The SAS System

The UNIVARIATE Procedure
Variable: Year

Moments			
N	125	Sum Weights	125
Mean	2014.472	Sum Observations	251809
Std Deviation	3.29118079	Variance	10.831871
Skewness	0.02159914	Kurtosis	-1.2383932
Uncorrected SS	507263523	Corrected SS	1343.152
Coeff Variation	0.16337684	Std Error Mean	0.29437216

Basic Statistical Measures			
Location		Variability	
Mean	2014.472	Std Deviation	3.29118
Median	2014.000	Variance	10.83187
Mode	2010.000	Range	11.00000
		Interquartile Range	5.00000

Note: The mode displayed is the smallest of 6 modes with a count of 12.

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	6843.283	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2020
99%	2020
95%	2019
90%	2019
75% Q3	2017
50% Median	2014
25% Q1	2012
10%	2010
5%	2010
1%	2009
0% Min	2009

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2009	125	2020	2
2009	124	2020	3
2009	123	2020	4
2009	122	2020	5
2009	121	2020	6

Distribution and Probability Plot for Year
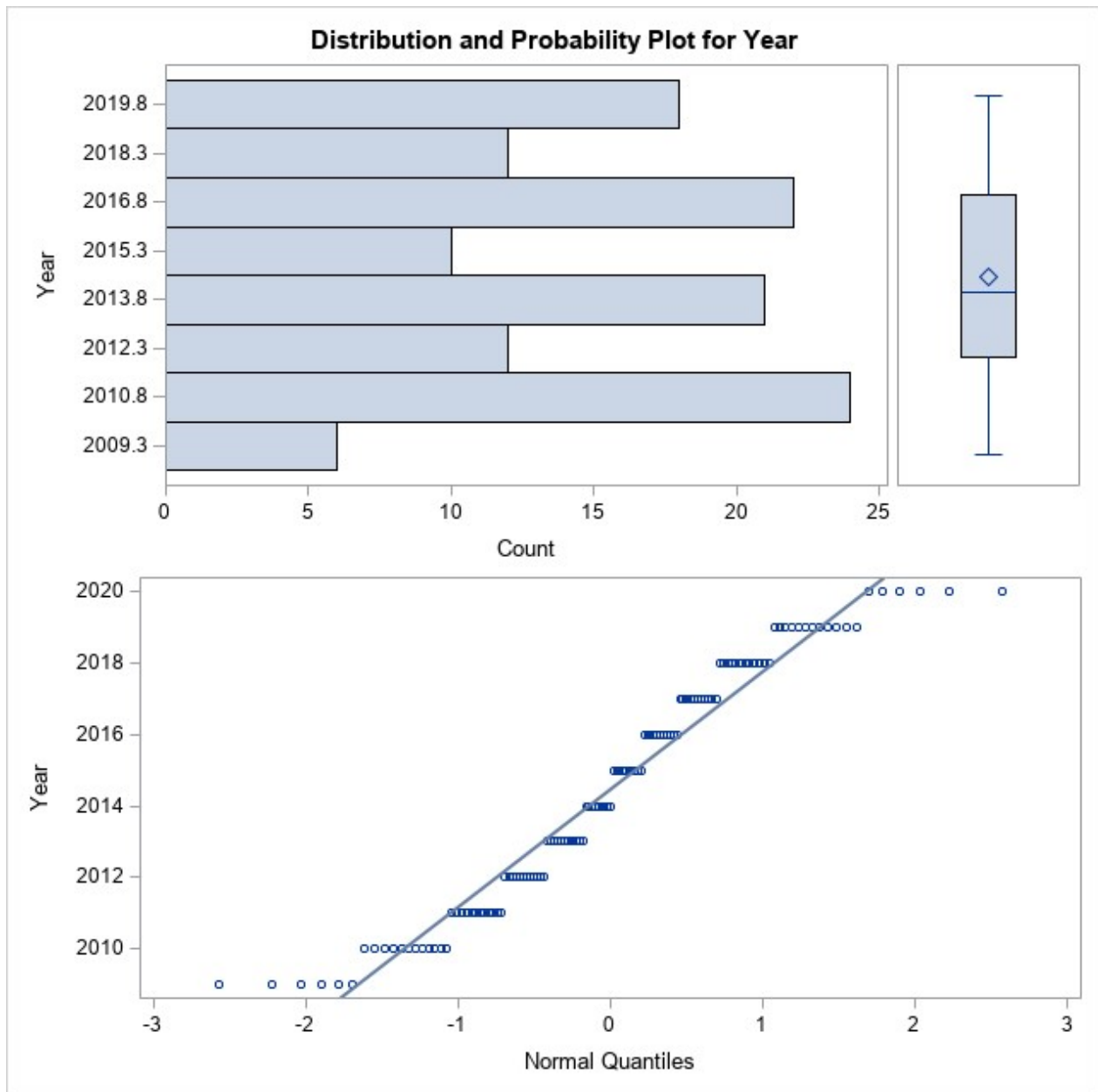
The SAS System

The UNIVARIATE Procedure
Variable: Month

Missing Values			
Missing Value	**Count**	**Percent Of**	
		All Obs	**Missing Obs**
.	125	100.00	100.00

The SAS System

The UNIVARIATE Procedure
Variable: Gasoline_Gallons

Moments			
N	125	Sum Weights	125
Mean	377132351	Sum Observations	4.71415E10
Std Deviation	35568074.5	Variance	1.26509E15
Skewness	-0.4824591	Kurtosis	2.66703642
Uncorrected SS	1.79355E19	Corrected SS	1.56871E17
Coeff Variation	9.43119158	Std Error Mean	3181305.3

Basic Statistical Measures			
Location		**Variability**	
Mean	3.7713E8	Std Deviation	35568075
Median	3.7228E8	Variance	1.26509E15
Mode	.	Range	258459329
		Interquartile Range	44255731

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	118.5464	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	476873743
99%	459549521
95%	428994880
90%	424440611
75% Q3	403095919
50% Median	372275289
25% Q1	358840188
10%	334937585
5%	324726066
1%	285382077
0% Min	218414414

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
218414414	2	437802925	24
285382077	1	442614765	10
310755436	69	445146895	11
316704105	81	459549521	13
317140811	61	476873743	32

Distribution and Probability Plot for Gasoline_Gallons
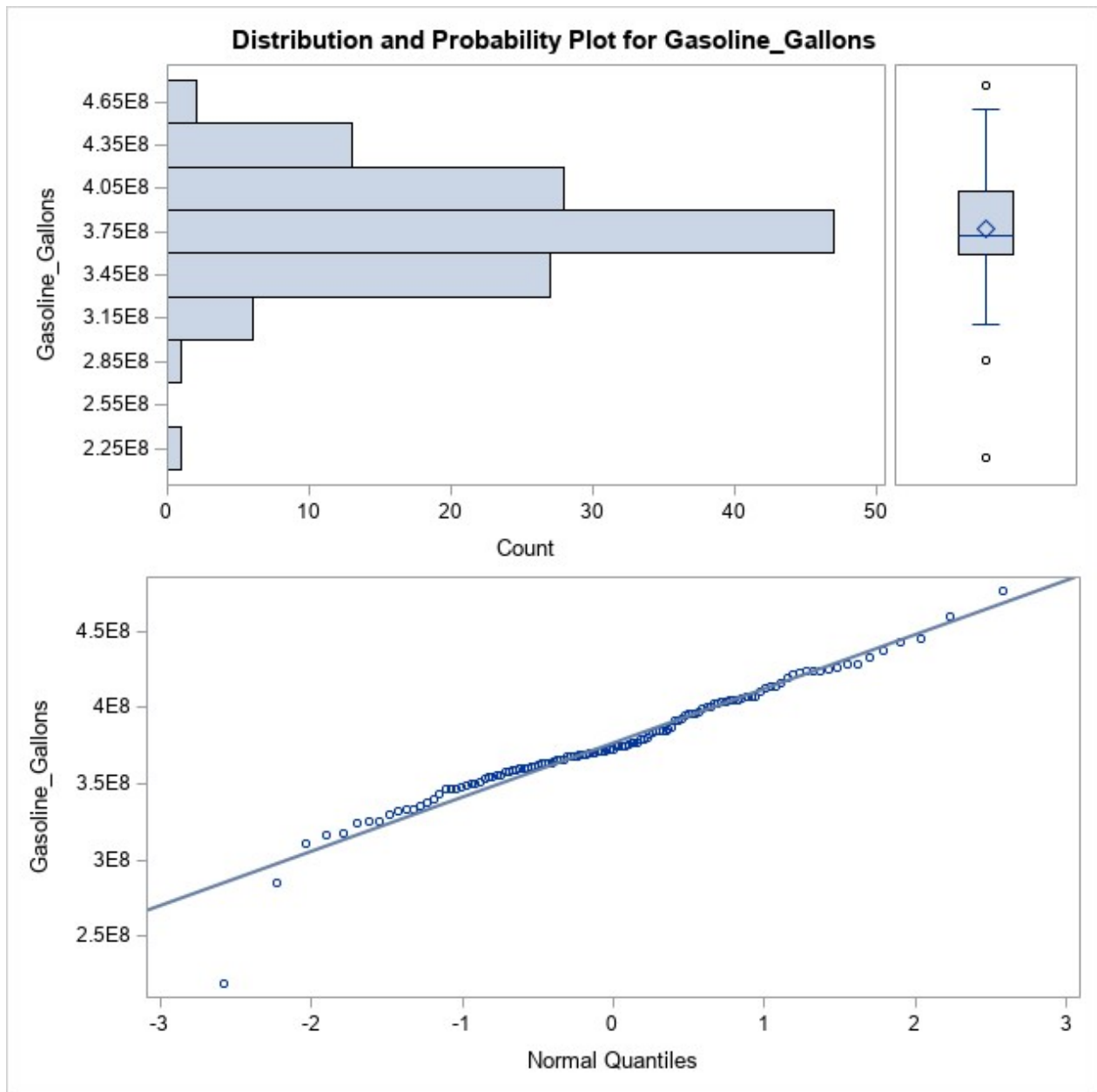
The SAS System

The UNIVARIATE Procedure
Variable: Diesel_Gallons

Moments			
N	125	Sum Weights	125
Mean	79916571.1	Sum Observations	9989571388
Std Deviation	9538395.55	Variance	9.0981E13
Skewness	0.74720794	Kurtosis	0.35884312
Uncorrected SS	8.09614E17	Corrected SS	1.12816E16
Coeff Variation	11.9354415	Std Error Mean	853140.034

Basic Statistical Measures			
Location		Variability	
Mean	79916571	Std Deviation	9538396
Median	78017483	Variance	9.0981E13
Mode	.	Range	46698332
		Interquartile Range	13035726

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	93.67345	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	111638305
99%	109664141
95%	94733220
90%	93212598
75% Q3	86019021
50% Median	78017483
25% Q1	72983295
10%	68799031
5%	67223519
1%	65957363
0% Min	64939973

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
64939973	105	99020010	18
65957363	81	99869615	8
66126994	117	100142145	13
66299822	69	109664141	20
66344340	118	111638305	32

Distribution and Probability Plot for Diesel_Gallons
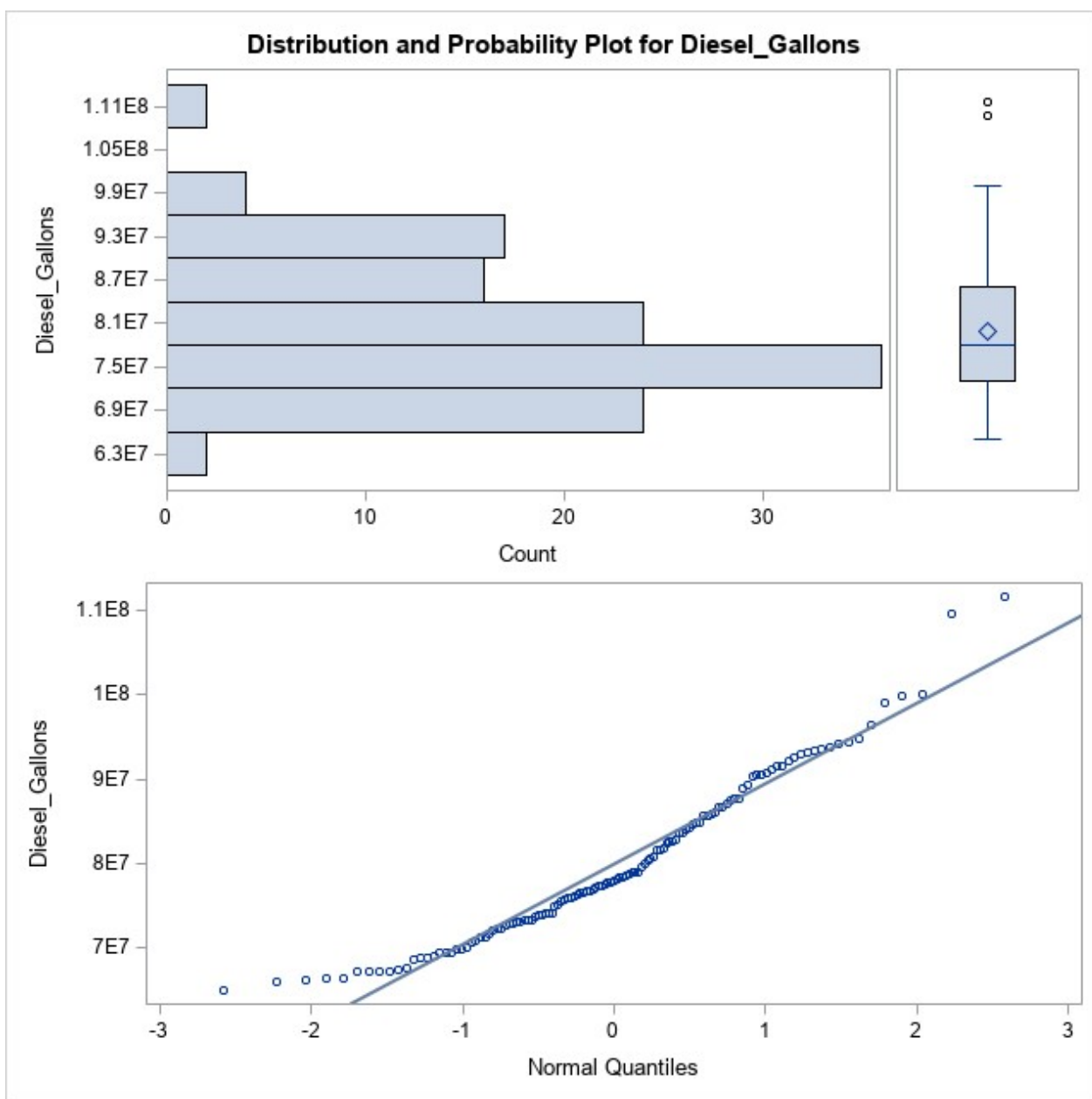
The SAS System

The UNIVARIATE Procedure
Variable: Kerosene_Gallons

Moments			
N	125	Sum Weights	125
Mean	299907.208	Sum Observations	37488401
Std Deviation	372305.348	Variance	1.38611E11
Skewness	1.77125875	Kurtosis	3.32878716
Uncorrected SS	2.84308E13	Corrected SS	1.71878E13
Coeff Variation	124.14018	Std Error Mean	33300.0027

Basic Statistical Measures			
Location		Variability	
Mean	299907.2	Std Deviation	372305
Median	122697.0	Variance	1.38611E11
Mode	.	Range	1722856
		Interquartile Range	485463

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	9.006222	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1725070
99%	1652223
95%	1045429
90%	735724
75% Q3	514063
50% Median	122697
25% Q1	28600
10%	7170
5%	4603
1%	2525
0% Min	2214

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
2214	23	1295248	29
2525	36	1385647	119
3918	87	1587220	117
4247	11	1652223	107
4408	35	1725070	118

Distribution and Probability Plot for Kerosene_Gallons
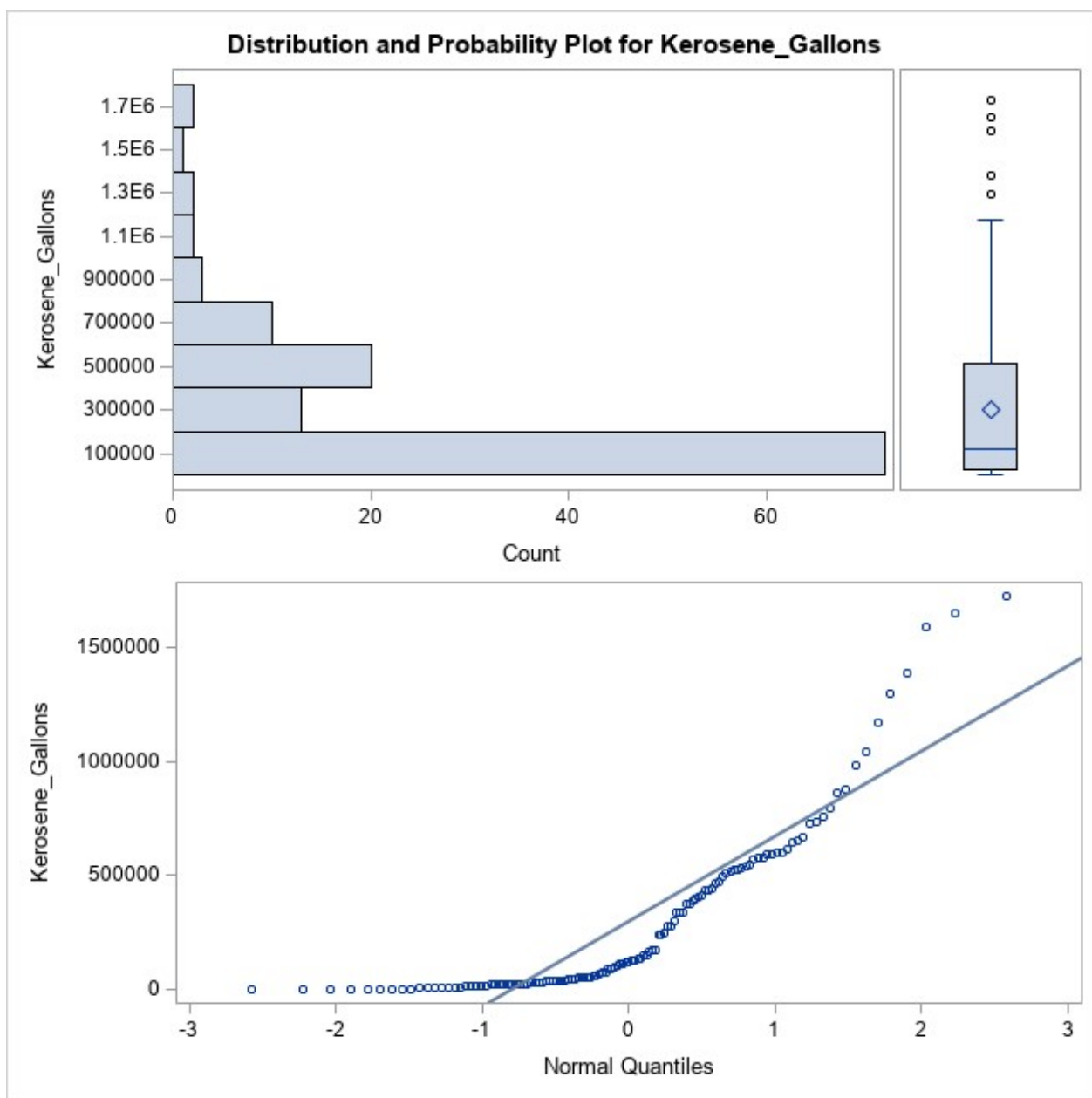
The SAS System

The UNIVARIATE Procedure
Variable: Alternative_Fuels_Gallons

Moments			
N	125	Sum Weights	125
Mean	481112.296	Sum Observations	60139037
Std Deviation	517459.623	Variance	2.67764E11
Skewness	1.61241841	Kurtosis	2.04516182
Uncorrected SS	6.21364E13	Corrected SS	3.32028E13
Coeff Variation	107.554853	Std Error Mean	46282.9957

Basic Statistical Measures			
Location		Variability	
Mean	481112.3	Std Deviation	517460
Median	262000.0	Variance	2.67764E11
Mode	.	Range	2319782
		Interquartile Range	531215

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	10.39501	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2372859
99%	2135093
95%	1582049
90%	1259501
75% Q3	649993
50% Median	262000
25% Q1	118778
10%	77182
5%	67697
1%	53895
0% Min	53077

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
53077	111	1675466	17
53895	100	1865032	2
58247	114	2119678	14
63296	91	2135093	8
65936	122	2372859	26

Distribution and Probability Plot for Alternative_Fuels_Gallons
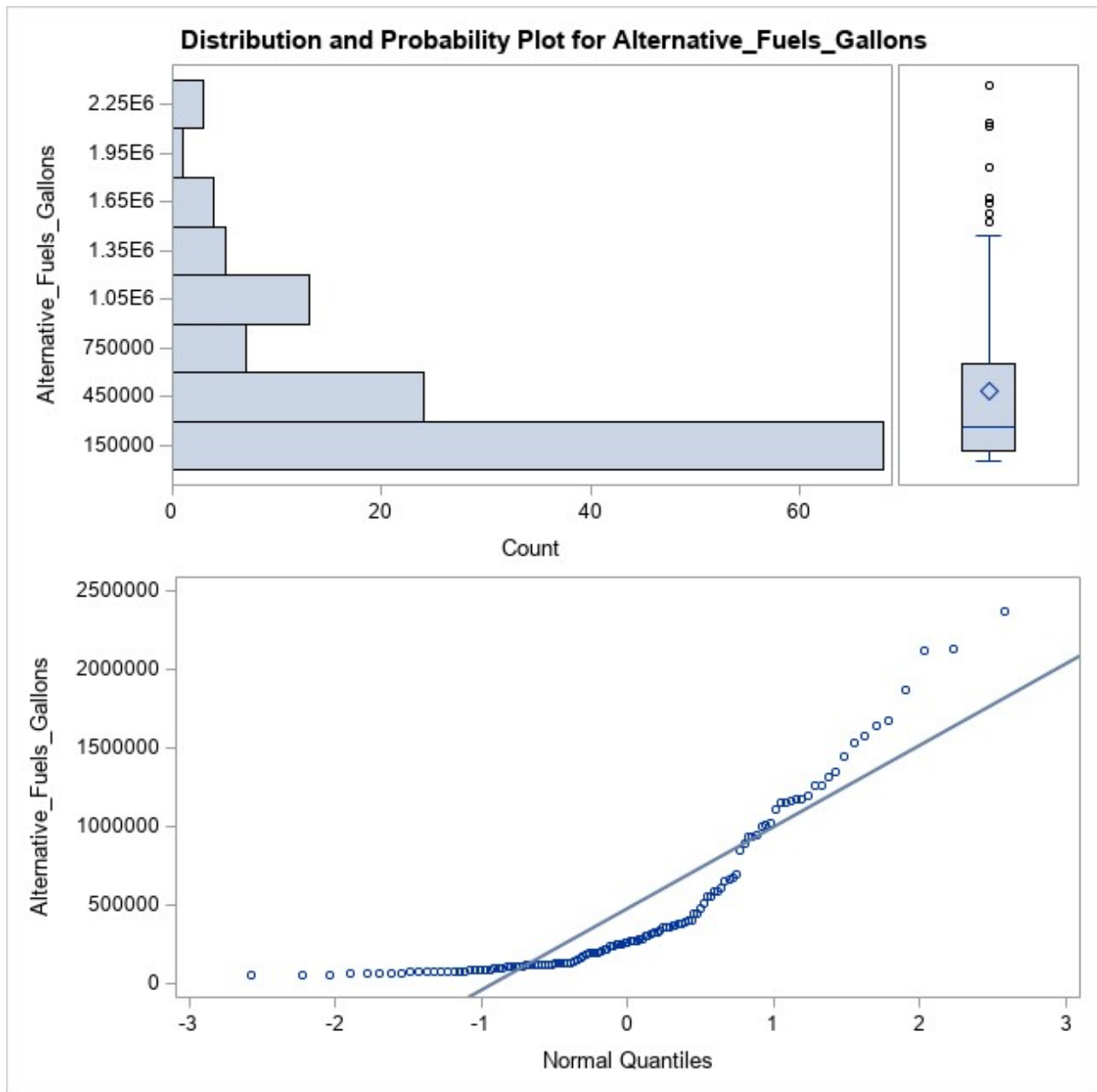
The SAS System

The UNIVARIATE Procedure
Variable: Highway_Fuel_Use

Moments			
N	125	Sum Weights	125
Mean	6865242.66	Sum Observations	858155332
Std Deviation	4402044.81	Variance	1.9378E13
Skewness	0.51750543	Kurtosis	-0.8738569
Uncorrected SS	8.29432E15	Corrected SS	2.40287E15
Coeff Variation	64.1207461	Std Error Mean	393730.857

Basic Statistical Measures			
Location		Variability	
Mean	6865243	Std Deviation	4402045
Median	5770567	Variance	1.9378E13
Mode	.	Range	17837464
		Interquartile Range	7022013

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	17.43638	Pr > |t|	<.0001
Sign	M	60.5	Pr >= |M|	<.0001
Signed Rank	S	3930.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	16880944
99%	16399083
95%	14583852
90%	13520277
75% Q3	10479781
50% Median	5770567
25% Q1	3457768
10%	2091757
5%	1474176
1%	-425660
0% Min	-956520

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
-956520	48	14952364	34
-425660	27	15819903	10
424317	68	16228567	31
579565	79	16399083	25
759618	49	16880944	13

Distribution and Probability Plot for Highway_Fuel_Use
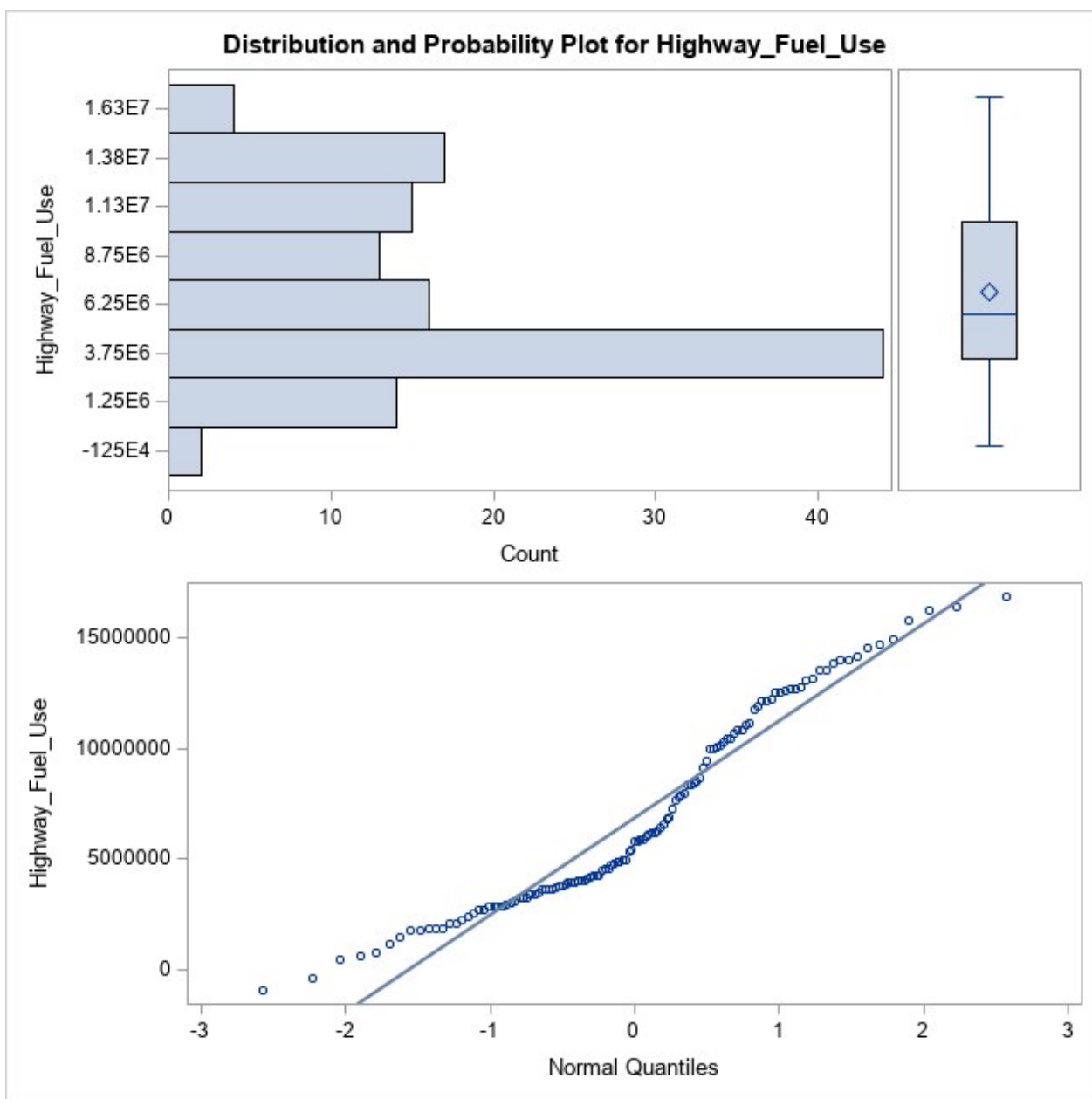
The SAS System

The UNIVARIATE Procedure
Variable: Total_Gallons_ST_Road_Tax

Moments			
N	125	Sum Weights	125
Mean	464695184	Sum Observations	5.80869E10
Std Deviation	43700167.8	Variance	1.9097E15
Skewness	-0.0431248	Kurtosis	1.47516257
Uncorrected SS	2.72295E19	Corrected SS	2.36803E17
Coeff Variation	9.40405006	Std Error Mean	3908661.83

Basic Statistical Measures			
Location		Variability	
Mean	4.647E8	Std Deviation	43700168
Median	4.5845E8	Variance	1.9097E15
Mode	.	Range	299151080
		Interquartile Range	53204776

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	118.8886	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	593016240
99%	576927700
95%	533126893
90%	526524020
75% Q3	494175229
50% Median	458447807
25% Q1	440970453
10%	409686139
5%	399559581
1%	369403644
0% Min	293865160

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
293865160	2	543592925	11
369403644	1	547146237	20
388270576	69	553557188	10
393208743	81	576927700	13
395520242	117	593016240	32

Distribution and Probability Plot for Total_Gallons_ST_Road_Tax
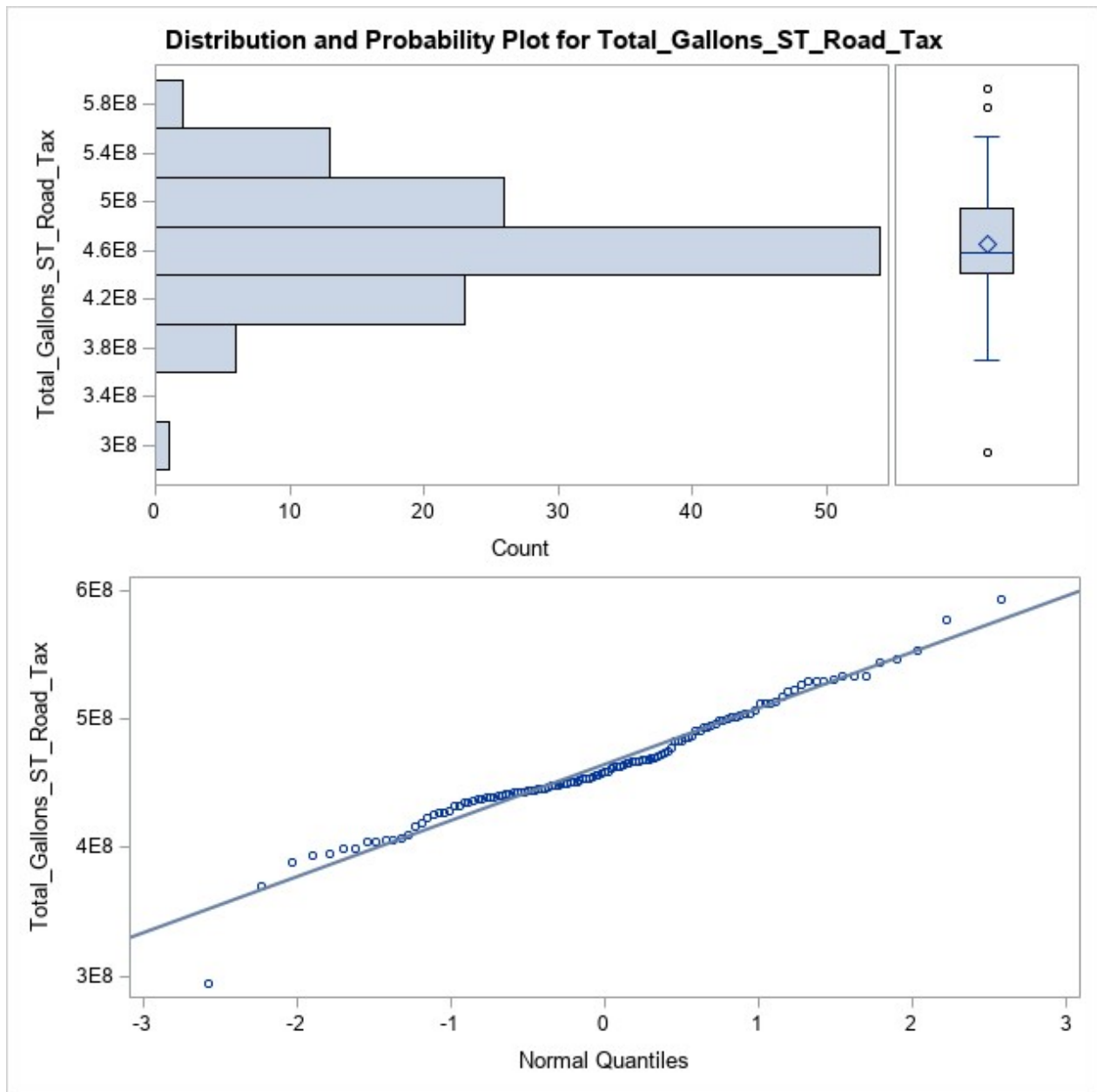
The SAS System

The UNIVARIATE Procedure
Variable: Registration_Fee

Moments			
N	125	Sum Weights	125
Mean	375950.759	Sum Observations	46993844.8
Std Deviation	115446.364	Variance	1.33279E10
Skewness	0.43257439	Kurtosis	0.09485482
Uncorrected SS	1.932E13	Corrected SS	1.65266E12
Coeff Variation	30.7078418	Std Error Mean	10325.8367

Basic Statistical Measures			
Location		Variability	
Mean	375950.8	Std Deviation	115446
Median	325341.0	Variance	1.33279E10
Mode	.	Range	714008
		Interquartile Range	192236

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	36.40875	Pr > |t|	<.0001
Sign	M	62	Pr >= |M|	<.0001
Signed Rank	S	3875	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	714008
99%	635990
95%	578267
90%	522205
75% Q3	478192
50% Median	325341
25% Q1	285956
10%	267092
5%	256734
1%	228614
0% Min	0

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
0	24	587234	29
228614	121	608121	39
238286	84	622863	13
245890	87	635990	40
253340	73	714008	14

Distribution and Probability Plot for Registration_Fee
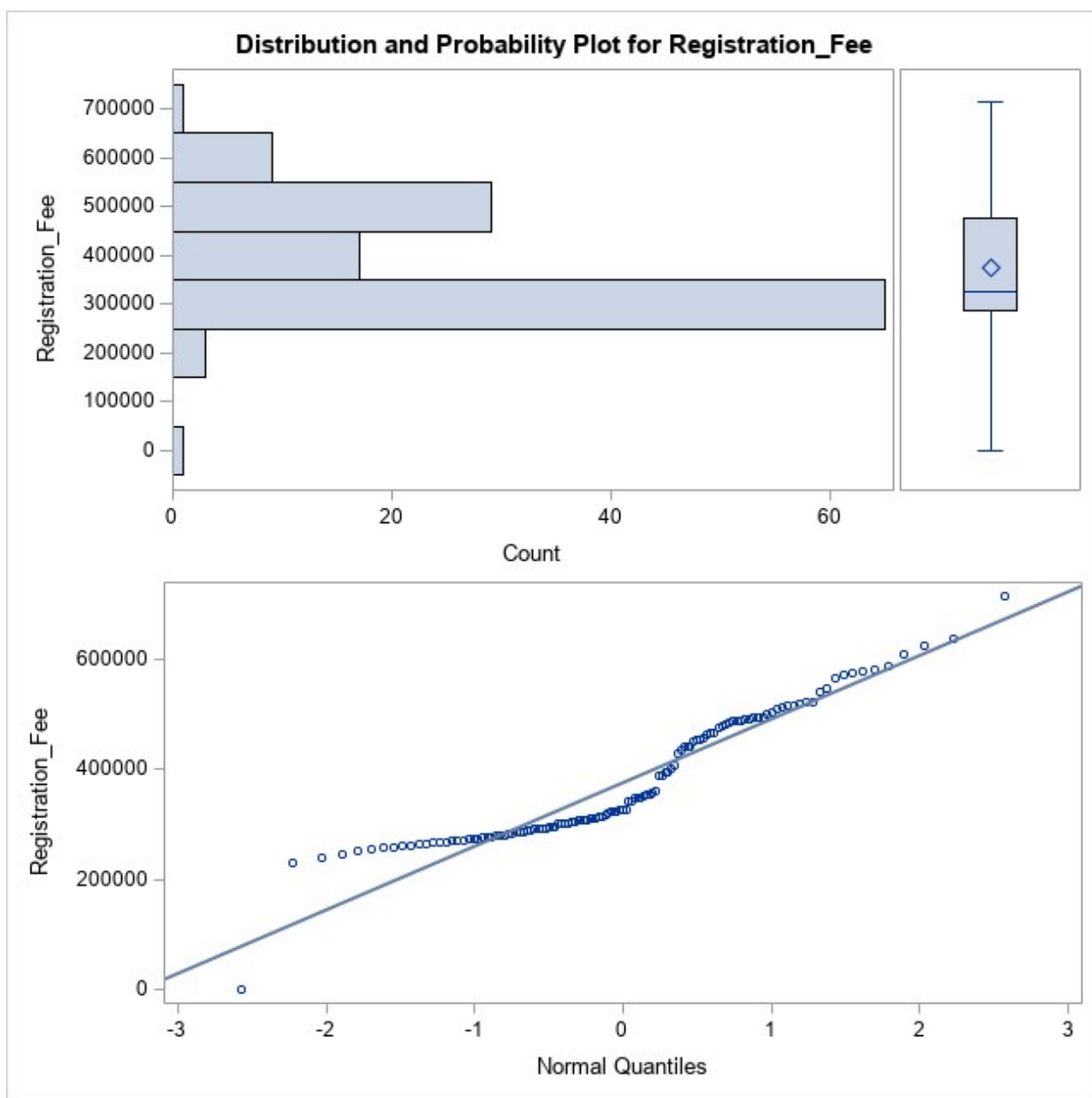
The SAS System

The UNIVARIATE Procedure
Variable: Driver_license_Fee

Moments			
N	124	Sum Weights	124
Mean	10019393	Sum Observations	1242404728
Std Deviation	1524044.78	Variance	2.32271E12
Skewness	-0.6591339	Kurtosis	2.28520233
Uncorrected SS	1.27338E16	Corrected SS	2.85694E14
Coeff Variation	15.2109493	Std Error Mean	136863.262

Basic Statistical Measures			
Location		Variability	
Mean	10019393	Std Deviation	1524045
Median	10104327	Variance	2.32271E12
Mode	.	Range	9783142
		Interquartile Range	1645459

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	73.20732	Pr > |t|	<.0001
Sign	M	62	Pr >= |M|	<.0001
Signed Rank	S	3875	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	13910272
99%	13327628
95%	12569807
90%	11684638
75% Q3	10904376
50% Median	10104327
25% Q1	9258917
10%	8166739
5%	7400057
1%	4596525
0% Min	4127130

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
4127130	3	12824680	39
4596525	2	12868456	14
6689687	70	13093977	51
7226118	72	13327628	50
7358083	84	13910272	49

Missing Values			
Missing Value	Count	**Percent Of**	
		All Obs	Missing Obs
.	1	0.80	100.00

Distribution and Probability Plot for Driver_license_Fee
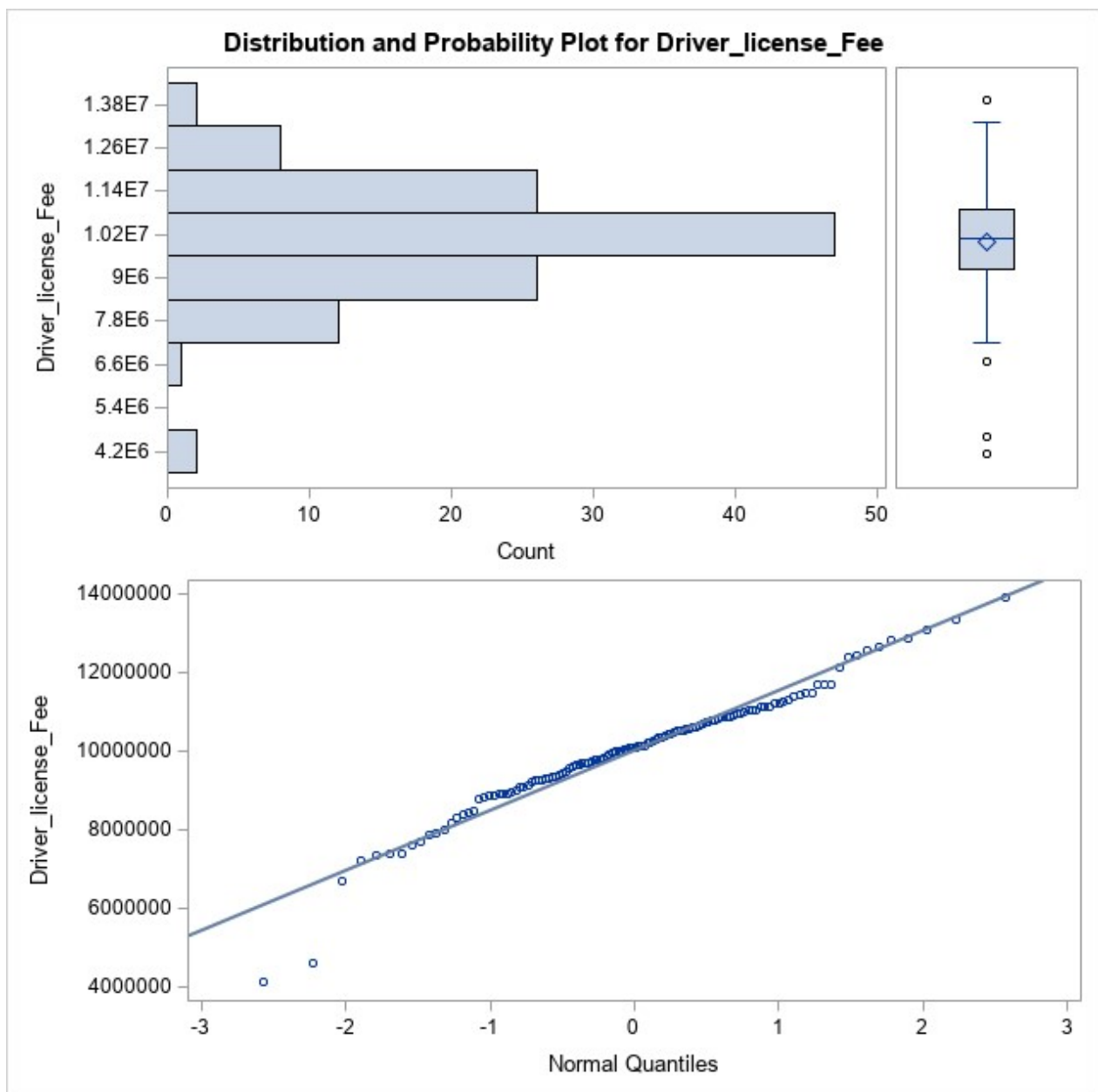
The SAS System

The UNIVARIATE Procedure
Variable: Emission_inspection

Moments			
N	124	Sum Weights	124
Mean	1489036.1	Sum Observations	184640476
Std Deviation	1465502.53	Variance	2.1477E12
Skewness	4.03870835	Kurtosis	30.5688358
Uncorrected SS	5.39103E14	Corrected SS	2.64167E14
Coeff Variation	98.4195436	Std Error Mean	131606.012

Basic Statistical Measures			
Location		Variability	
Mean	1489036	Std Deviation	1465503
Median	1740757	Variance	2.1477E12
Mode	.	Range	12913531
		Interquartile Range	1990913

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	11.31435	Pr > |t|	<.0001
Sign	M	62	Pr >= |M|	<.0001
Signed Rank	S	3875	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	13039969
99%	5254481
95%	2664310
90%	2515023
75% Q3	2223228
50% Median	1740757
25% Q1	232315
10%	195304
5%	168795
1%	127004
0% Min	126438

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
126438	121	2854151	61
127004	120	3085925	39
151252	119	3495113	68
151927	122	5254481	88
154146	118	13039969	77

Missing Values			
Missing Value	Count	Percent Of	
		All Obs	Missing Obs
.	1	0.80	100.00

Distribution and Probability Plot for Emission_inspection
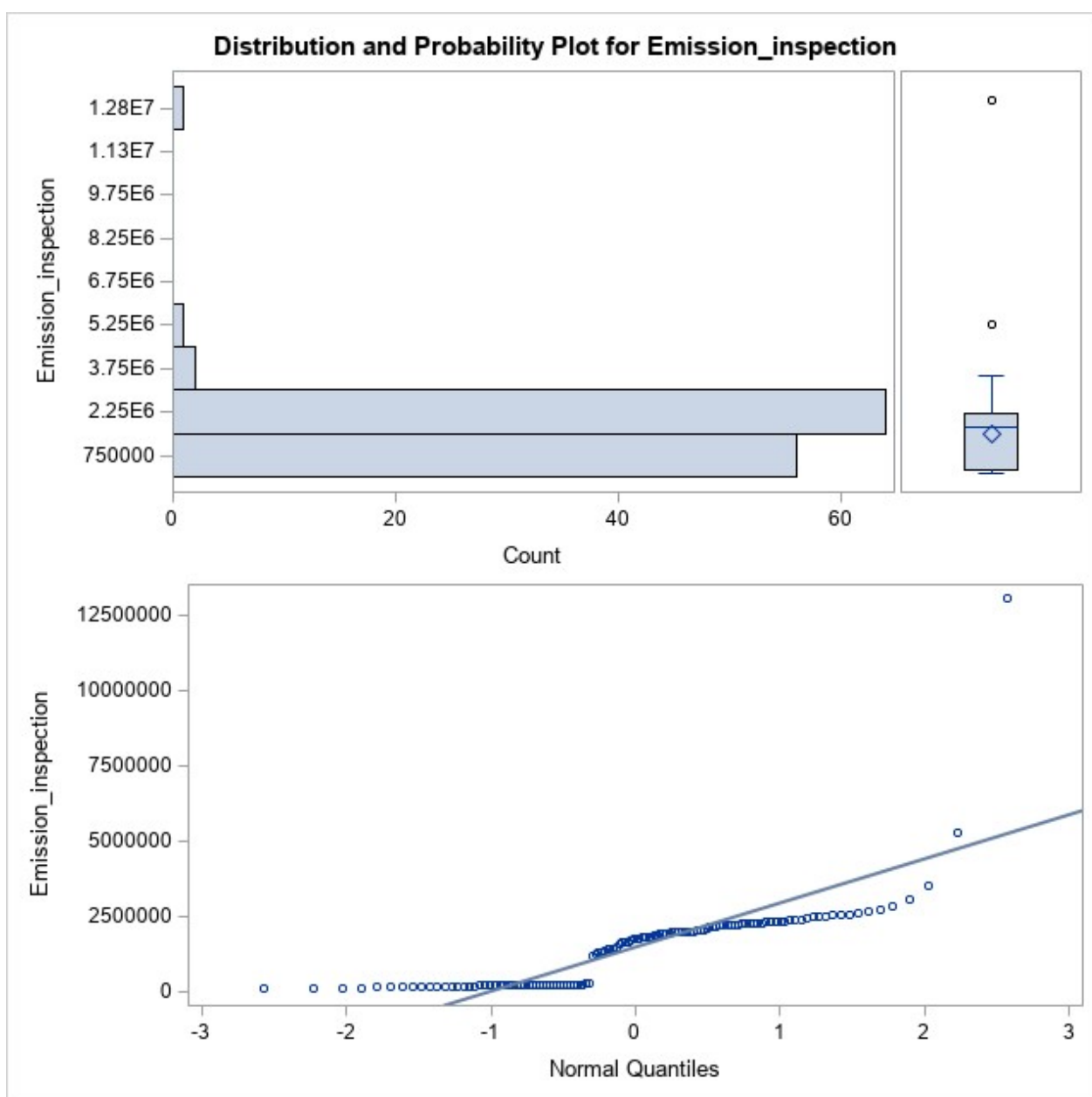
The SAS System

The UNIVARIATE Procedure
Variable: Overweight

Moments			
N	124	Sum Weights	124
Mean	521795.031	Sum Observations	64702583.8
Std Deviation	88774.7733	Variance	7880960368
Skewness	0.50053039	Kurtosis	-0.5039995
Uncorrected SS	3.47308E13	Corrected SS	9.69358E11
Coeff Variation	17.013342	Std Error Mean	7972.20998

Basic Statistical Measures			
Location		Variability	
Mean	521795.0	Std Deviation	88775
Median	511257.1	Variance	7880960368
Mode	.	Range	383609
		Interquartile Range	128273

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	65.45174	Pr > |t|	<.0001
Sign	M	62	Pr >= |M|	<.0001
Signed Rank	S	3875	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	745824
99%	737088
95%	677132
90%	648146
75% Q3	580385
50% Median	511257
25% Q1	452112
10%	421847
5%	393878
1%	367956
0% Min	362215

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
362215	71	699244	16
367956	51	712728	37
380779	85	726338	25
385656	84	737088	11
390482	120	745824	14

Missing Values			
Missing Value	Count	Percent Of	
		All Obs	Missing Obs
.	1	0.80	100.00

Distribution and Probability Plot for Overweight
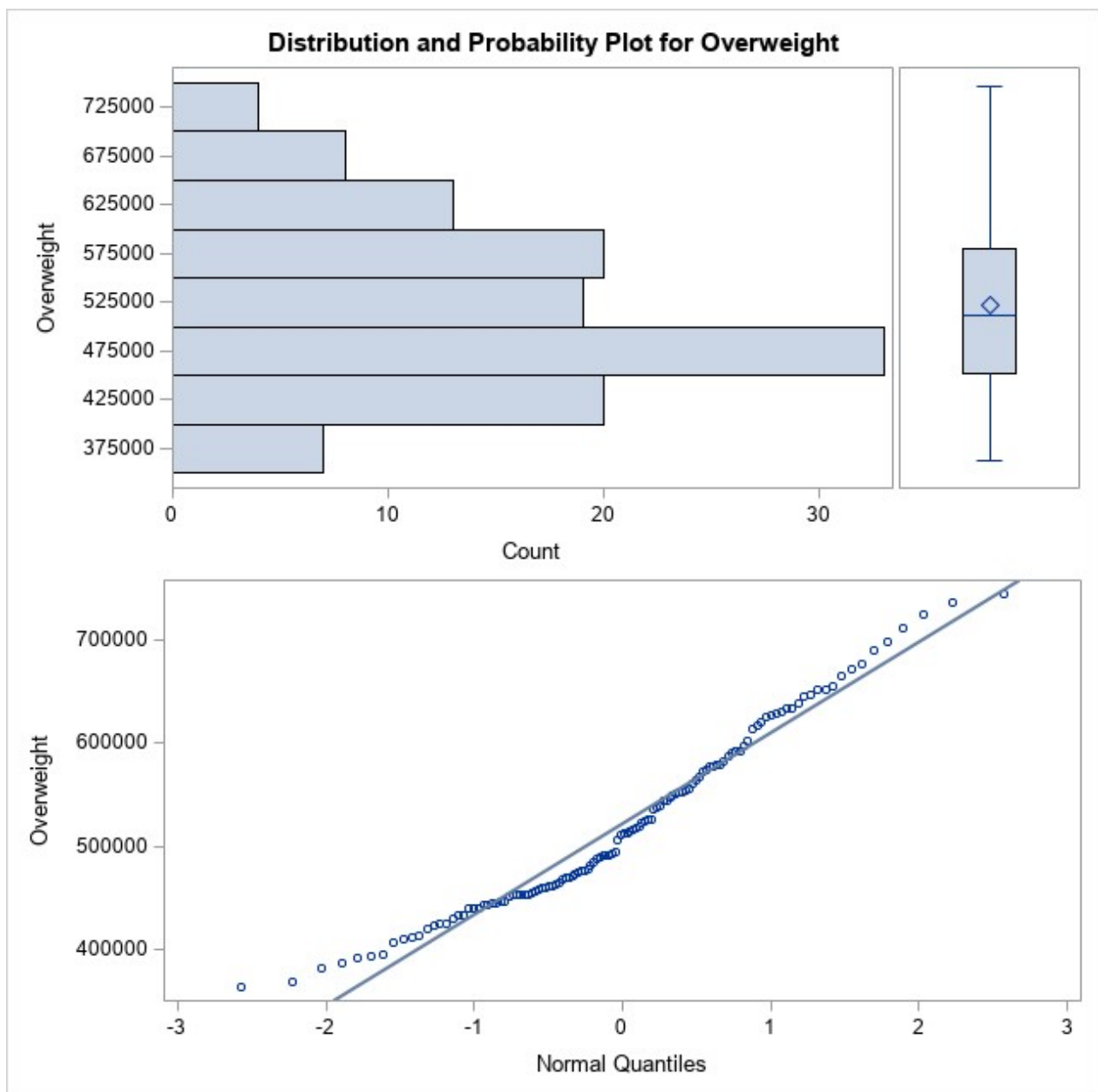
The SAS System

The UNIVARIATE Procedure
Variable: Title_fee

Moments			
N	75	Sum Weights	75
Mean	124498.539	Sum Observations	9337390.46
Std Deviation	525401.003	Variance	2.76046E11
Skewness	8.65459889	Kurtosis	74.9335311
Uncorrected SS	2.15899E13	Corrected SS	2.04274E13
Coeff Variation	422.013788	Std Error Mean	60668.0821

Basic Statistical Measures			
Location		Variability	
Mean	124498.5	Std Deviation	525401
Median	64438.0	Variance	2.76046E11
Mode	.	Range	4572254
		Interquartile Range	10294

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	2.052126	Pr > |t|	0.0437
Sign	M	37.5	Pr >= |M|	<.0001
Signed Rank	S	1425	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4612981
99%	4612981
95%	76371
90%	72347
75% Q3	68082
50% Median	64438
25% Q1	57788
10%	52463
5%	50311
1%	40727
0% Min	40727

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
40727	46	76122	11
45160	2	76371	50
45640	3	77702	40
50311	73	130322	47
51316	75	4612981	77

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	50	40.00	100.00

Distribution and Probability Plot for Title_fee
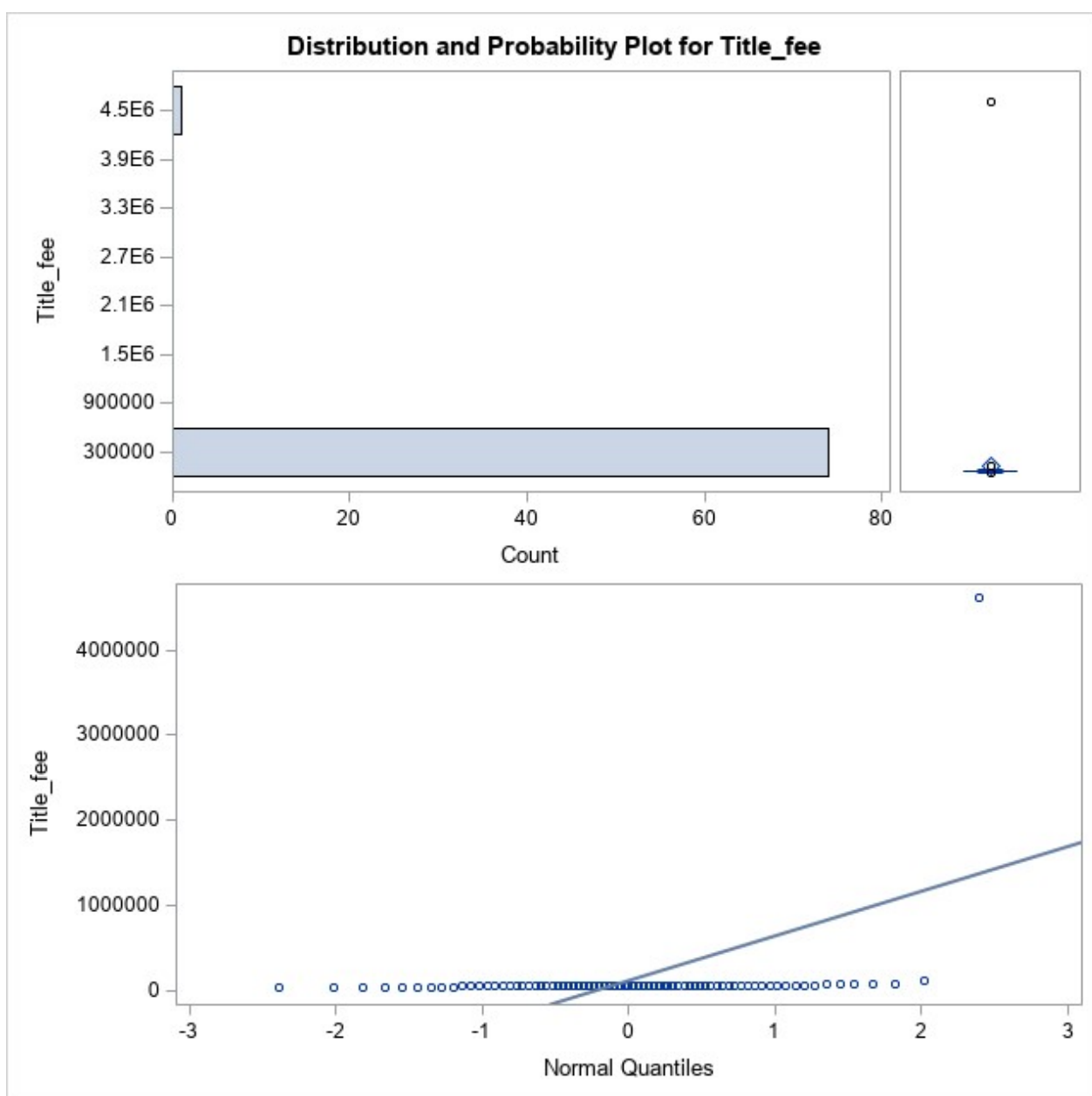
The SAS System

The UNIVARIATE Procedure
Variable: Trust_Fund_Title_fee

Moments			
N	125	Sum Weights	125
Mean	8093937.39	Sum Observations	1011742173
Std Deviation	2035918.2	Variance	4.14496E12
Skewness	0.40954197	Kurtosis	-0.9905726
Uncorrected SS	8.70295E15	Corrected SS	5.13975E14
Coeff Variation	25.1536194	Std Error Mean	182098.06

Basic Statistical Measures			
Location		Variability	
Mean	8093937	Std Deviation	2035918
Median	7545375	Variance	4.14496E12
Mode	.	Range	8672764
		Interquartile Range	3533861

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	44.44824	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	13309133
99%	12276612
95%	11265599
90%	11095647
75% Q3	9949463
50% Median	7545375
25% Q1	6415602
10%	5622055
5%	5435113
1%	5043473
0% Min	4636369

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
4636369	121	11420403	35
5043473	108	11893061	28
5070594	120	12009896	16
5101678	84	12276612	50
5322123	119	13309133	39

Distribution and Probability Plot for Trust_Fund_Title_fee
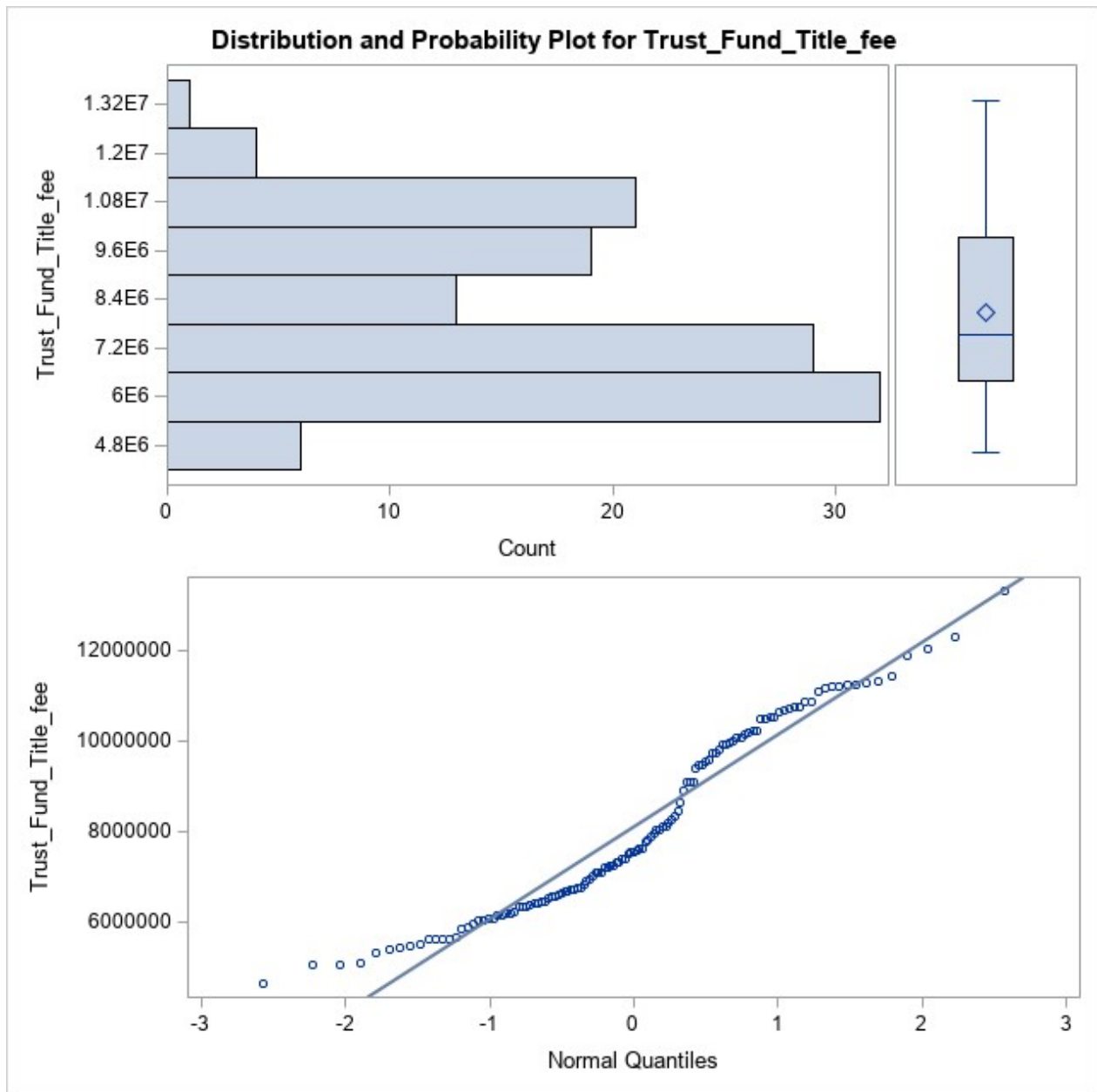
The SAS System

The UNIVARIATE Procedure
Variable: Quarterly_GDP_of_NC

Moments			
N	125	Sum Weights	125
Mean	493296.662	Sum Observations	61662082.7
Std Deviation	62332.5646	Variance	3885348609
Skewness	0.24724331	Kurtosis	-1.3306706
Uncorrected SS	3.08995E13	Corrected SS	4.81783E11
Coeff Variation	12.6359186	Std Error Mean	5575.19407

Basic Statistical Measures			
Location		Variability	
Mean	493296.7	Std Deviation	62333
Median	484016.5	Variance	3885348609
Mode	409551.0	Range	192237
		Interquartile Range	110208

Note: The mode displayed is the smallest of 38 modes with a count of 3.

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	88.48063	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	601788
99%	601788
95%	595118
90%	581020
75% Q3	546776
50% Median	484017
25% Q1	436567
10%	416560
5%	413755
1%	409551

0% Min	409551

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
409551	125	600631	5
409551	124	600631	6
409551	123	601788	7
409784	119	601788	8
409784	118	601788	9

Distribution and Probability Plot for Quarterly_GDP_of_NC
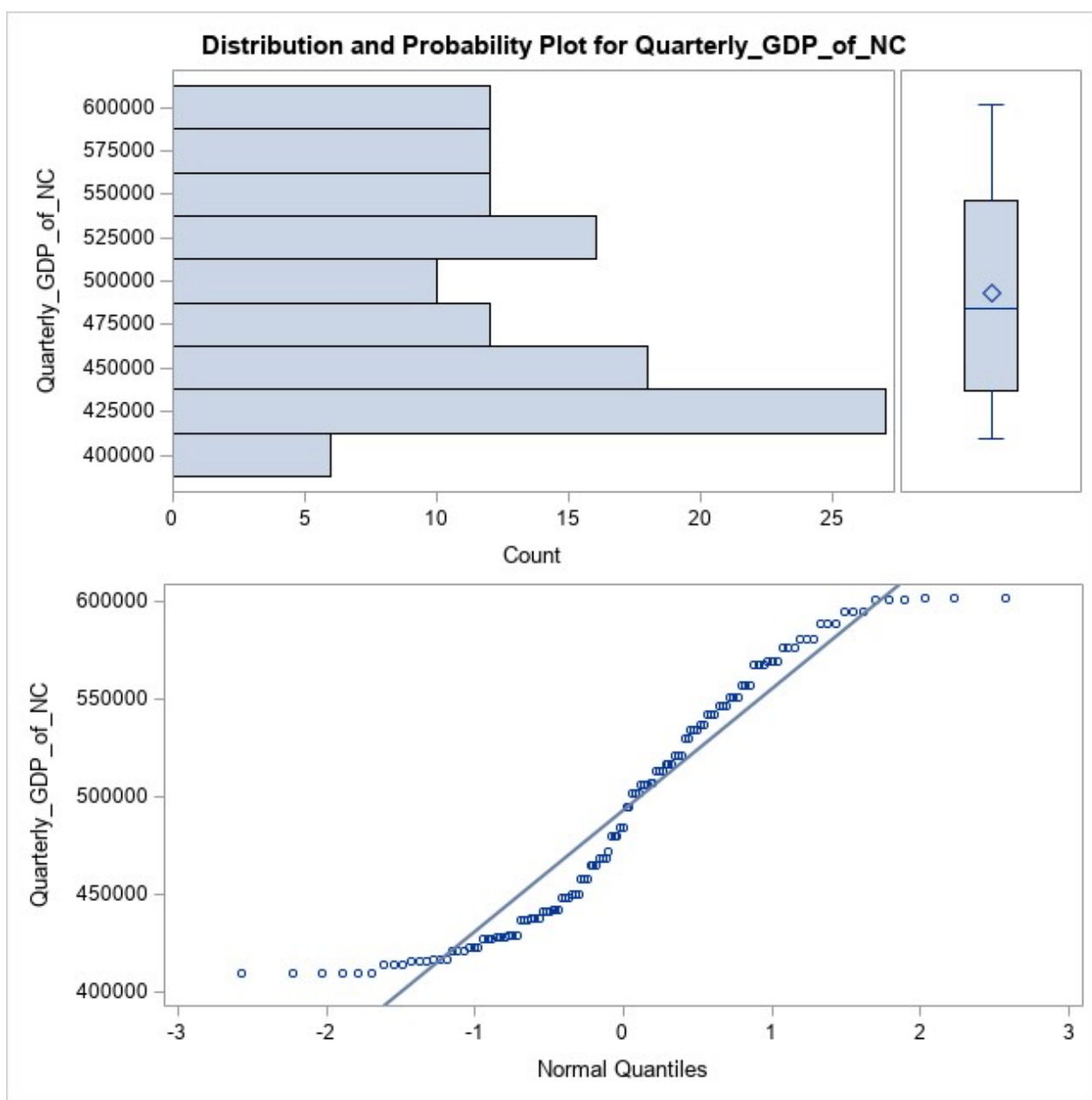
The SAS System

The UNIVARIATE Procedure
Variable: Labor_Force

Moments			
N	125	Sum Weights	125
Mean	4790456.58	Sum Observations	598807073
Std Deviation	164957.001	Variance	2.72108E10
Skewness	0.49590856	Kurtosis	-1.0676884
Uncorrected SS	2.87193E15	Corrected SS	3.37414E12
Coeff Variation	3.4434505	Std Error Mean	14754.2027

Basic Statistical Measures			
Location		Variability	
Mean	4790457	Std Deviation	164957
Median	4720031	Variance	2.72108E10
Mode	.	Range	566113
		Interquartile Range	296671

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	324.6842	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5114662
99%	5110632
95%	5093224
90%	5052626
75% Q3	4950706
50% Median	4720031
25% Q1	4654035
10%	4613405
5%	4585775
1%	4550437
0% Min	4548549

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
4548549	122	5103301	7
4550437	123	5104251	8
4553298	121	5104706	9
4555878	124	5110632	6
4563028	125	5114662	5

Distribution and Probability Plot for Labor_Force
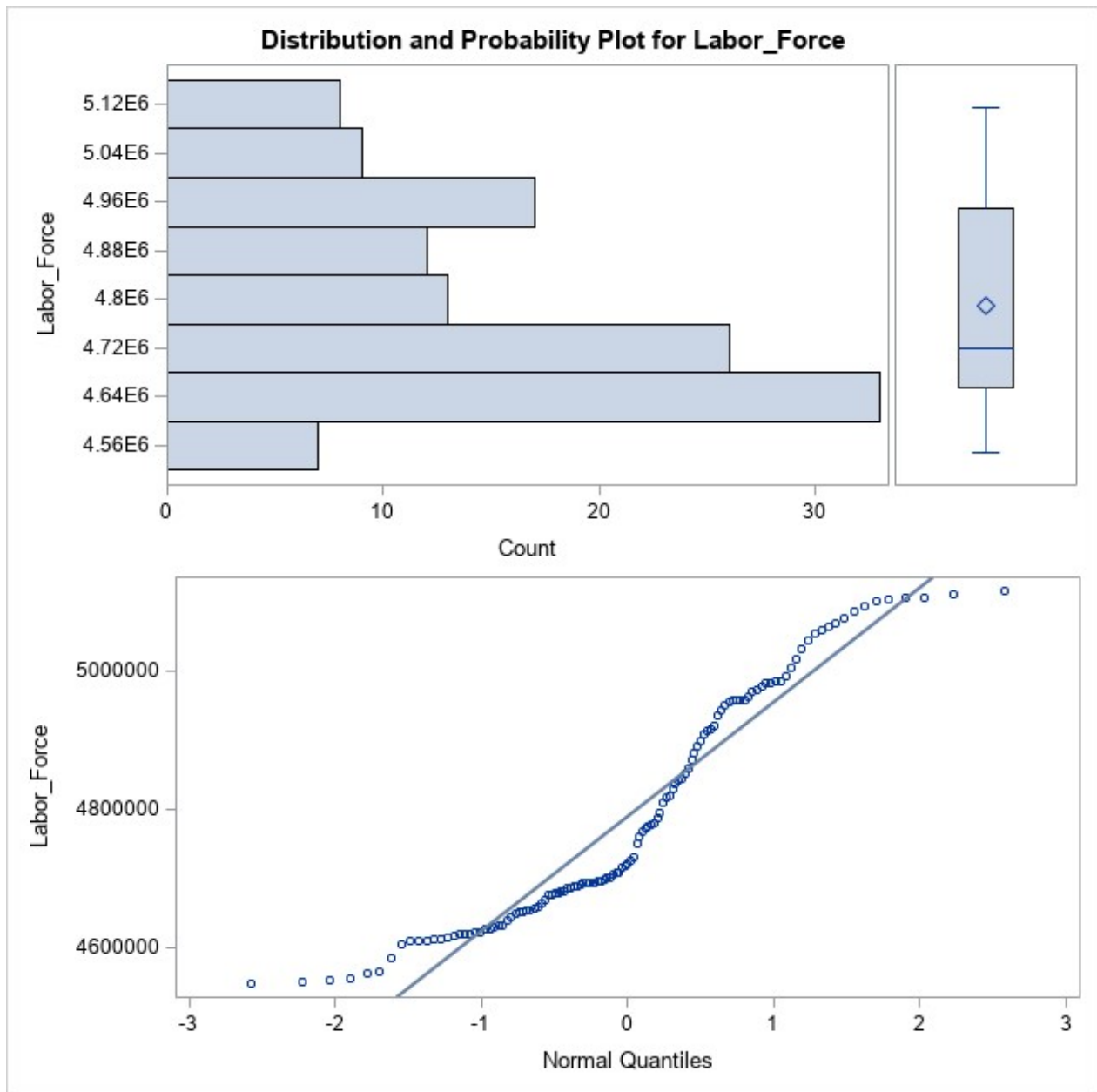
The SAS System

The UNIVARIATE Procedure
Variable: Employment

Moments			
N	125	Sum Weights	125
Mean	4455883.62	Sum Observations	556985452
Std Deviation	277036.733	Variance	7.67494E10
Skewness	0.18456335	Kurtosis	-1.3652206
Uncorrected SS	2.49138E15	Corrected SS	9.51692E12
Coeff Variation	6.21732426	Std Error Mean	24778.9187

Basic Statistical Measures			
Location		**Variability**	
Mean	4455884	Std Deviation	277037
Median	4420712	Variance	7.67494E10
Mode	.	Range	882527
		Interquartile Range	534338

Tests for Location: Mu0=0				
Test		**Statistic**	**p Value**	
Student's t	t	179.8256	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4932056
99%	4925741
95%	4898132
90%	4847960
75% Q3	4735061
50% Median	4420712
25% Q1	4200723
10%	4128264
5%	4078206
1%	4052924
0% Min	4049529

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
4049529	121	4917178	7
4052924	122	4918234	9
4053239	120	4918613	8
4060670	123	4925741	6
4064556	119	4932056	5

Distribution and Probability Plot for Employment
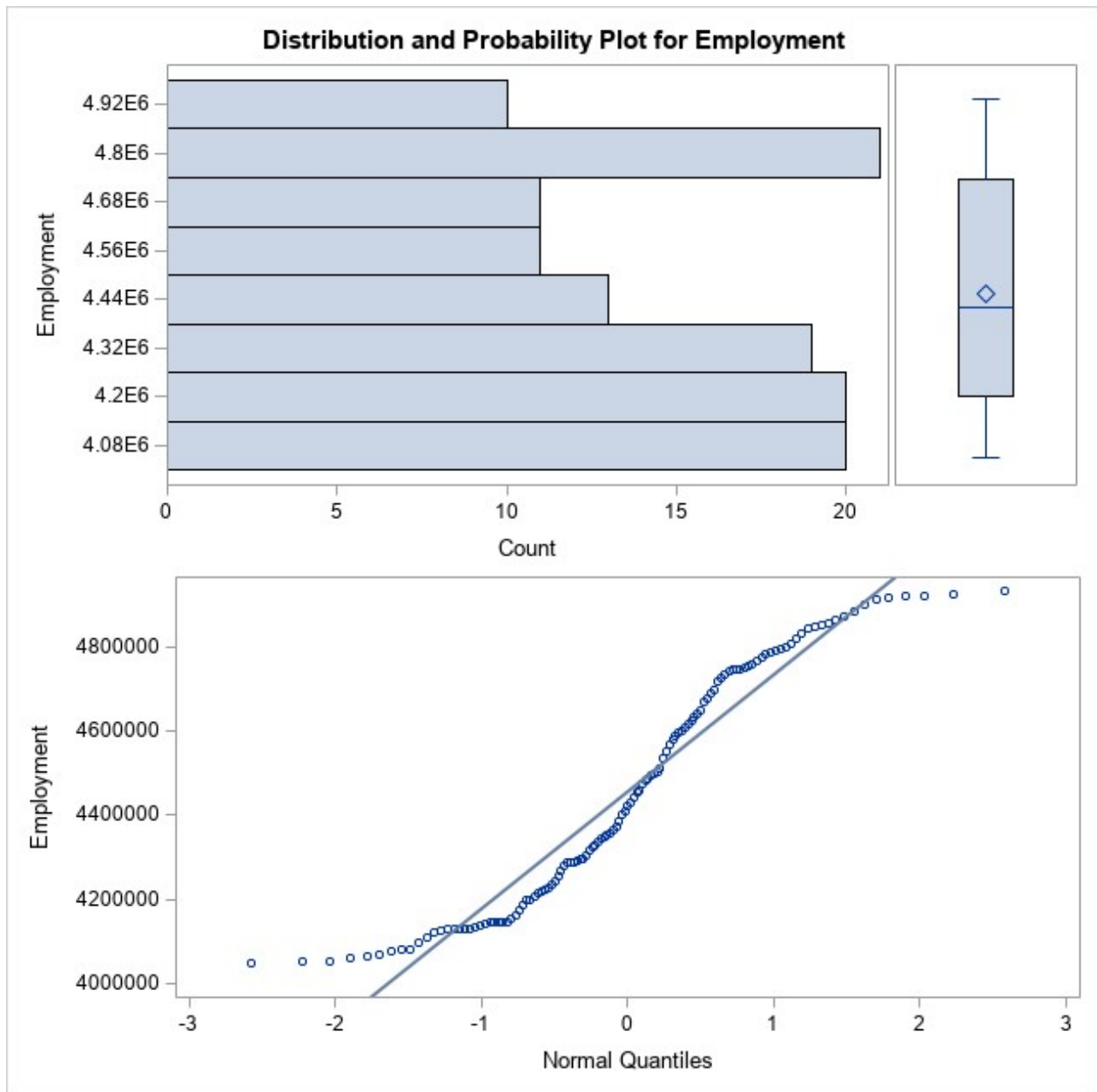
The SAS System

The UNIVARIATE Procedure
Variable: Unemployment

Moments			
N	125	Sum Weights	125
Mean	334572.968	Sum Observations	41821621
Std Deviation	121071.488	Variance	1.46583E10
Skewness	0.33984201	Kurtosis	-1.3440651
Uncorrected SS	1.581E13	Corrected SS	1.81763E12
Coeff Variation	36.1868709	Std Error Mean	10828.9631

Basic Statistical Measures			
Location		Variability	
Mean	334573.0	Std Deviation	121071
Median	292497.0	Variance	1.46583E10
Mode	.	Range	432906
		Interquartile Range	239859

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	30.89612	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	615512
99%	605692
95%	513154
90%	487763
75% Q3	455559
50% Median	292497
25% Q1	215700
10%	197302
5%	192296
1%	184891
0% Min	182606

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
182606	5	521219	119
184891	6	524931	117
185638	8	525559	118
186123	7	605692	3
186472	9	615512	2

Distribution and Probability Plot for Unemployment
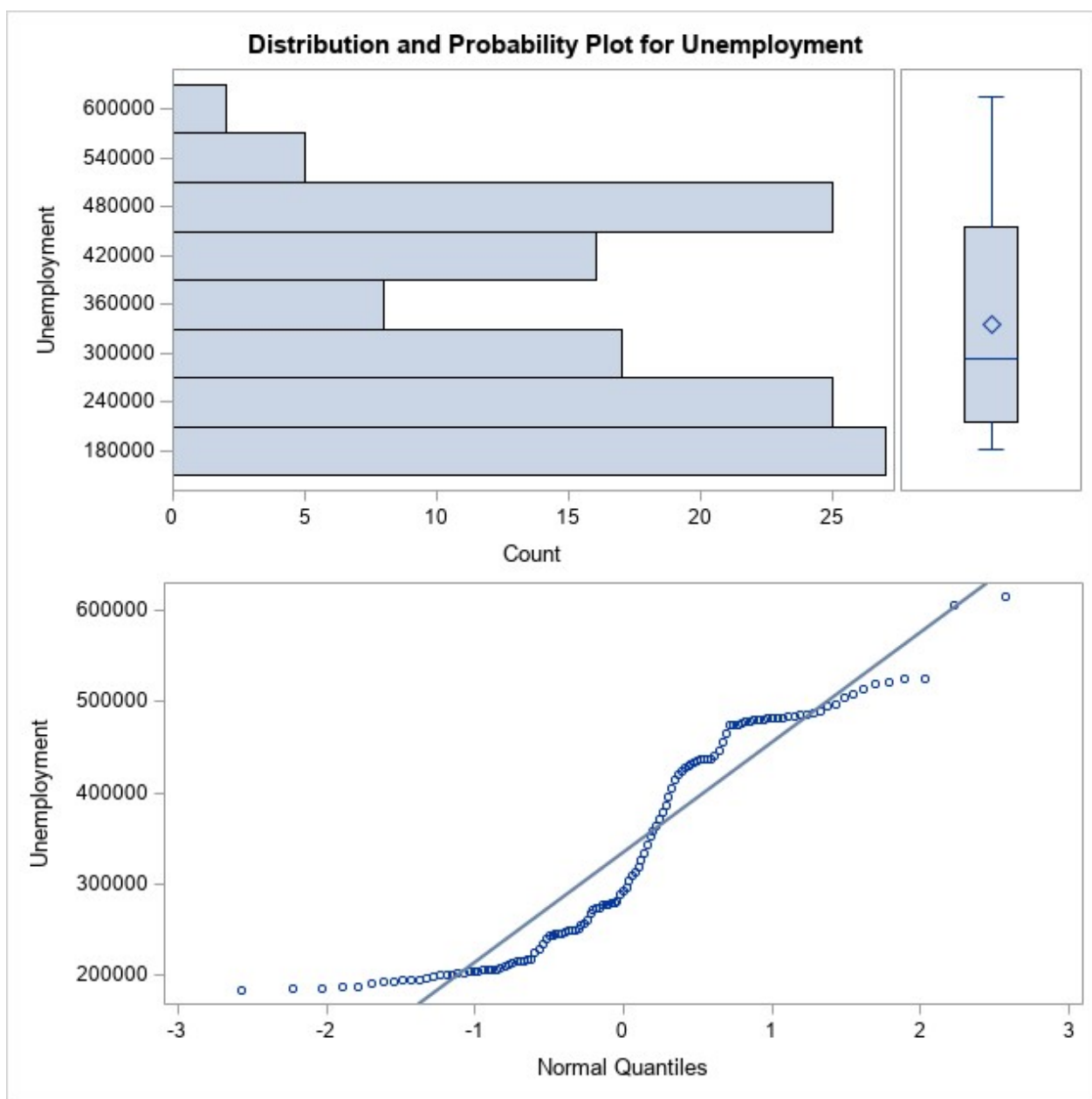
The SAS System

The UNIVARIATE Procedure
Variable: UnemploymentRate

Moments			
N	125	Sum Weights	125
Mean	0.07016	Sum Observations	8.77
Std Deviation	0.02682031	Variance	0.00071933
Skewness	0.32165762	Kurtosis	-1.3402876
Uncorrected SS	0.7045	Corrected SS	0.0891968
Coeff Variation	38.2273519	Std Error Mean	0.00239888

Basic Statistical Measures			
Location		Variability	
Mean	0.070160	Std Deviation	0.02682
Median	0.060000	Variance	0.0007193
Mode	0.040000	Range	0.09000
		Interquartile Range	0.06000

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	29.24696	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.13
99%	0.13
95%	0.11
90%	0.11
75% Q3	0.10
50% Median	0.06
25% Q1	0.04
10%	0.04
5%	0.04
1%	0.04
0% Min	0.04

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
0.04	37	0.11	123
0.04	36	0.11	124
0.04	35	0.11	125
0.04	34	0.13	2
0.04	33	0.13	3

Distribution and Probability Plot for UnemploymentRate
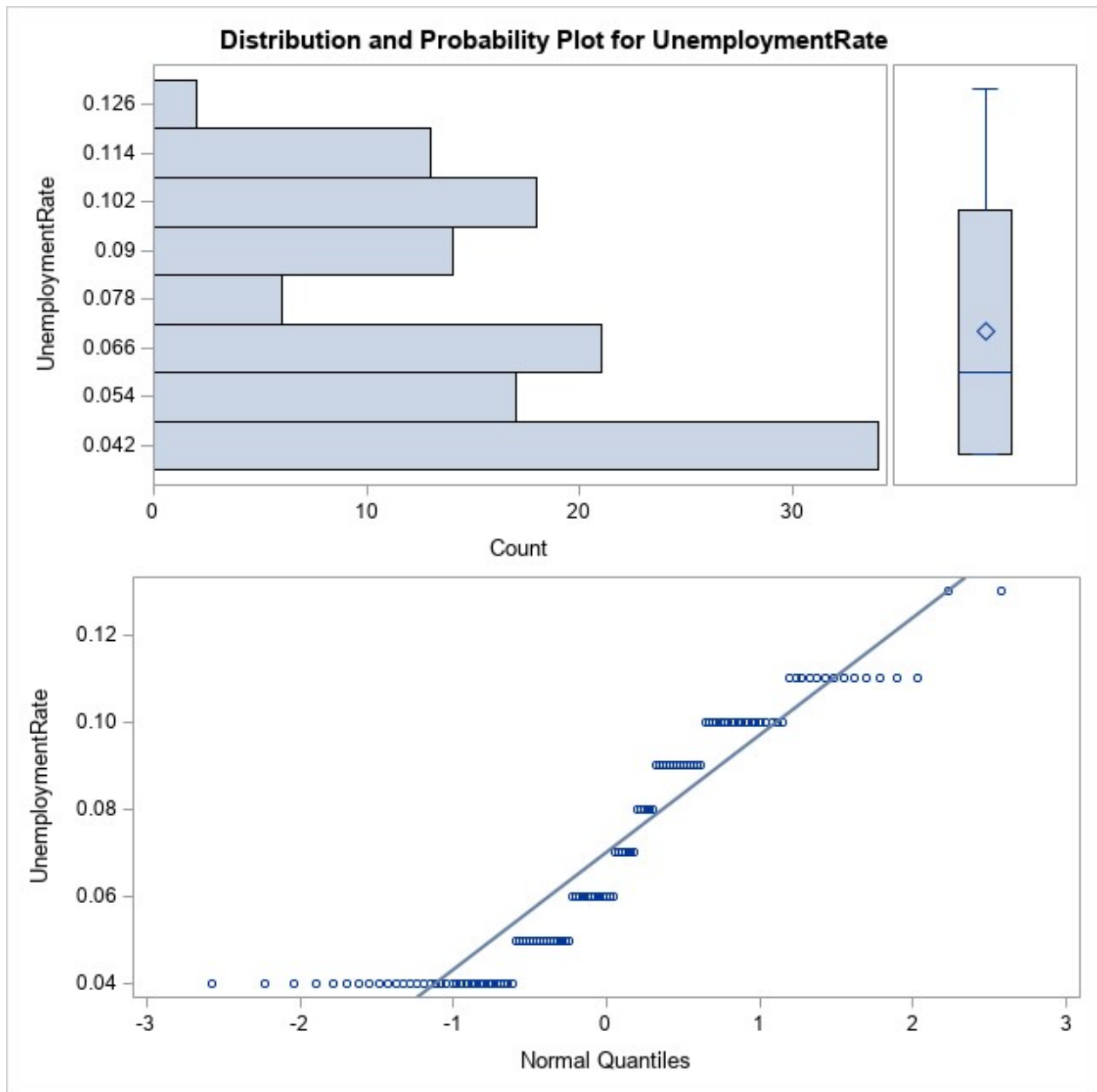
The SAS System

The UNIVARIATE Procedure
Variable: CPI_U

Moments			
N	125	Sum Weights	125
Mean	229.69368	Sum Observations	28711.71
Std Deviation	11.653488	Variance	135.803783
Skewness	-0.1348018	Kurtosis	-0.945515
Uncorrected SS	6611738	Corrected SS	16839.6691
Coeff Variation	5.07349093	Std Error Mean	1.04231966

Basic Statistical Measures			
Location		Variability	
Mean	229.6937	Std Deviation	11.65349
Median	229.8500	Variance	135.80378
Mode	231.7600	Range	39.59000
		Interquartile Range	17.27000

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	220.3678	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	248.41
99%	248.14
95%	247.25
90%	246.52
75% Q3	239.07
50% Median	229.85
25% Q1	221.80
10%	211.42
5%	210.02
1%	208.91
0% Min	208.82

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
208.82	125	247.39	8
208.91	123	247.42	9
209.00	124	248.01	6
209.29	122	248.14	4
209.48	120	248.41	5

Distribution and Probability Plot for CPI_U
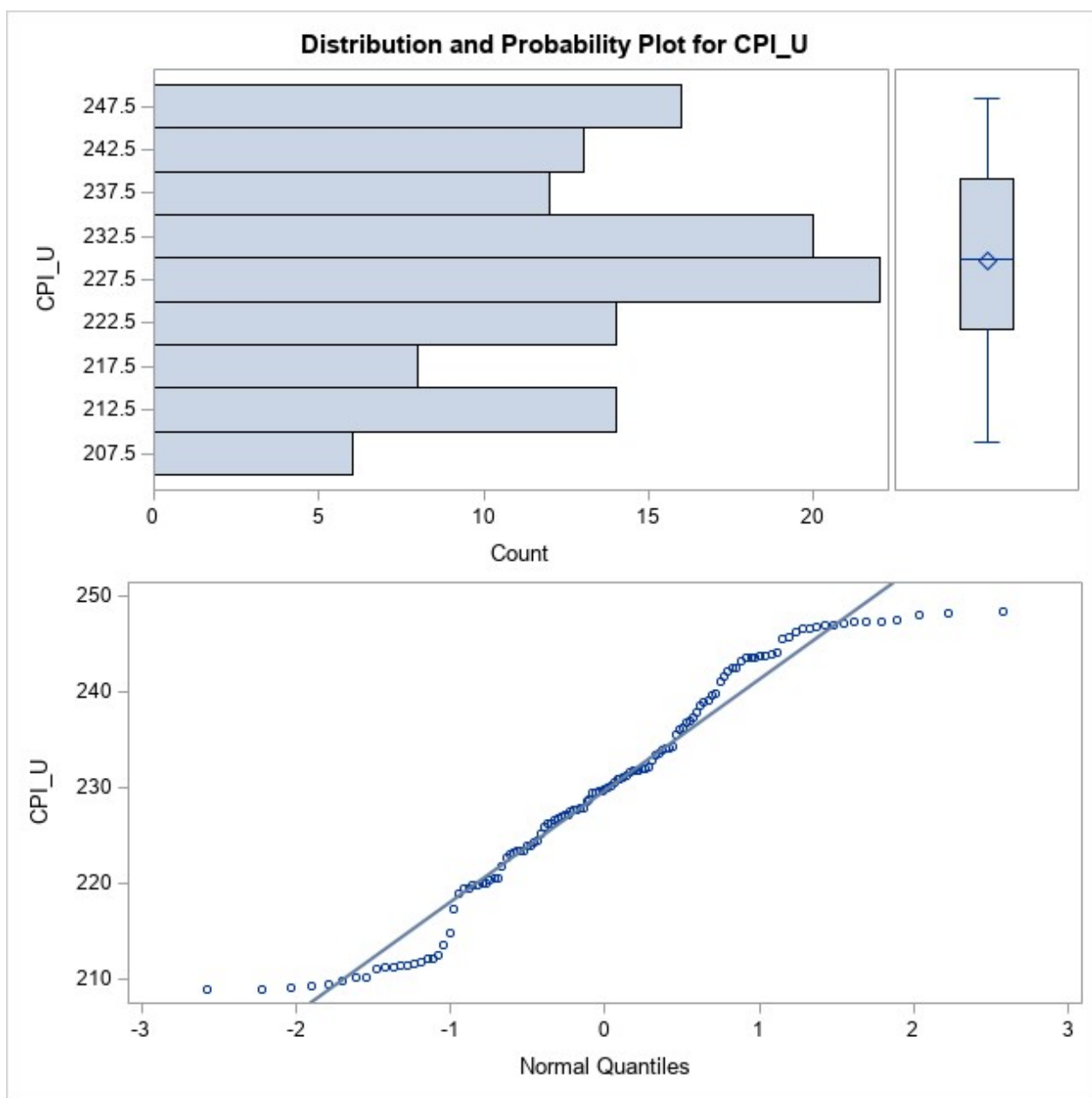
The SAS System

The UNIVARIATE Procedure
Variable: Normalized_CPI_U

Moments			
N	125	Sum Weights	125
Mean	1.10008	Sum Observations	137.51
Std Deviation	0.05587278	Variance	0.00312177
Skewness	-0.1568398	Kurtosis	-0.9333495
Uncorrected SS	151.6591	Corrected SS	0.3870992
Coeff Variation	5.07897442	Std Error Mean	0.00499741

Basic Statistical Measures			
Location		Variability	
Mean	1.100080	Std Deviation	0.05587
Median	1.100000	Variance	0.00312
Mode	1.180000	Range	0.19000
		Interquartile Range	0.08000

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	220.1299	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.19
99%	1.19
95%	1.18
90%	1.18
75% Q3	1.14
50% Median	1.10
25% Q1	1.06
10%	1.01
5%	1.01
1%	1.00
0% Min	1.00

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
1	125	1.18	15
1	124	1.18	16
1	123	1.19	4
1	122	1.19	5
1	121	1.19	6

Distribution and Probability Plot for Normalized_CPI_U
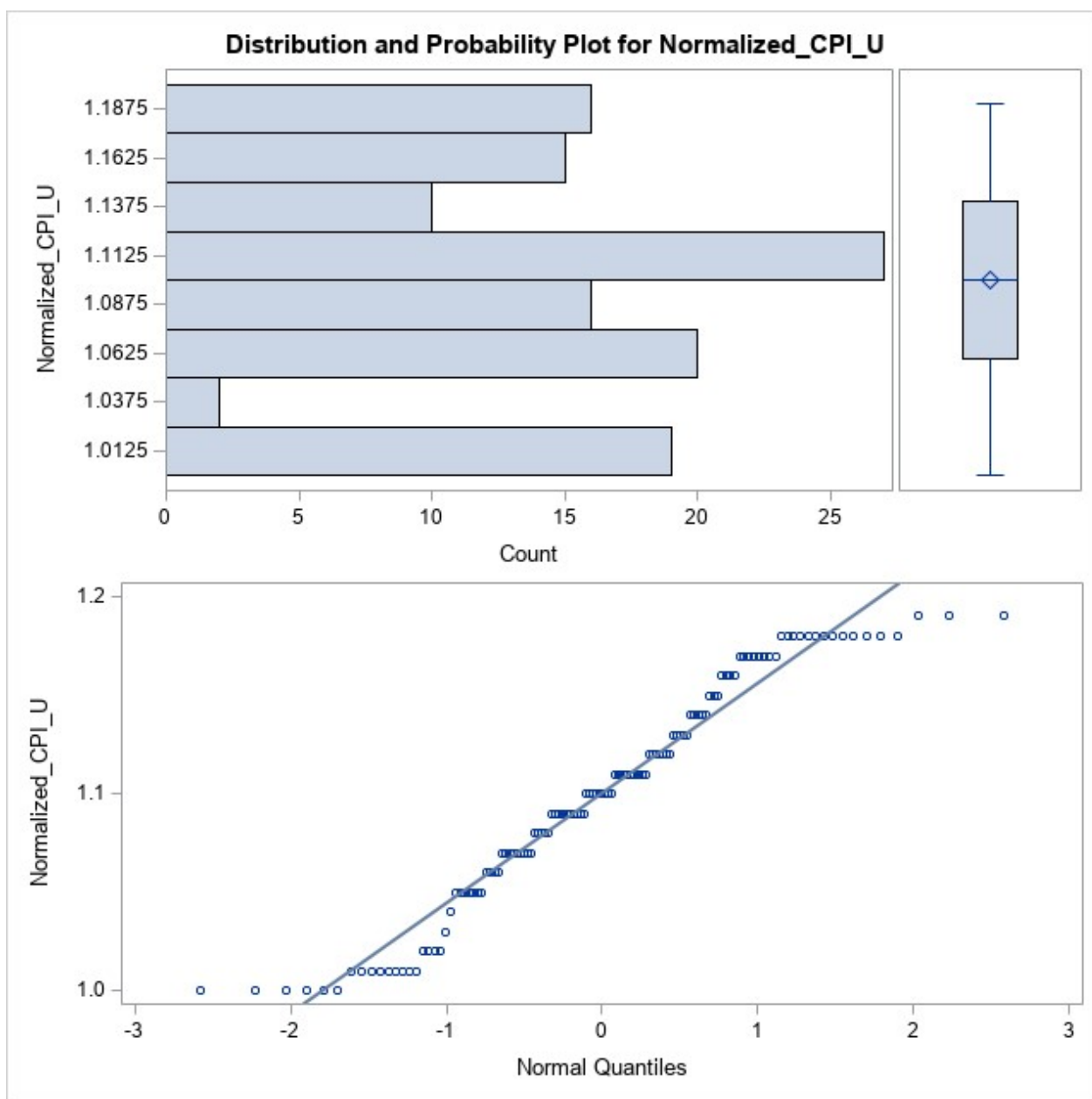
The SAS System

The UNIVARIATE Procedure
Variable: Monthly_Retail_and_Food_Services

Moments			
N	125	Sum Weights	125
Mean	84268.928	Sum Observations	10533616
Std Deviation	16187.5087	Variance	262035438
Skewness	-0.189322	Kurtosis	-0.9558824
Uncorrected SS	9.20149E11	Corrected SS	3.24924E10
Coeff Variation	19.2093445	Std Error Mean	1447.85479

Basic Statistical Measures			
Location		Variability	
Mean	84268.93	Std Deviation	16188
Median	86548.00	Variance	262035438
Mode	.	Range	65427
		Interquartile Range	27530

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	58.20261	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	115297
99%	114659
95%	108267
90%	103701
75% Q3	97859
50% Median	86548
25% Q1	70329
10%	62575
5%	57881
1%	50024
0% Min	49870

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
49870	119	109269	12
50024	121	109845	16
51822	118	111772	14
52123	123	114659	11
54866	122	115297	1

Distribution and Probability Plot for Monthly_Retail_and_Food_Services
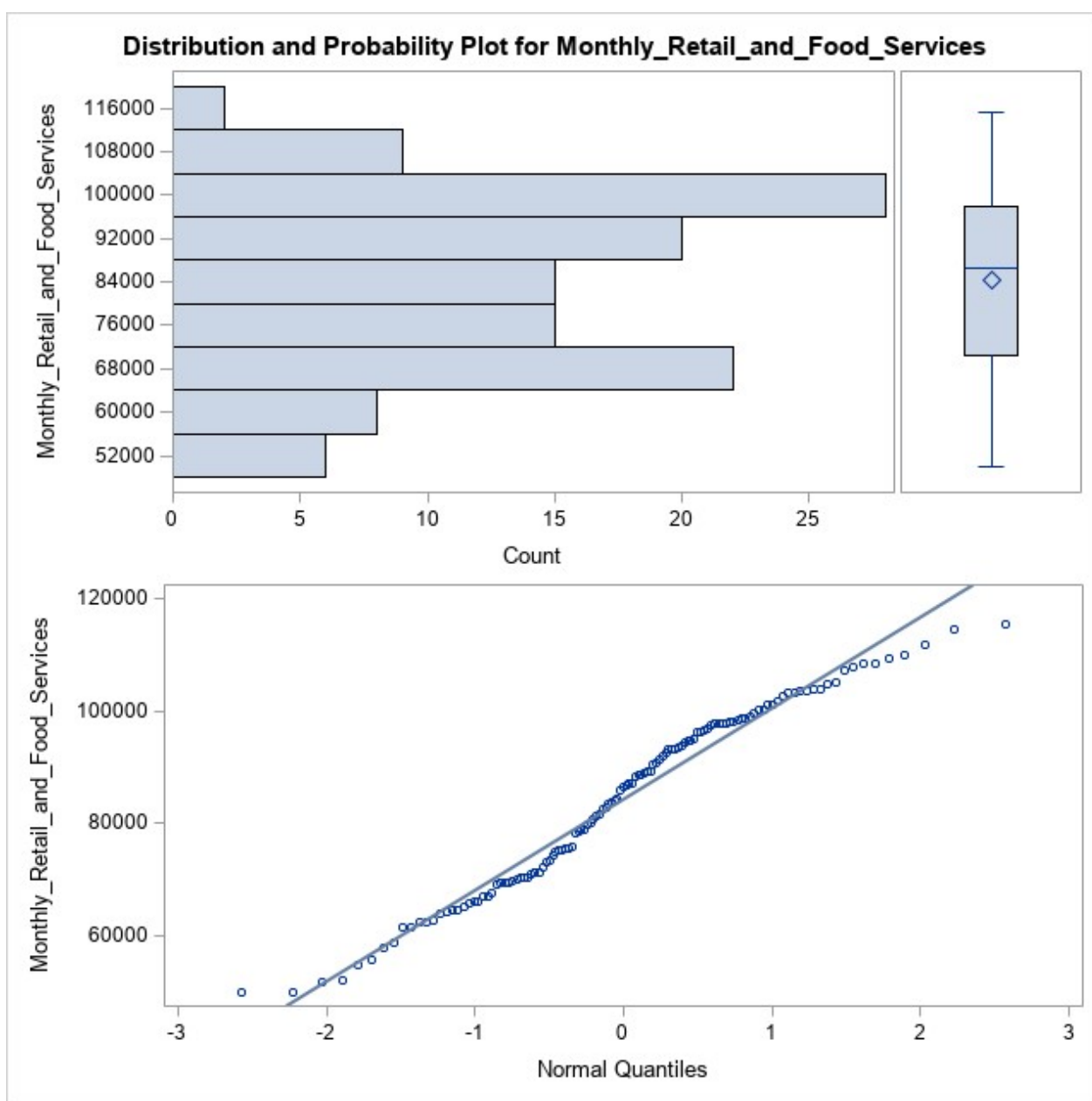
The SAS System

The UNIVARIATE Procedure
Variable: Ave_Temperature_F

Moments			
N	125	Sum Weights	125
Mean	61.7664	Sum Observations	7720.8
Std Deviation	14.3460062	Variance	205.807894
Skewness	-0.1032866	Kurtosis	-1.3651121
Uncorrected SS	502406.2	Corrected SS	25520.1789
Coeff Variation	23.2262301	Std Error Mean	1.2831458

Basic Statistical Measures			
Location		Variability	
Mean	61.76640	Std Deviation	14.34601
Median	61.70000	Variance	205.80789
Mode	47.60000	Range	48.80000
		Interquartile Range	27.70000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	48.1367	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	83.7
99%	83.5
95%	81.5
90%	79.7
75% Q3	75.9
50% Median	61.7
25% Q1	48.2
10%	43.4
5%	39.3
1%	36.7

0% Min	34.9

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
34.9	108	82.0	46
36.7	71	82.1	45
36.9	30	82.3	113
37.6	118	83.5	89
37.7	107	83.7	101

Distribution and Probability Plot for Ave_Temperature_F
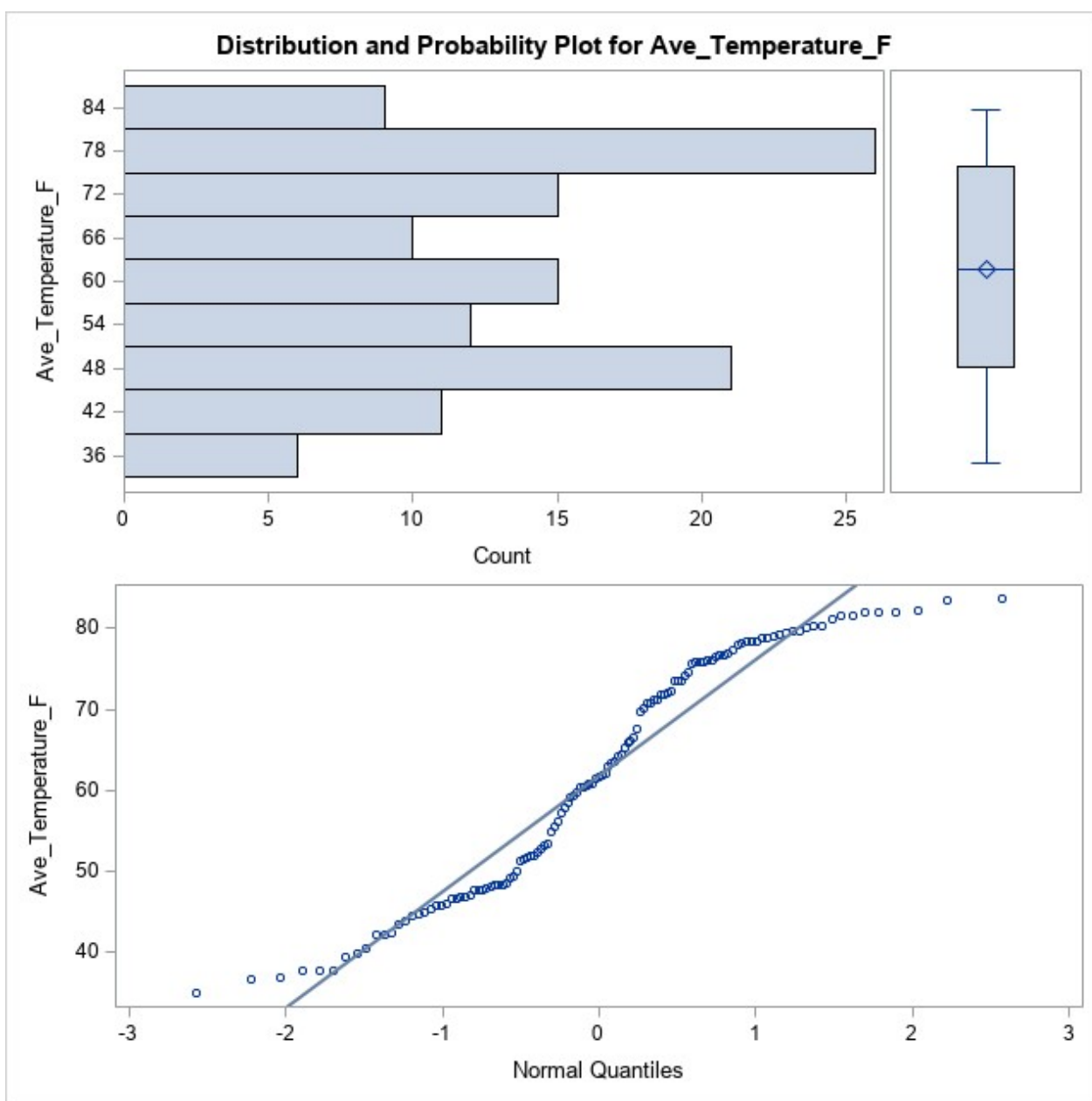
The SAS System

The UNIVARIATE Procedure
Variable: Ave_Precipitation

Moments			
N	125	Sum Weights	125
Mean	0.13272	Sum Observations	16.59
Std Deviation	0.06417436	Variance	0.00411835
Skewness	0.64855003	Kurtosis	0.25189469
Uncorrected SS	2.7125	Corrected SS	0.5106752
Coeff Variation	48.3531941	Std Error Mean	0.00573993

Basic Statistical Measures			
Location		Variability	
Mean	0.132720	Std Deviation	0.06417
Median	0.120000	Variance	0.00412
Mode	0.110000	Range	0.32000
		Interquartile Range	0.08000

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	23.12224	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.34
99%	0.29
95%	0.26
90%	0.22
75% Q3	0.17
50% Median	0.12
25% Q1	0.09
10%	0.06
5%	0.04
1%	0.02
0% Min	0.02

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
0.02	85	0.27	22
0.02	42	0.28	100
0.02	40	0.29	38
0.04	122	0.29	67
0.04	107	0.34	78

Distribution and Probability Plot for Ave_Precipitation
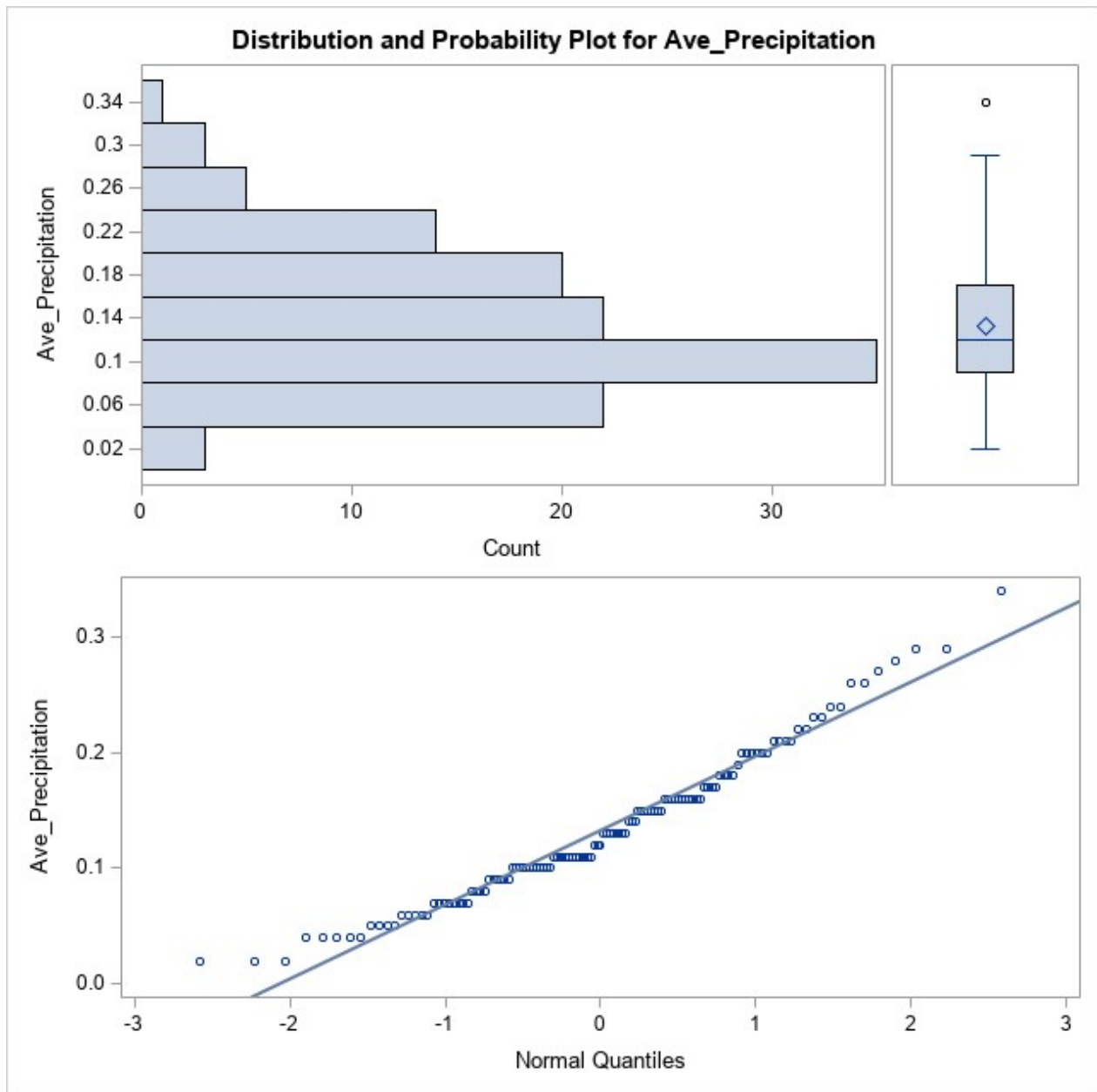
The SAS System

The UNIVARIATE Procedure
Variable: Ave_Snowfall

Moments			
N	125	Sum Weights	125
Mean	0.018	Sum Observations	2.25
Std Deviation	0.04975748	Variance	0.00247581
Skewness	3.96297379	Kurtosis	17.7705295
Uncorrected SS	0.3475	Corrected SS	0.307
Coeff Variation	276.430424	Std Error Mean	0.00445044

Basic Statistical Measures			
Location		Variability	
Mean	0.018000	Std Deviation	0.04976
Median	0.000000	Variance	0.00248
Mode	0.000000	Range	0.30000
		Interquartile Range	0

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	4.04454	Pr > |t|	<.0001
Sign	M	12	Pr >= |M|	<.0001
Signed Rank	S	150	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.30
99%	0.30
95%	0.10
90%	0.05
75% Q3	0.00
50% Median	0.00
25% Q1	0.00
10%	0.00
5%	0.00
1%	0.00
0% Min	0.00

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
0	125	0.1	118
0	124	0.2	30
0	123	0.2	119
0	122	0.3	19
0	121	0.3	108

Distribution and Probability Plot for Ave_Snowfall
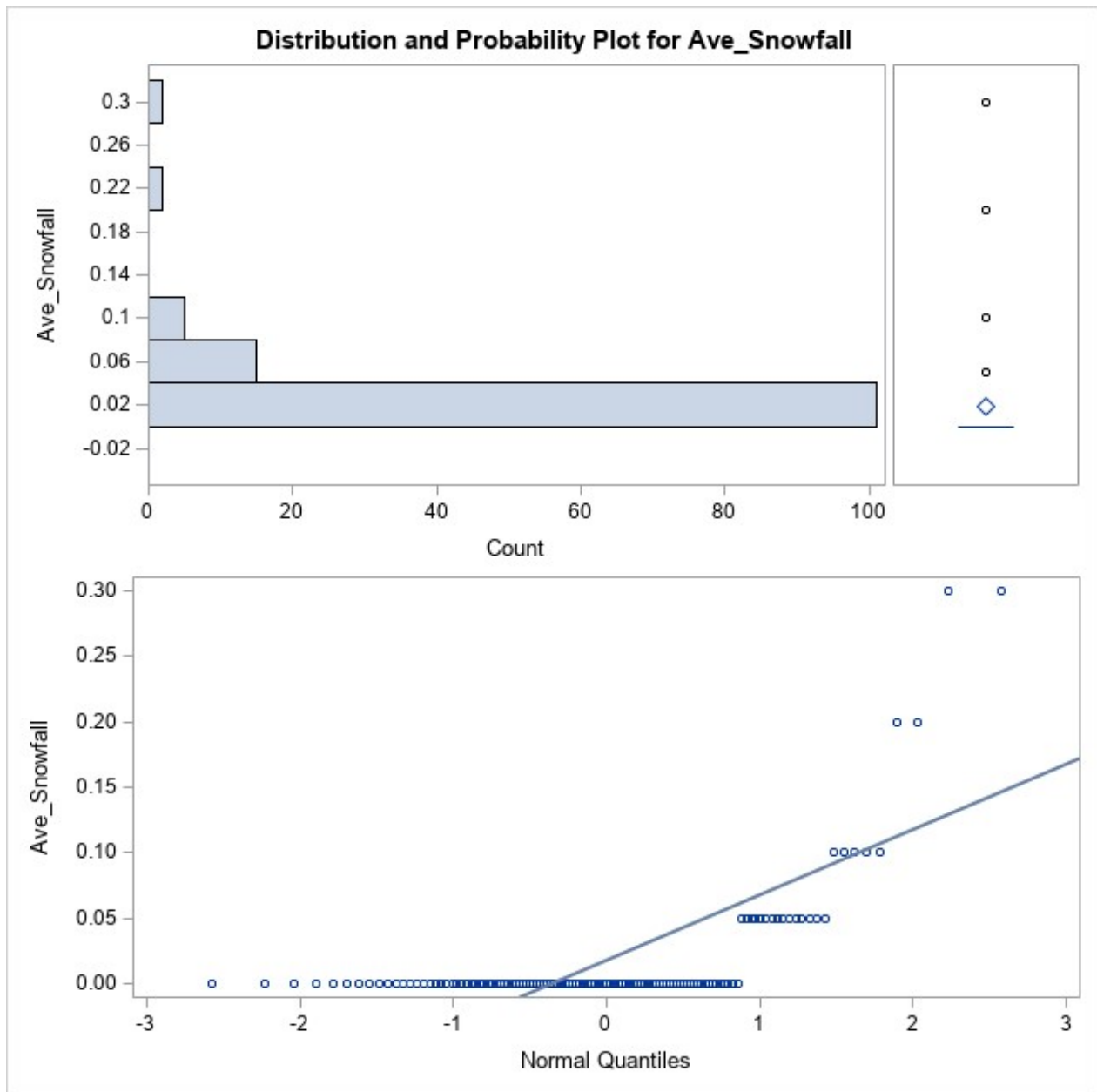
The SAS System

The UNIVARIATE Procedure
Variable: Ave_snow_depth

Moments			
N	125	Sum Weights	125
Mean	0	Sum Observations	0
Std Deviation	0	Variance	0
Skewness	.	Kurtosis	.
Uncorrected SS	0	Corrected SS	0
Coeff Variation	.	Std Error Mean	0

Basic Statistical Measures			
Location		Variability	
Mean	0	Std Deviation	0
Median	0	Variance	0
Mode	0	Range	0
		Interquartile Range	0

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	.	Pr > |t|	.
Sign	M	.	Pr >= |M|	.
Signed Rank	S	.	Pr >= |S|	.

Quantiles (Definition 5)	
Level	Quantile
100% Max	0
99%	0
95%	0
90%	0
75% Q3	0
50% Median	0
25% Q1	0
10%	0
5%	0
1%	0
0% Min	0

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
0	125	0	121
0	124	0	122
0	123	0	123
0	122	0	124
0	121	0	125

The SAS System

The UNIVARIATE Procedure
Variable: Ave_heating_degree_day

Moments			
N	125	Sum Weights	125
Mean	8.4176	Sum Observations	1052.2
Std Deviation	9.04240961	Variance	81.7651716
Skewness	0.68290559	Kurtosis	-0.8917524
Uncorrected SS	18995.88	Corrected SS	10138.8813
Coeff Variation	107.422657	Std Error Mean	0.8087777

Basic Statistical Measures			
Location		Variability	
Mean	8.417600	Std Deviation	9.04241
Median	4.900000	Variance	81.76517
Mode	0.000000	Range	29.80000
		Interquartile Range	16.60000

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	10.4078	Pr > |t|	<.0001
Sign	M	44.5	Pr >= |M|	<.0001
Signed Rank	S	2002.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	29.8
99%	28.1
95%	25.5
90%	21.3
75% Q3	16.6
50% Median	4.9
25% Q1	0.0
10%	0.0
5%	0.0
1%	0.0
0% Min	0.0

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
0	125	27.1	107
0	124	27.3	118
0	114	27.9	30
0	113	28.1	71
0	112	29.8	108

Distribution and Probability Plot for Ave_heating_degree_day
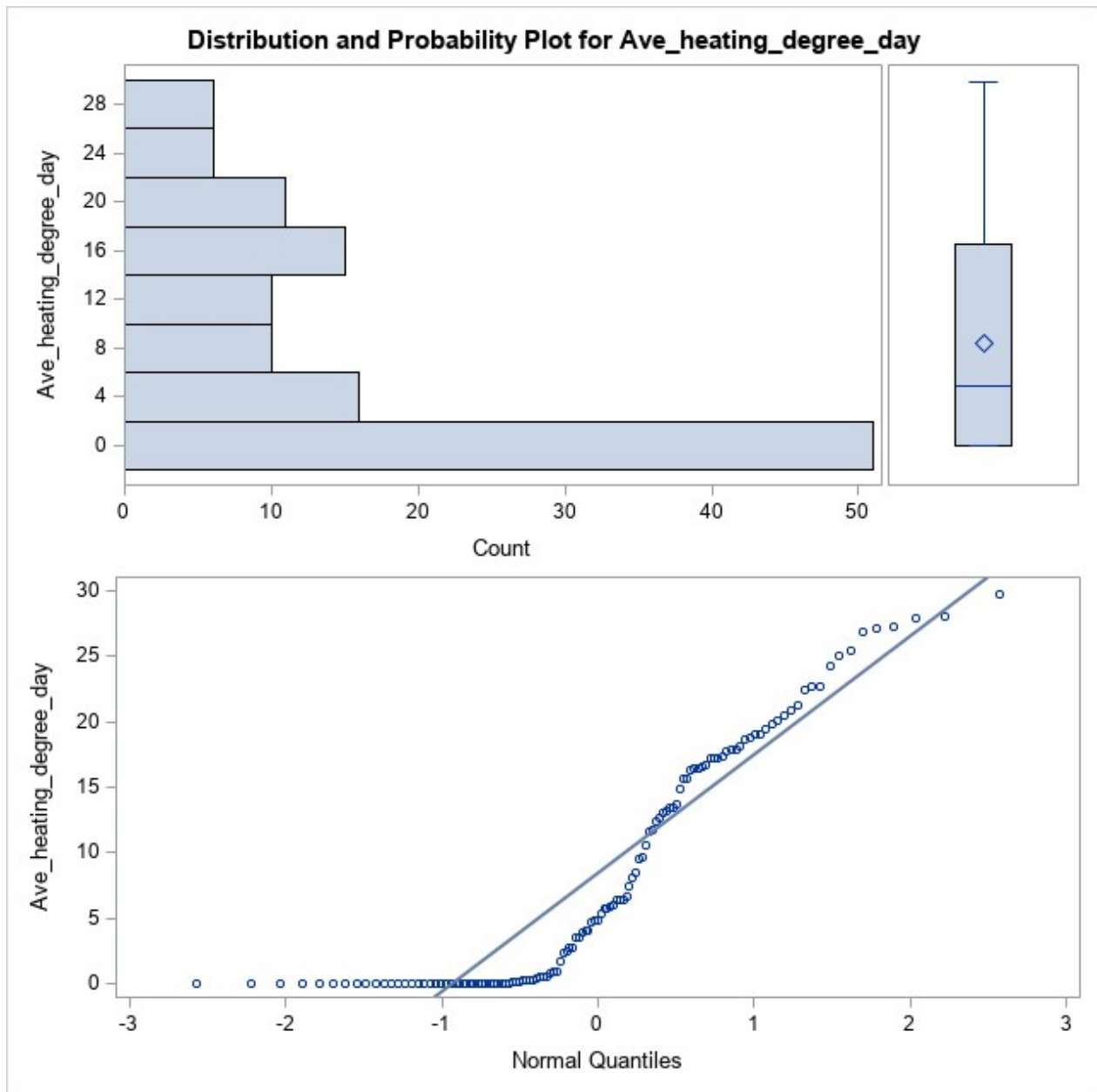
The SAS System

The UNIVARIATE Procedure
Variable: Ave_Cooling_Degree_Day

Moments			
N	125	Sum Weights	125
Mean	4.7968	Sum Observations	599.6
Std Deviation	5.65149047	Variance	31.9393445
Skewness	0.76753903	Kurtosis	-0.9864624
Uncorrected SS	6836.64	Corrected SS	3960.47872
Coeff Variation	117.81793	Std Error Mean	0.50548467

Basic Statistical Measures			
Location		Variability	
Mean	4.796800	Std Deviation	5.65149
Median	1.300000	Variance	31.93934
Mode	0.000000	Range	16.80000
		Interquartile Range	9.90000

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	9.489506	Pr > |t|	<.0001
Sign	M	43.5	Pr >= |M|	<.0001
Signed Rank	S	1914	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	16.8
99%	16.5
95%	15.2
90%	13.9
75% Q3	9.9
50% Median	1.3
25% Q1	0.0
10%	0.0
5%	0.0
1%	0.0
0% Min	0.0

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
0	121	15.4	45
0	120	16.1	113
0	119	16.3	101
0	118	16.5	89
0	117	16.8	46

Distribution and Probability Plot for Ave_Cooling_Degree_Day
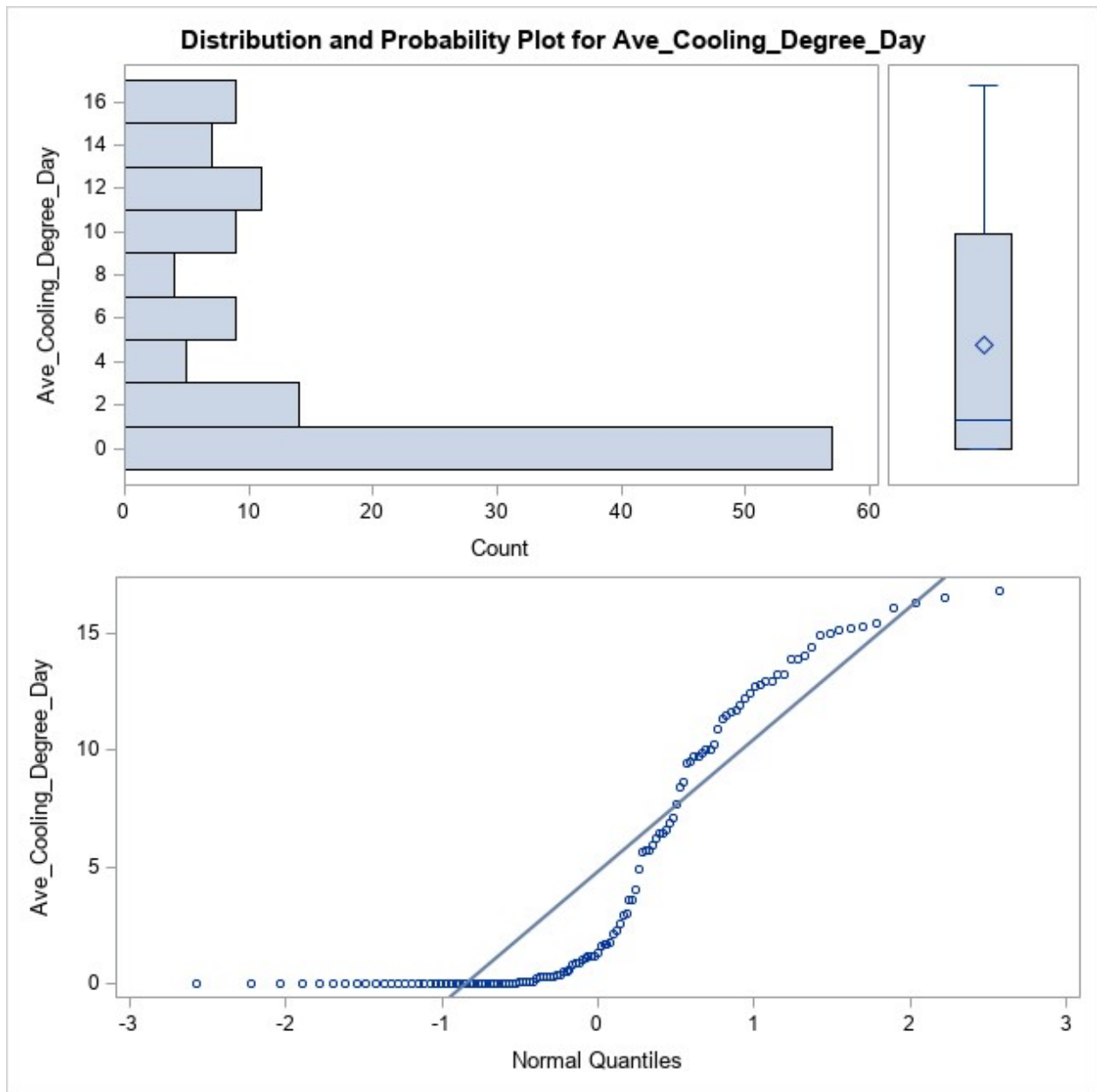
The SAS System

The UNIVARIATE Procedure
Variable: Hurrican_times_occurred

Moments			
N	125	Sum Weights	125
Mean	0.176	Sum Observations	22
Std Deviation	0.45903124	Variance	0.21070968
Skewness	2.67105766	Kurtosis	6.61685996
Uncorrected SS	30	Corrected SS	26.128
Coeff Variation	260.813203	Std Error Mean	0.041057

Basic Statistical Measures			
Location		Variability	
Mean	0.176000	Std Deviation	0.45903
Median	0.000000	Variance	0.21071
Mode	0.000000	Range	2.00000
		Interquartile Range	0

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	4.286723	Pr > |t|	<.0001
Sign	M	9	Pr >= |M|	<.0001
Signed Rank	S	85.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2
99%	2
95%	1
90%	1
75% Q3	0
50% Median	0
25% Q1	0
10%	0
5%	0
1%	0
0% Min	0

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
0	125	1	124
0	123	2	10
0	122	2	34
0	120	2	44
0	119	2	111

Distribution and Probability Plot for Hurrican_times_occurred
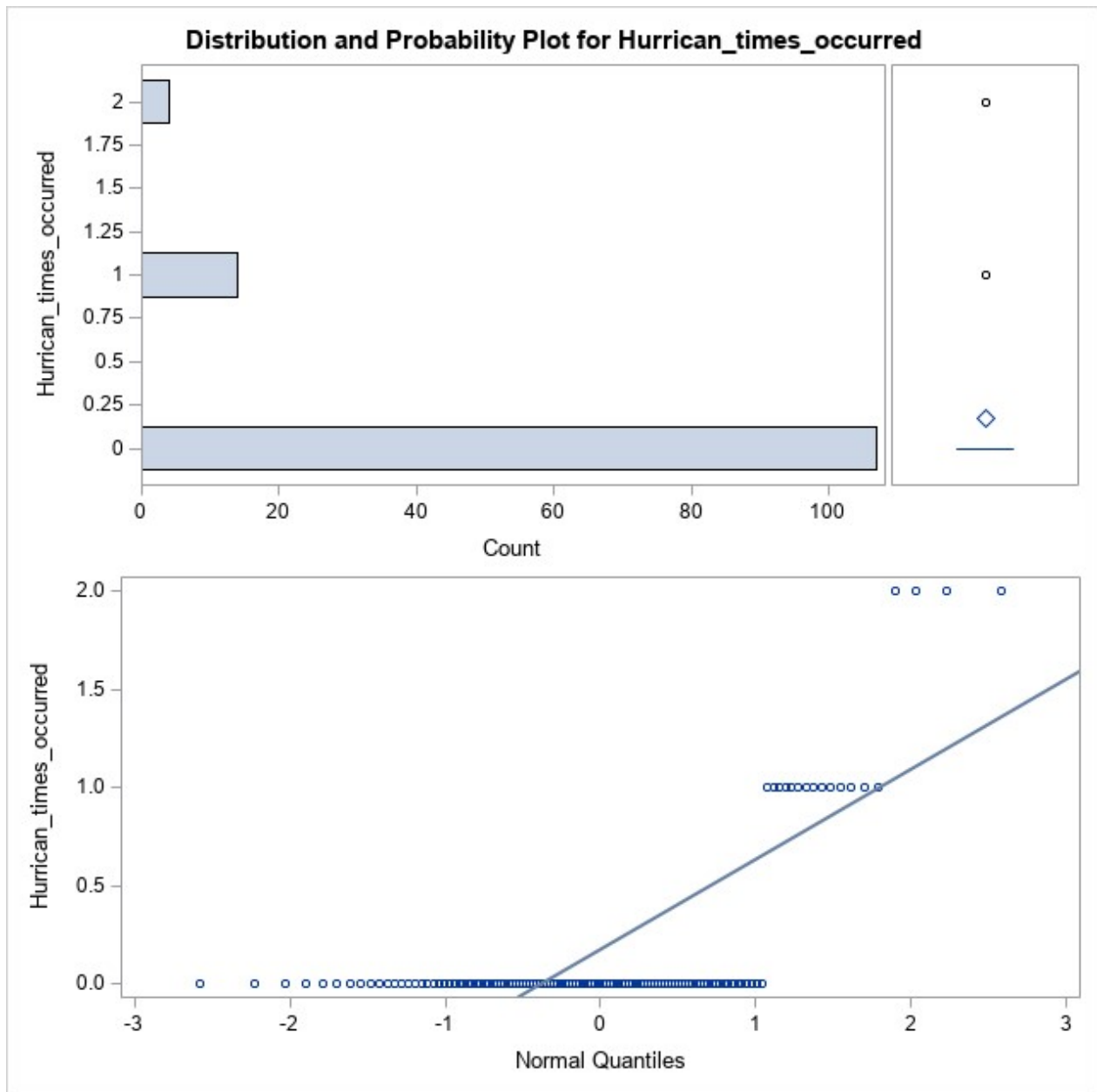
The SAS System

The UNIVARIATE Procedure
Variable: Daily_Dew_Point

Moments			
N	125	Sum Weights	125
Mean	49.5144	Sum Observations	6189.3
Std Deviation	15.0443576	Variance	226.332694
Skewness	-0.1598026	Kurtosis	-1.3467781
Uncorrected SS	334524.73	Corrected SS	28065.2541
Coeff Variation	30.3838026	Std Error Mean	1.34560825

Basic Statistical Measures			
Location		Variability	
Mean	49.51440	Std Deviation	15.04436
Median	49.10000	Variance	226.33269
Mode	65.30000	Range	50.80000
		Interquartile Range	28.70000

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	36.79704	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	71.6
99%	70.7
95%	69.7
90%	68.2
75% Q3	64.5
50% Median	49.1
25% Q1	35.8
10%	29.8
5%	25.4
1%	20.8
0% Min	20.8

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
20.8	108	69.8	77
20.8	71	69.9	36
23.1	119	70.1	22
23.3	118	70.7	45
23.3	30	71.6	46

Distribution and Probability Plot for Daily_Dew_Point
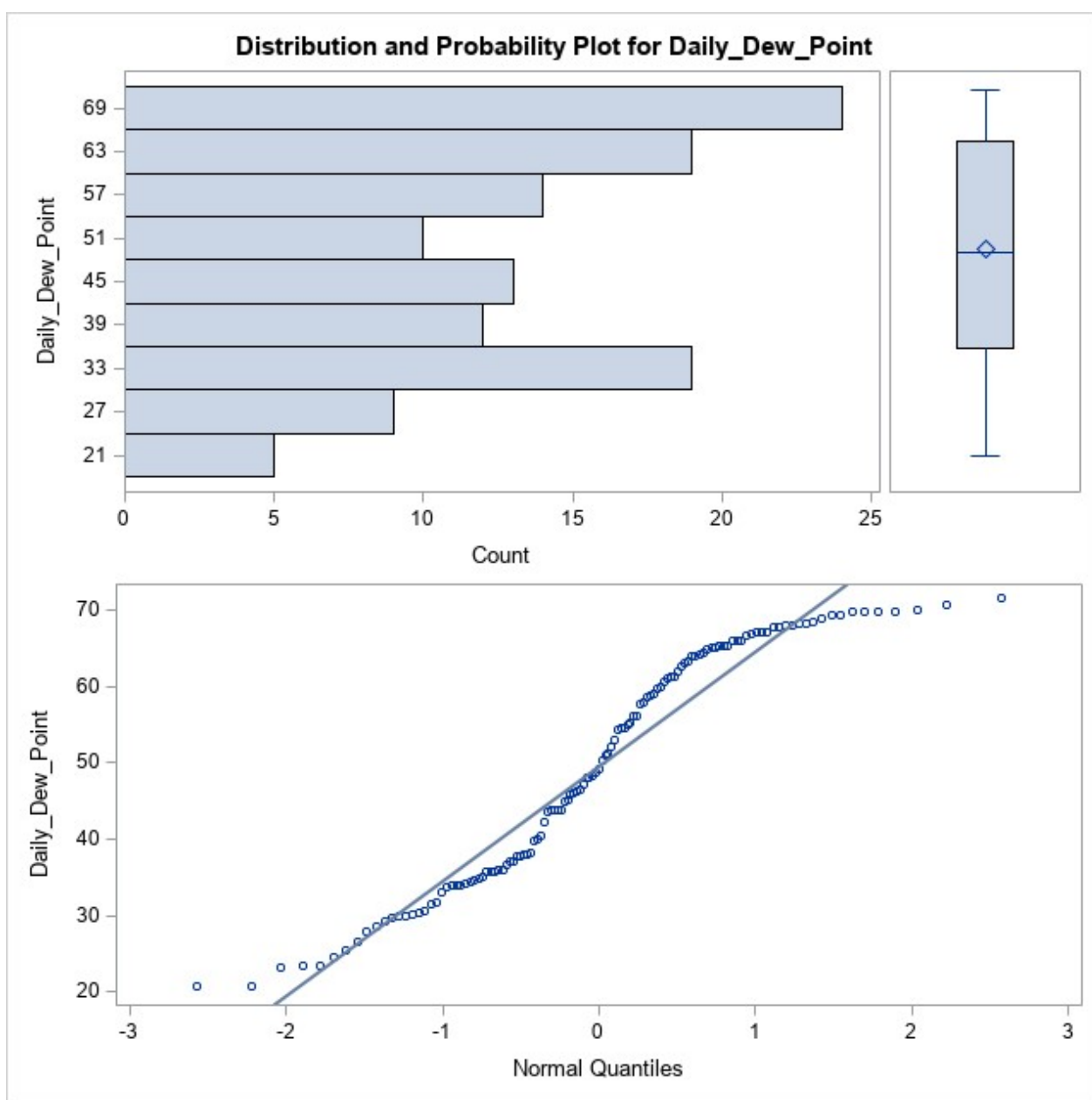
The SAS System

The UNIVARIATE Procedure
Variable: Sea_Level_Pressure

Moments			
N	125	Sum Weights	125
Mean	1017.8304	Sum Observations	127228.8
Std Deviation	2.57751518	Variance	6.64358452
Skewness	0.41762887	Kurtosis	-0.0356847
Uncorrected SS	129498164	Corrected SS	823.80448
Coeff Variation	0.25323622	Std Error Mean	0.23053997

Basic Statistical Measures			
Location		Variability	
Mean	1017.830	Std Deviation	2.57752
Median	1017.700	Variance	6.64358
Mode	1015.900	Range	12.80000
		Interquartile Range	3.70000

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	4414.985	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1025.0
99%	1024.7
95%	1022.2
90%	1021.4
75% Q3	1019.6
50% Median	1017.7
25% Q1	1015.9
10%	1014.8
5%	1014.3
1%	1012.2
0% Min	1012.2

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
1012.2	117	1022.9	54
1012.2	100	1023.3	96
1013.0	3	1023.9	73
1013.2	118	1024.7	29
1014.1	102	1025.0	30

Distribution and Probability Plot for Sea_Level_Pressure
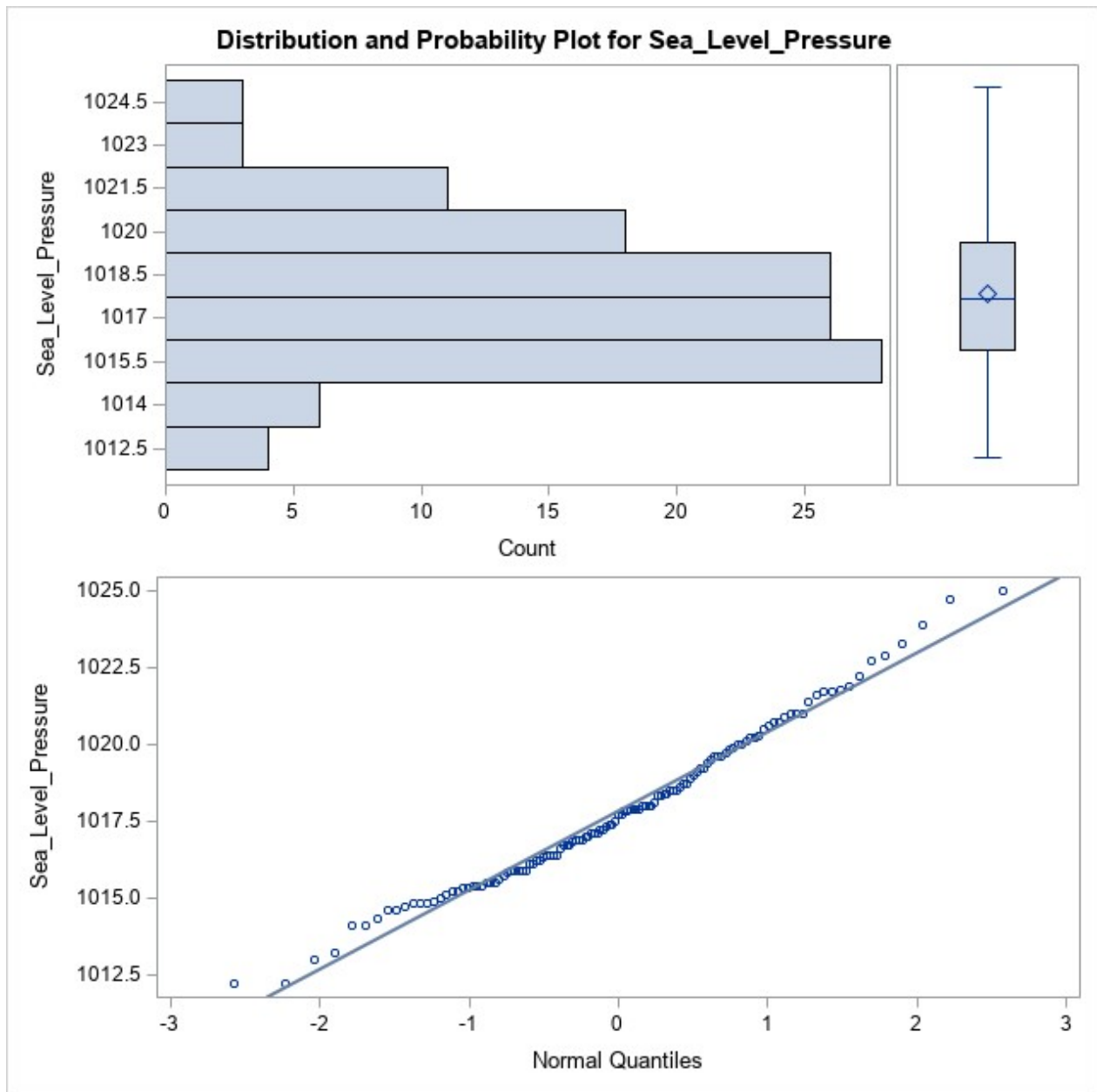
The SAS System

The UNIVARIATE Procedure
Variable: Daily_Visibility

Moments			
N	125	Sum Weights	125
Mean	46.84912	Sum Observations	5856.14
Std Deviation	420.915714	Variance	177170.038
Skewness	11.1800331	Kurtosis	124.99539
Uncorrected SS	22243439.7	Corrected SS	21969084.7
Coeff Variation	898.449562	Std Error Mean	37.6478459

Basic Statistical Measures			
Location		Variability	
Mean	46.84912	Std Deviation	420.91571
Median	9.42000	Variance	177170
Mode	10.00000	Range	4712
		Interquartile Range	0.81000

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	1.244404	Pr > |t|	0.2157
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4715.14
99%	16.23
95%	12.14
90%	10.62
75% Q3	9.82
50% Median	9.42
25% Q1	9.01
10%	7.00
5%	5.70
1%	3.25
0% Min	3.00

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
3.00	66	12.63	20
3.25	62	12.99	5
3.33	69	13.44	38
4.00	54	16.23	17
5.00	52	4715.14	18

Distribution and Probability Plot for Daily_Visibility
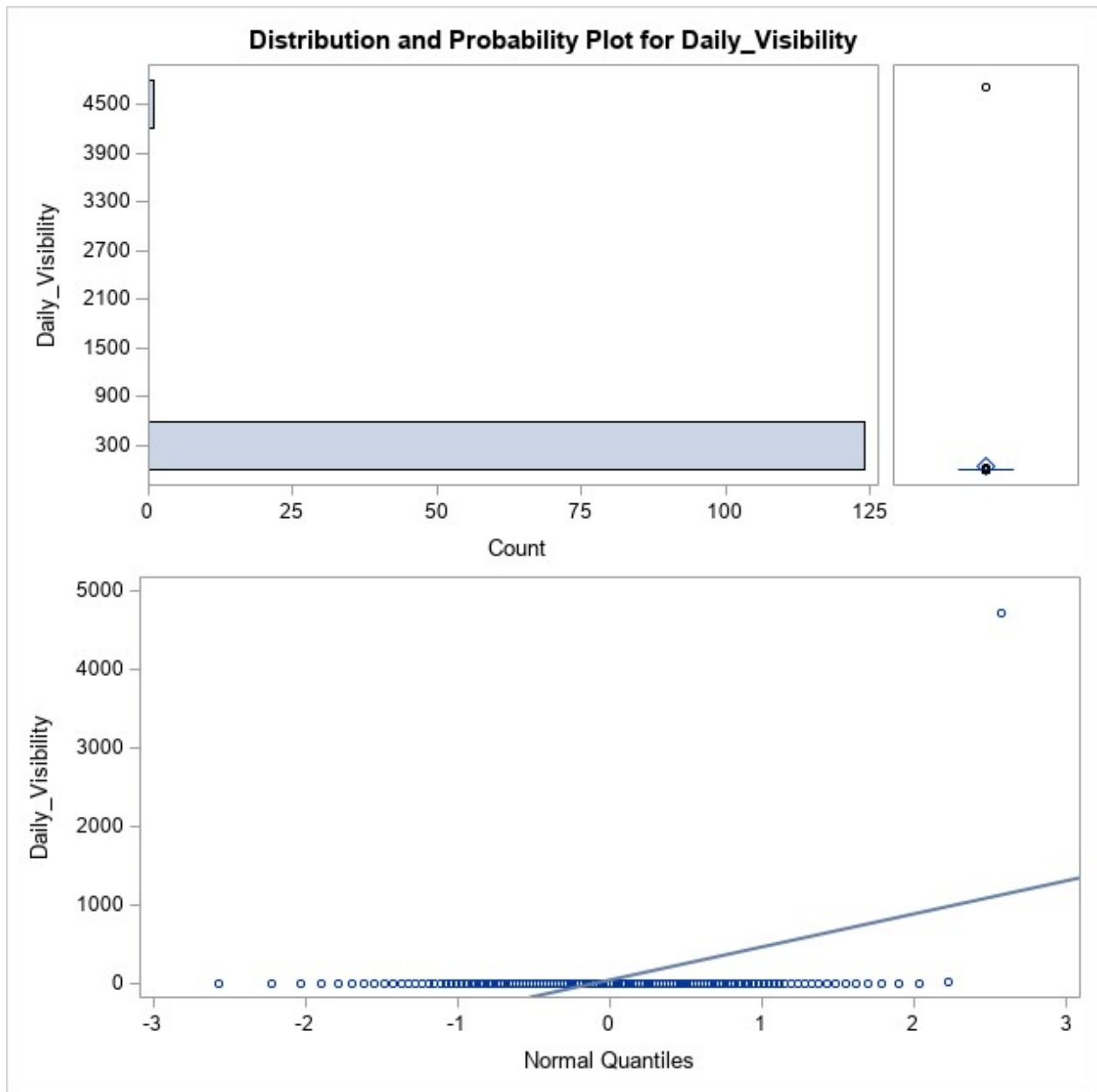
The SAS System

The UNIVARIATE Procedure
Variable: Daily_Wind_Speed

Moments			
N	125	Sum Weights	125
Mean	9.2176	Sum Observations	1152.2
Std Deviation	14.3454728	Variance	205.792591
Skewness	3.919992	Kurtosis	13.7911112
Uncorrected SS	36138.8	Corrected SS	25518.2813
Coeff Variation	155.631323	Std Error Mean	1.2830981

Basic Statistical Measures			
Location		Variability	
Mean	9.217600	Std Deviation	14.34547
Median	5.700000	Variance	205.79259
Mode	5.200000	Range	70.90000
		Interquartile Range	1.50000

Note: The mode displayed is the smallest of 3 modes with a count of 8.

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	7.183862	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	75.0
99%	73.0
95%	61.0
90%	7.7
75% Q3	6.6
50% Median	5.7
25% Q1	5.1
10%	4.6
5%	4.3
1%	4.2

0% Min	4.1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.1	66	64	68
4.2	109	68	41
4.2	75	68	67
4.2	56	73	37
4.3	87	75	54

Distribution and Probability Plot for Daily_Wind_Speed
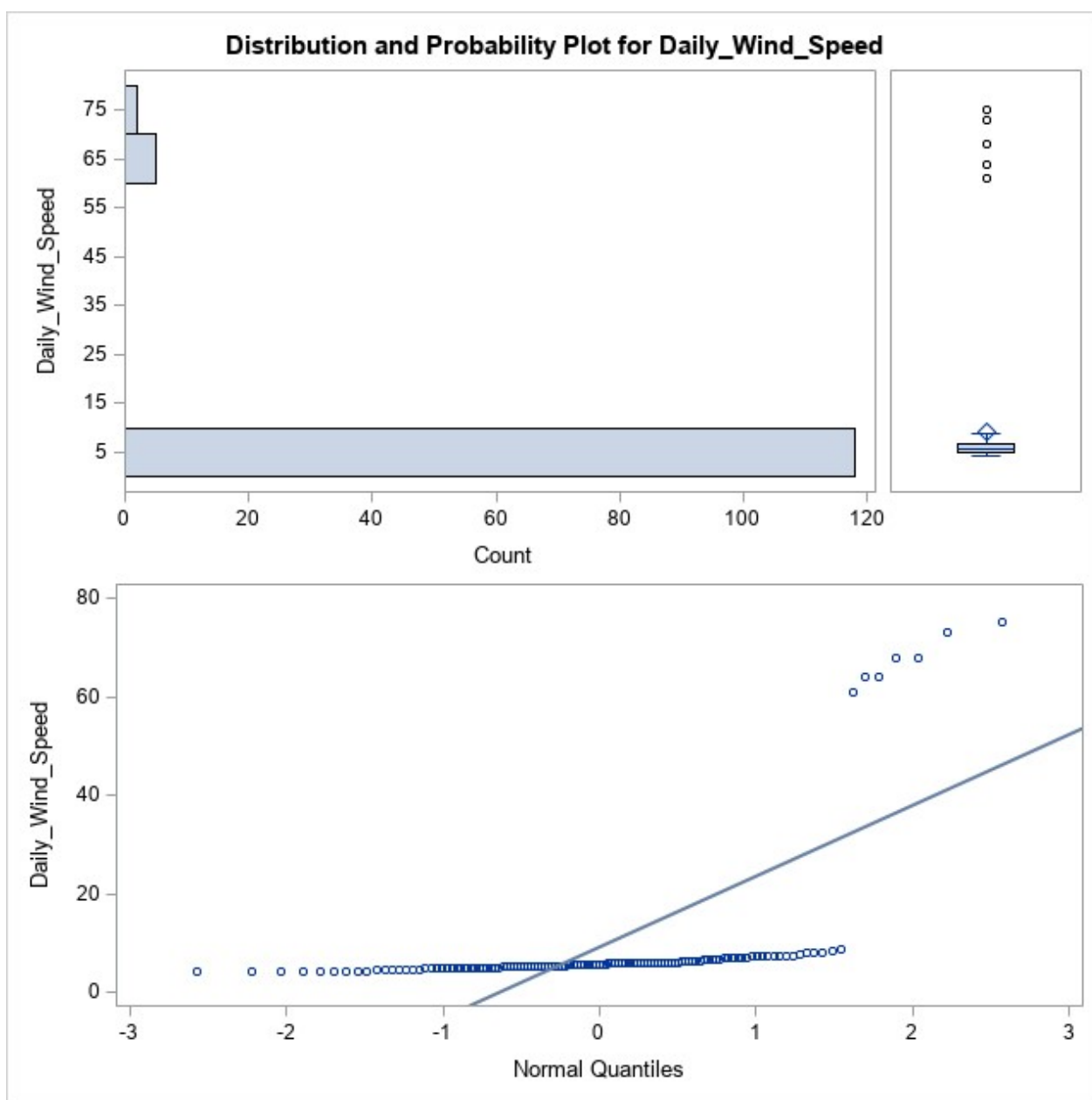
The SAS System

The UNIVARIATE Procedure
Variable: Daily_Humidity

Moments			
N	125	Sum Weights	125
Mean	177.44	Sum Observations	22180
Std Deviation	449.408561	Variance	201968.055
Skewness	3.90780747	Kurtosis	13.4908375
Uncorrected SS	28979658	Corrected SS	25044038.8
Coeff Variation	253.273535	Std Error Mean	40.1963237

Basic Statistical Measures			
Location		Variability	
Mean	177.4400	Std Deviation	449.40856
Median	70.0000	Variance	201968
Mode	62.0000	Range	1965
		Interquartile Range	12.00000

Note: The mode displayed is the smallest of 2 modes with a count of 9.

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	4.414334	Pr > |t|	<.0001
Sign	M	62.5	Pr >= |M|	<.0001
Signed Rank	S	3937.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2017
99%	2016
95%	2014
90%	78
75% Q3	75
50% Median	70
25% Q1	63
10%	60
5%	57
1%	52

0% Min	52

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
52	40	2014	68
52	39	2015	54
55	106	2015	61
55	81	2016	41
56	116	2017	37

Distribution and Probability Plot for Daily_Humidity