 20594 20598 20620 20624 20671 20697 20721 20764 20780 20846 20862 20933 21134 21194 21197 21203 21238 21304 21310 21350 21397 21445 21476 21558 21659 21689 21738 21761 21980 22028 22076 221121 22194 22199 22206 22287 22331 22340 22420 22570 2259 22710 22721 22724 22825 22886 22898 22930 22983 22985 2301 23115 23134 23227 2326 23447 23475 23509 23611 23633 2371 23728 23863 23880 23946 24050 24080 24142 24183 24247 24367 24425 2450 24511 24604 24745 2475 24753 24762 2485 24863 24864 24936 24981 2499 24998 2519 25224 25227 25419 25425 2547 25482 25531 25574 25638 2564 25732 25975 25993 26123 26176 2625 26268 26291 26459 26500 26553 26560 26637 26675 26704 26830 26840 26962 27032 27118 2721 27353 27367 27431 27460 27474 27488 27863 2797 28130 28212 28277 28293 28348 28360 28444 28546 28616 28681 28685 28705 28773 2879 28859 2888 28893 28898 29155 29169 29190 29383 2943 29509 29668 29777 29846 29965 2999 30177 30501 30592 30625 30720 30722 30746 30747 30783 310073 3104 31079 31099 3121 31219 31420 31481 3165 31894 31920 31923 31947 32001 3207 3209 3224 32260 32352 3247 32554 32564 32717 32793 3299 33028 3310 33118 3316 33788 33795 3407 34100 3433 34564 34569 34743 34863 34897 34903 35061 35094 35098 35593 35657 35826 35903 36057 3609 3614 36192 36239 36429 3647 36530 3688 36901 36954 37028 37046 3712 37863 3815 3840 38411 38599 38752 38956 3923 39281 39322 3937 39451 39686 3973 39753 39768 3988 40263 40355 40391 40648 4072 40786 4094 4113 41215 4128 41628 4163 41810 41860 4192 4193 4197 419956 41998 42032 4211 42205 42258 4228 4230 42577 42583 42669 42774 4309 43194 4320 4338 4373 4386 43899 43946 44091 44099 44104 44336 45084 4521 4526 45385 4543 4556 4564 45783 4583 4625 4627 46465 46705 4682 46852 4713 4719 47289 47483 4772 4811 4816 4848 4863 4908 49348 49381 49471 50047 50094 5010 50107 5023 5025 5036 5045 50611 5069 5076 5095 511 5125 51359 51424 51541 51709 5198 5206 5240 52501 5252 5261 5265 52858 5296 5313 5323 53350 5340 5348 5354 53612 5371 5385 53879 53912 5393 54202 54266 5437 54386 5440 5449 5456 5520 5548 55647 55743 55874 5594 56020 56086 5641 56695 56995 5702 57055 5719 5762 5789 5817 5838 58425 5868 5879 5892 5910 5911 5918 59427 5945 59566 6001 6029 6032 6042 60491 60555 60895 6091 60994 6107 61317 6140 61602 61666 6185 6198 62008 6211 62318 6271 6344 63567 63852 6386 6388 6390 6396 6415 64312 6439 64585 6461 6484 6487 65233 6539 6559 65644 65728 65814 65956 6603 6610 6622 67117 67173 67176 6719 6725 67537 67652 6791 6834 6853 69050 6950 69522 6955 6959 69768 6996 7021 70225 7023 7028 7064 7065 7068 7069 7080 71099 7112 71199 7147 71877 7213 7222 72352 7258 7289 7303 7304 73082 7325 7350 7378 7383 7385 73880 7437 7439 74456 7471 7482 7485 74891 7506 7512 7516 75453 75611 7578 7584 75963 7614 7619 7639 7671 7672 7680 7683 7688 7777 7782 7923 7926 7937 7942 7950 79587 8004 8054 8059 8070 8140 8165 8198 8201 8250 82699 8282 82992 83231 8339 8342 8385 8392 8400 8408 8430 8445 8508 8527 8602 8634 8670 8671 8674 8680 8682 86891 8786 8822 8843 8862 89078 8932 8943 8948 8950 89568 8973 9021 9066 9134 9143 9187 9195 9196 9199 9200 9202 9205 9207 92212 9238 9258 92581 9288 9296 9309 9310 9332 9375 9384 9441 9443 9451 9471 9523 9541 9585 9608 96154 9639 96424 9668 9697 9719 9735 9742 9756 9758 97759 9780 9805 9847 9897 9935 995 9950 9955 C

Number of Observations Read	1000
Number of Observations Used	935

After_Sugar based on Total Charge by State

The GLM Procedure

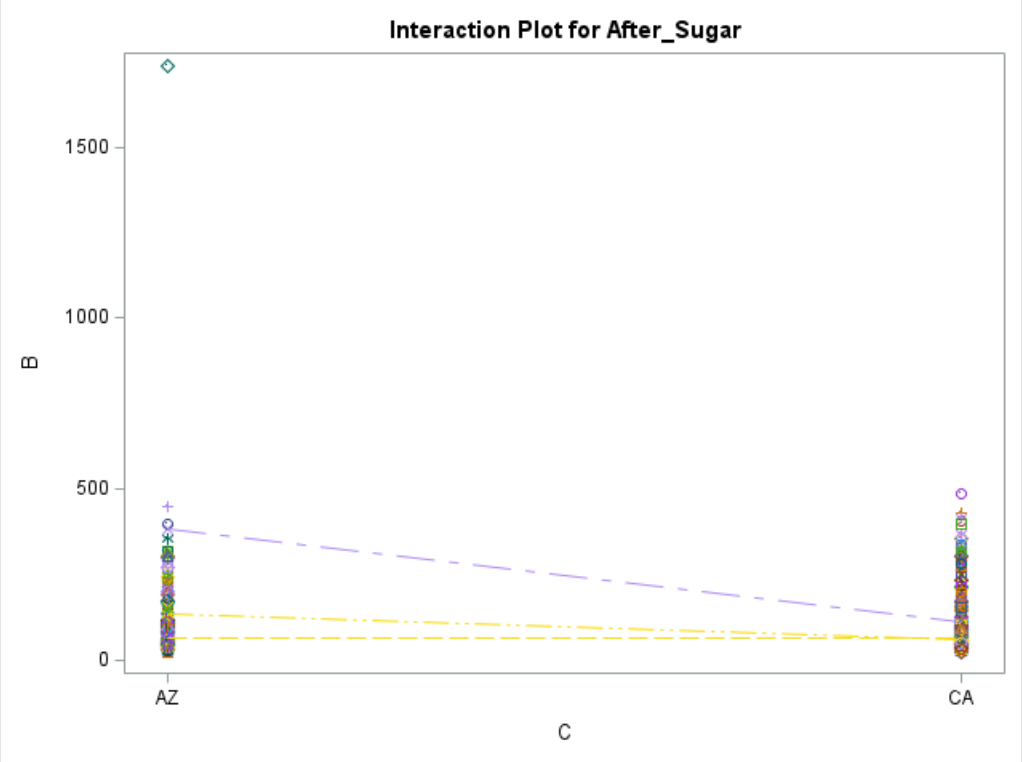
Dependent Variable: After_Sugar B

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	932	7004997.051	7516.091	28.12	0.0349
Error	2	534.495	267.247		
Corrected Total	934	7005531.546			

R-Square	Coeff Var	Root MSE	After_Sugar Mean
0.999924	16.86405	16.34771	96.93819

Source	DF	Type I SS	Mean Square	F Value	Pr > F
State*Total_Charge	932	7004997.051	7516.091	28.12	0.0349

Source	DF	Type III SS	Mean Square	F Value	Pr > F
State*Total_Charge	932	7004997.051	7516.091	28.12	0.0349

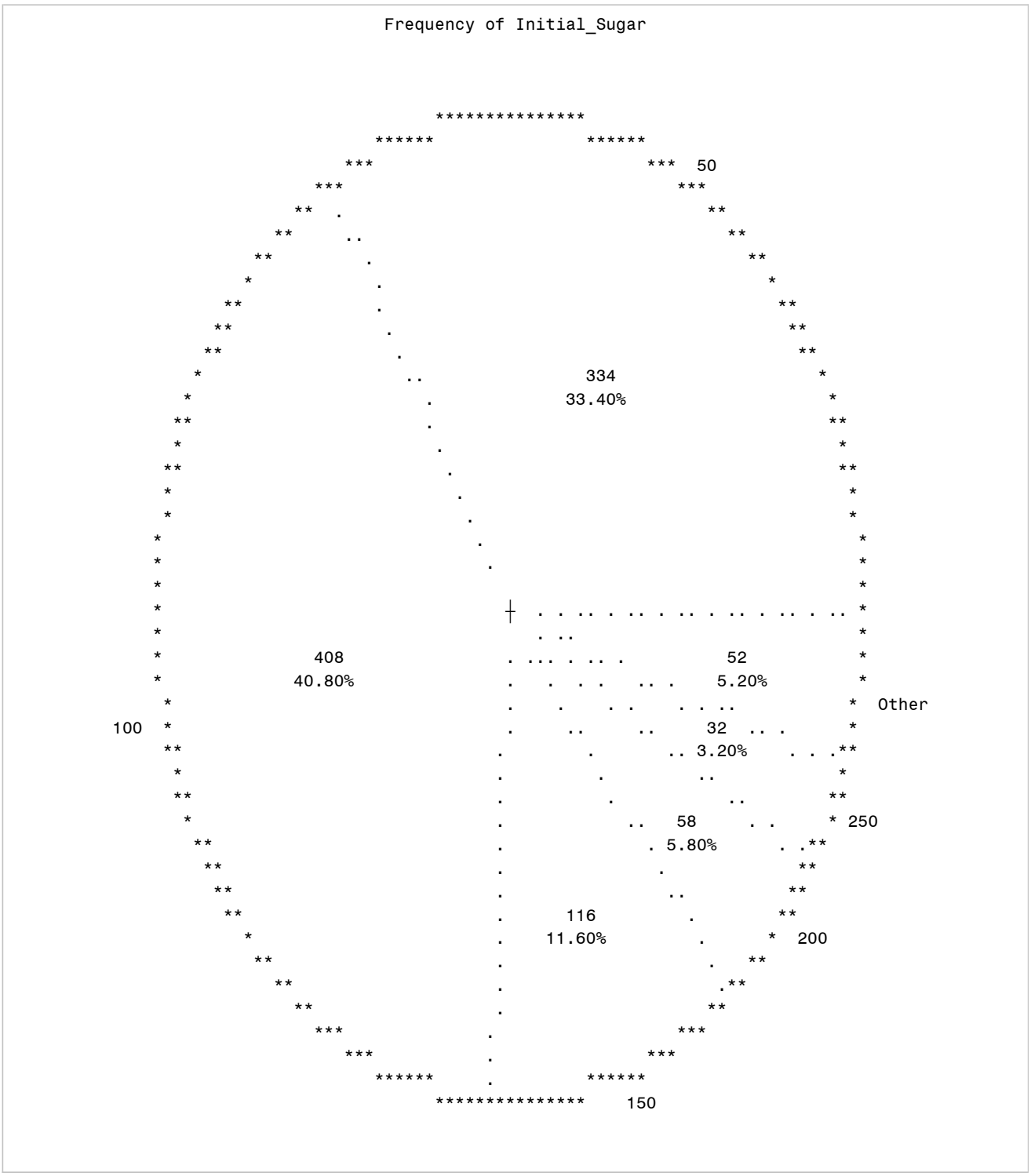
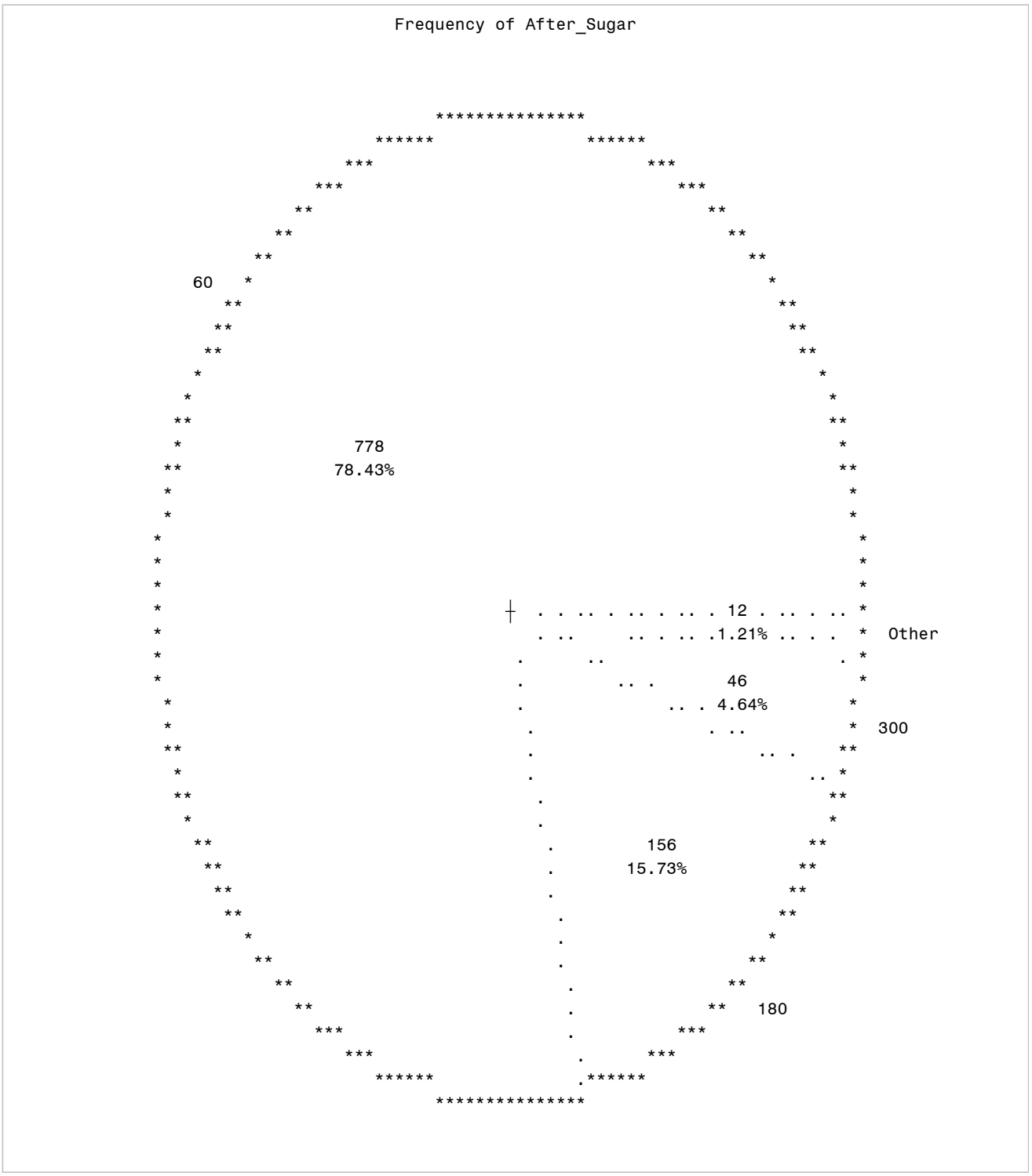


After_Sugar based on Total Charge by State

The MEANS Procedure

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
Initial_Sugar	F	1000	115.3111076	76.6232301	38.9558400	749.7432300
After_Sugar	B	992	98.7769856	88.0649710	23.2665500	1736.58

After_Sugar based on Total Charge by State



After_Sugar based on Total Charge by State