

A P P E N D I X B

COMPARISON OF 1984 AND 1985 DATA

DO 012567
CONFIDENTIAL

TABLE 15
MEAN VALUES FOR EXPOSURE BY JOB CATEGORY
FOR 1984 AND 1985

JCODE	GROUP	N	MEAN
BOARDMAN/OFFICE	1984	4	0.041588
BOARDMAN/OFFICE	1985	4	0.033227
BRINE TREATING	1984	12	0.203593
CAUSTIC OPERATOR	1984	6	0.157635
CAUSTIC OPERATOR	1985	3	0.038156
CELL CREW	1984	12	0.104311
CELL CREW	1985	4	0.130849
CELL OPERATOR	1984	12	0.322365
CELL OPERATOR	1985	4	0.344599
CONTROL	1984	5	0.077614
CONTROL	1985	6	0.054484
ENGINEER	1984	10	0.031696
ENGINEER	1985	10	0.061679
LABORATORY	1984	9	0.027425
LABORATORY	1985	4	0.054874
LIQUEFACTION	1984	12	0.197625
LIQUEFACTION	1985	3	0.048838
POWER OPERATOR	1984	7	0.100266
PREV MAINT.	1984	6	0.273063
PREV MAINT.	1985	11	0.099874
SHIFT SUPERVISOR	1984	11	0.116477
SHIFT SUPERVISOR	1985	4	0.069215
TANKCAR LOADING	1984	2	0.291981
TANKCAR LOADING	1985	3	0.087429

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TABLE 18
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=BOARDMAN/OFFICE YEAR=1984

UNIVARIATE

VARIABLE=TOP1

MOMENTS

N	4	SUM WGTS	4
MEAN	0.0415876	SUM	0.16635
STD DEV	0.0270778	VARIANCE	.000733208
SKWNESS	-0.579153	KURTOSIS	-1.93116
USS	0.00911773	CSS	0.00219962
CV	65.1103	STD MEAN	0.0135389
T:MEAN=0	3.07171	PROB> T	0.054489
SGN RANK	5	PROB> S	0.100348
NUM ^= 0	4		
W:NORMAL	0.942323	PROB<W	0.556

QUANTILES(DEF=4)

100% MAX	0.0675167	99%	0.0675166
75% Q3	0.0653212	95%	0.0675166
50% MED	0.0455716	90%	0.0675166
25% Q1	0.0138699	10%	0.00769047
0% MIN	0.00769048	5%	0.00769047
		1%	0.00769047
RANGE	0.0598262		
Q3-Q1	0.0514512		
MODE	0.00769047		

EXTREMES

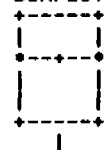
LOWEST	HIGHEST
0.00769048	0.00769048
0.0324083	0.00769048
0.0587348	0.0324083
0.0675167	0.0587348
	0.0675167

STEM LEAF #

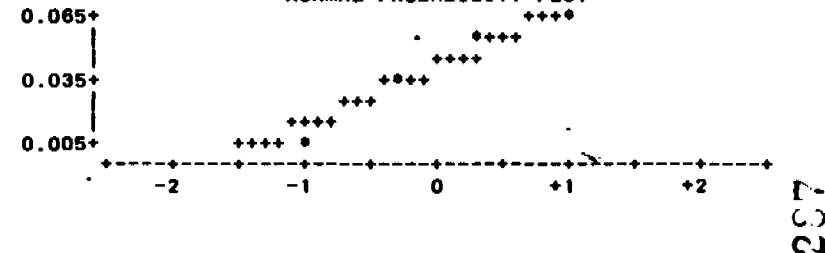
6 8	1
5 9	1
4	
3 2	1
2	
1	
0 8	1

MULTIPLY STEM,LEAF BY 10**-02

BOXPLOT



NORMAL PROBABILITY PLOT



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TABLE 18
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=BOARDMAN/OFFICE YEAR=1985

UNIVARIATE

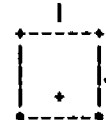
VARIABLE=TOP1

MOMENTS			
N	4	SUM WGTs	4
MEAN	0.033227	SUM	0.132908
STD DEV	0.0499664	VARIANCE	0.00249664
SKEWNESS	1.99684	KURTOSIS	3.98945
USS	0.0119061	CSS	0.00748993
CV	150.379	STD MEAN	0.0249832
T:MEAN=0	1.32997	PROB> T	0.275601
SGN RANK	5	PROB> S	0.100348
NUM A=0	4		
W:NORMAL	0.651496	PROB<W	<.01

STEM	LEAF	#
10	8	1
8		
8		
4		
2		
0	780	3

MULTIPLY STEM.LEAF BY 10** -02

BOXPLOT

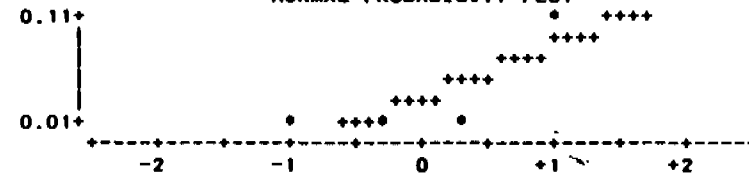


QUANTILES(DEF=4)			
100% MAX	0.108157	99%	0.108157
75% Q3	0.0835343	95%	0.108157
50% MED	0.00894697	90%	0.108157
25% Q1	0.00719967	10%	0.00685714
0% MIN	0.00685714	5%	0.00685714
		1%	0.00685714
RANGE	0.1013		
Q3-Q1	0.0763346		
MODE	0.00685714		

EXTREMES

LOWEST	HIGHEST
0.00685714	.
0.00822727	0.00885714
0.00966667	0.00822727
0.108157	0.00966667
.	0.108157

NORMAL PROBABILITY PLOT



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TABLE 16
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=BRINE TREATING YEAR=1984

UNIVARIATE

VARIABLE=TOP1

MOMENTS			
N	12	SUM WGTS	12
MEAN	0.203593	SUM	2.44312
STD DEV	0.15108	VARIANCE	0.022825
SKEWNESS	0.578438	KURTOSIS	-1.33524
USS	0.748477	CSS	0.251075
CV	74.2066	STD MEAN	0.0436129
T: MEAN=0	4.66818	PROB> T	.000684559
SGN RANK	39	PROB> S	0.00252617
NUM ^= 0	12		
W: NORMAL	0.864359	PROB<W	0.061

STEM	LEAF	#
4	44	2
3	47	2
2		
1	3489	4
0	4477	4

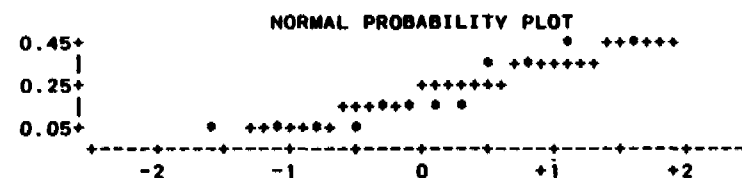
MULTIPLY STEM, LEAF BY 10**+01

BOXPLOT

QUANTILES(DEF=4)			
100% MAX	0.437482	99%	0.437482
75% Q3	0.360404	95%	0.437482
50% MED	0.157844	90%	0.436742
25% Q1	0.0682943	10%	0.0435122
0% MIN	0.0431667	5%	0.0431667
		1%	0.0431667
RANGE	0.394316		
Q3-Q1	0.292109		
MODE	0.0431667		

EXTREMES

LOWEST	HIGHEST
0.0431667	0.194167
0.0443185	0.33718
0.0672569	0.368145
0.0714066	0.435014
0.129292	0.437482



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TABLE 16
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=CAUSTIC OPERATOR YEAR=1984

UNIVARIATE

VARIABLE=TOP1

MOMENTS			
N	8	SUM WGTs	8
MEAN	0.157835	SUM	0.945811
STD DEV	0.187052	VARIANCE	0.0349885
SKEWNESS	1.82972	KURTOSIS	3.36531
USS	0.324036	CSS	0.174943
CV	118.662	STD MEAN	0.0783638
T:MEAN=0	2.08427	PROB> T	0.0939221
SGN RANK	10.5	PROB> S	0.0380317
NUM A=0	6		
W:NORMAL	0.777798	PROB<W	0.043

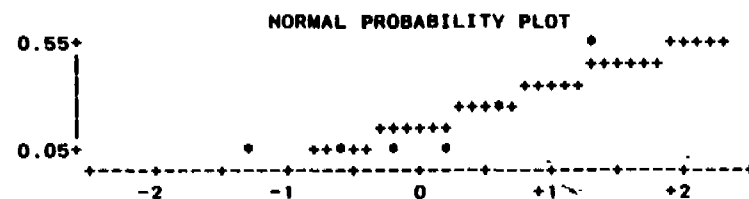
QUANTILES(DEF=4)			
100% MAX	0.513967	99%	0.513967
75% Q3	0.284485	95%	0.513967
50% MED	0.0876394	90%	0.513967
25% Q1	0.0271019	10%	0.0186574
0% MIN	0.0186574	5%	0.0186574
		1%	0.0186574
RANGE	0.495309		
Q3-Q1	0.257383		
MODE	0.0186574		

EXTREMES	
LOWEST	HIGHEST
0.0186574	0.0299167
0.0299167	0.085492
0.085492	0.0897868
0.0897868	0.207991
0.207991	0.513967

STEM	LEAF	#
5	1	1
4		
3		
2	1	1
1		
0	2399	4

MULTIPLY STEM.LEAF BY 10**-.01

BOXPLOT



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DO 012572
CONFIDENTIAL

TABLE 16
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=CAUSTIC OPERATOR YEAR=1985

UNIVARIATE

VARIABLE=TOP1

MOMENTS

N	3	SUM WGT5	3
MEAN	0.0381564	SUM	0.114469
STD DEV	0.0455555	VARIANCE	0.00207531
SKEWNESS	1.70241	KURTOSIS	.
USS	0.00851834	CSS	0.00415062
CV	119.392	STD MEAN	0.0263015
T:MEAN=0	1.45073	PROB> T	0.283939
SGN RANK	3	PROB> S	0.181449
NUM A=0	3		
W:NORMAL	0.801429	PROB<W	0.129

QUANTILES(DEF=4)

100% MAX	0.0906591	99%	0.0906591
75% Q3	0.0906591	95%	0.0906591
50% MED	0.0147167	90%	0.0906591
25% Q1	0.00909333	10%	0.00909333
0% MIN	0.00909333	5%	0.00909333
		1%	0.00909333
RANGE	0.0815658		
Q3-Q1	0.0815657		
MODE	0.00909333		

EXTREMES

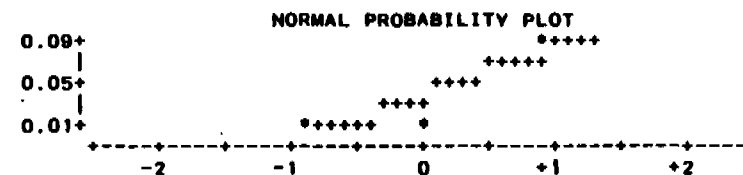
	LOWEST	HIGHEST
	0.00909333	.
	0.0147167	.
	0.0906591	0.00909333
	.	0.0147167
	.	0.0906591

STEM LEAF #

8 1	1
6	
4	
2	
0 95	2

MULTIPLY STEM.LEAF BY 10**-02

BOXPLOT



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TABLE 16
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=CELL CREW YEAR=1984

UNIVARIATE

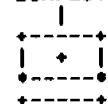
VARIABLE=TOP1

MOMENTS			
N	12	SUM WGTs	12
MEAN	0.104311	SUM	1.25173
STD DEV	0.0736007	VARIANCE	0.00541706
SKEWNESS	0.239398	KURTOSIS	-1.913
USS	0.190157	CSS	0.0595876
CV	70.5588	STD MEAN	0.0212467
T:MEAN=0	4.90952	PROB> T	0.00046453
SGN RANK	39	PROB> S	0.00252617
NUM A= 0	12		
W: NORMAL	0.844378	PROB<W	0.036

STEM	LEAF	#
2	00	2
1	688	3
1		
0	99	2
0	23444	5

MULTIPLY STEM, LEAF BY 10** -01

BOXPLOT



QUANTILES(DEF=4)			
100% MAX	0.203699	99%	0.203699
75% Q3	0.178852	95%	0.203699
50% MED	0.0870606	90%	0.202719
25% Q1	0.0361798	10%	0.0223821
0% MIN	0.017822	5%	0.017822
		1%	0.017822
RANGE	0.185877		
Q3-Q1	0.142672		
MODE	0.017822		

EXTREMES	
LOWEST	HIGHEST
0.017822	0.155396
0.0330222	0.177783
0.0360436	0.179209
0.0365882	0.200433
0.0376167	0.203699

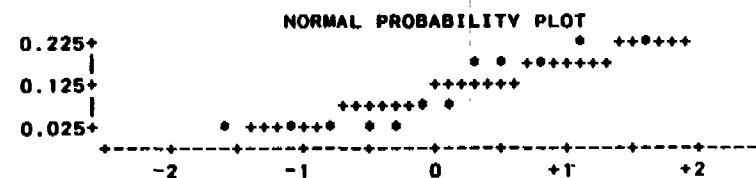


TABLE 18
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=CELL CREW YEAR=1985

UNIVARIATE

VARIABLE=TOP1

MOMENTS			
N	4	SUM WGTs	4
MEAN	0.130849	SUM	0.523396
STD DEV	0.0827459	VARIANCE	0.00684689
SKEWNESS	-0.677378	KURTOSIS	-1.96785
USS	0.0890266	CSS	0.0205407
CV	63.2377	STD MEAN	0.041373
T:MEAN=0	3.16267	PROB> T	0.0507664
SGN RANK	5	PROB> S	0.100348
NUM ^= 0	4		
W:NORMAL	0.912397	PROB<W	0.437

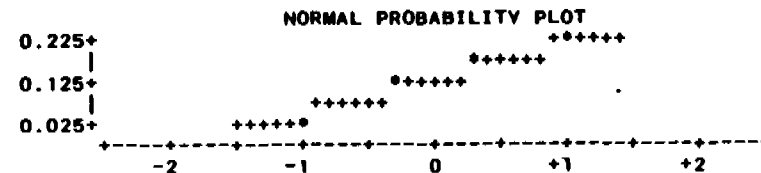
STEM	LEAF	#
2	0	1
1	9	1
1	0	1
0		
0	3	1

MULTIPLY STEM, LEAF BY 10** -01

BOXPLOT

QUANTILES(DEF=4)			
100% MAX	0.204357	99%	0.204357
75% Q3	0.200584	95%	0.204357
50% MED	0.146515	90%	0.204357
25% Q1	0.0454485	10%	0.0260098
0% MIN	0.0260098	5%	0.0260098
		1%	0.0260098
RANGE	0.178347		
Q3-Q1	0.155135		
MODE	0.0260098		

EXTREMES	
LOWEST	HIGHEST
0.0260098	.
0.103765	0.0260098
0.189265	0.103765
0.204357	0.189265
.	0.204357



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TABLE 16
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=CELL OPERATOR YEAR=1984

UNIVARIATE

VARIABLE=TOP1

MOMENTS			
N	12	SUM WGTs	12
MEAN	0.322365	SUM	3.86838
STD DEV	0.247806	VARIANCE	0.0614077
SKWENESS	0.286703	KURTOSIS	-1.4613
USS	1.92251	CSS	0.675484
CV	76.8712	STD MEAN	0.0715353
T:MEAN=0	4.50637	PROB> T	.000891808
SGN RANK	39	PROB> S	0.00252617
NUM ^= 0	12		
W:NORMAL	0.906031	PROB<W	0.254

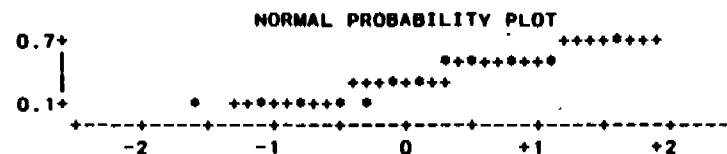
STEM	LEAF	#
6	04	2
4	726	3
2	73	2
0	36802	5

MULTIPLY STEM.LEAF BY 10**-01

BOXPLOT

QUANTILES(DEF=4)			
100% MAX	0.741473	99%	0.741473
75% Q3	0.546809	95%	0.741473
50% MED	0.301367	90%	0.698284
25% Q1	0.0821556	10%	0.037732
0% MIN	0.0270833	5%	0.0270833
		1%	0.0270833
RANGE	0.71439		
Q3-Q1	0.464653		
MODE	0.0270833		

EXTREMES	
LOWEST	HIGHEST
0.0270833	0.468053
0.0625789	0.518986
0.0754747	0.556083
0.102198	0.597511
0.116202	0.741473



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TABLE 16
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=CELL OPERATOR YEAR=1985

UNIVARIATE

VARIABLE=TOP1

MOMENTS			
N	4	SUM WGTs	4
MEAN	0.344599	SUM	1.3784
STD DEV	0.316584	VARIANCE	0.100225
SKWENESS	1.00518	KURTOSIS	1.93811
USS	0.77567	CSS	0.300676
CV	91.8703	STD MEAN	0.158292
T:MEAN=0	2.17698	PROB> T	0.117682
SGN RANK	5	PROB> S	0.100348
NUM A=0	4		
W:NORMAL	0.932898	PROB<W	0.494

STEM	LEAF	#
6	8	1
4		
2	62	2
0	2	1

MULTIPLY STEM,LEAF BY 10**-01

BOXPLOT

QUANTILES(DEF=4)			
100% MAX	0.779097	99%	0.779097
75% Q3	0.663446	95%	0.779097
50% MED	0.288656	90%	0.779097
25% Q1	0.0816947	10%	0.0219867
0% MIN	0.0219867	5%	0.0219867
		1%	0.0219867
RANGE	0.757111		
Q3-Q1	0.581751		
MODE	0.0219867		

EXTREMES	
LOWEST	HIGHEST
0.0219867	0.0219867
0.260819	0.260819
0.316493	0.316493
0.779097	0.779097

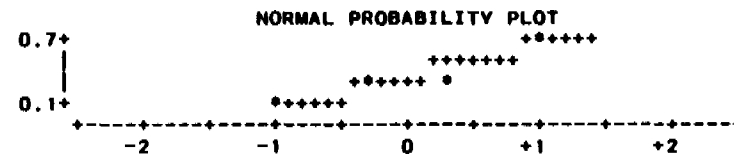


TABLE 16
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=CONTROL YEAR=1984

UNIVARIATE

VARIABLE=TOP1

MOMENTS			
N	5	SUM WGT5	5
MEAN	0.0776141	SUM	0.388071
STD DEV	0.0331247	VARIANCE	0.00109724
SKENNESS	-0.543349	KURTOSIS	-1.62825
USS	0.0345087	CSS	0.00438898
CV	42.6787	STD MEAN	0.0148138
T:MEAN=0	5.23931	PROB> T	0.00634325
SGN RANK	7.5	PROB> S	0.0590582
NUM A=0	5		
W:NORMAL	0.930101	PROB<W	0.524

STEM	LEAF	#
10	41	2
8	5	1
6		
4	6	1
2	2	1

MULTIPLY STEM,LEAF BY 10**-02

BOXPLOT

QUANTILES(DEF=4)			
100% MAX	0.111042	99%	0.111042
75% Q3	0.107413	95%	0.111042
50% MED	0.0852297	90%	0.111042
25% Q1	0.0440071	10%	0.0323925
0% MIN	0.0323925	5%	0.0323925
		1%	0.0323925
RANGE	0.0786491		
Q3-Q1	0.0634063		
MODE	0.0323925		

EXTREMES

LOWEST	HIGHEST
0.0323925	0.0323925
0.0556216	0.0556216
0.0852297	0.0852297
0.103785	0.103785
0.111042	0.111042

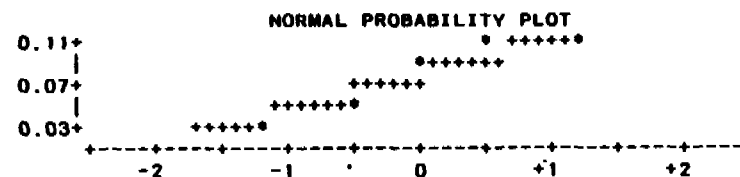


TABLE 18
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=CONTROL YEAR=1985

UNIVARIATE

VARIABLE=TOP1

MOMENTS			
N	6	SUM WGTs	6
MEAN	0.0544836	SUM	0.326902
STD DEV	0.0941262	VARIANCE	0.00885975
SKEWNESS	2.40438	KURTOSIS	5.81953
USS	0.0621095	CSS	0.0442988
CV	172.761	STD MEAN	0.0384269
T:MEAN=0	1.41785	PROB> T	0.215433
SGN RANK	10.5	PROB> S	0.0360317
NUM ^= 0	6		
W:NORMAL	0.572004	PROB<W	<.01

STEM	LEAF	#
2	5	1
2		
1		
1		
0		
0	11123	5

MULTIPLY STEM.LEAF BY 10**-01

BOXPLOT

0

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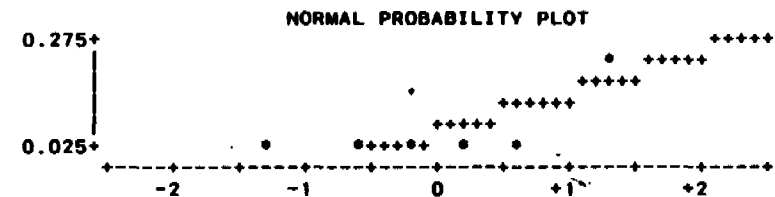
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QUANTILES(DEF=4)

100% MAX	0.245806	99%	0.245806
75% Q3	0.0856546	95%	0.245806
50% MED	0.0152315	90%	0.245806
25% Q1	0.00925356	10%	0.00903508
0% MIN	0.00903509	5%	0.00903508
		1%	0.00903508
RANGE	0.236771		
Q3-Q1	0.0764011		
MODE	0.00903508		

EXTREMES

LOWEST	HIGHEST
0.00903509	0.00932639
0.00932639	0.0125069
0.0125069	0.0179561
0.0179561	0.0322708
0.0322708	0.245806



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TABLE 16
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=ENGINEER YEAR=1984

UNIVARIATE

VARIABLE=TOP1

MOMENTS

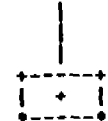
	10	SUM WGTS	10
N	0.0316964	SUM	0.316964
MEAN	0.0325588	VARIANCE	0.00106008
STD DEV	1.54325	KURTOSIS	1.55752
SKWNESS	0.0195873	CSS	0.00954068
USS	102.721	STD MEAN	0.010296
CV	3.07852	PROB> T	0.0131714
T:MEAN=0	27.5	PROB> S	0.00592154
SGN RANK	10		
NUM ^= 0	0.766193	PROB<W	<.01
W: NORMAL			

STEM LEAF #

10 3	1
8	
6 3	1
4 5	1
2 35	2
0 89001	5

MULTIPLY STEM.LEAF BY 10**-02

BOXPLOT

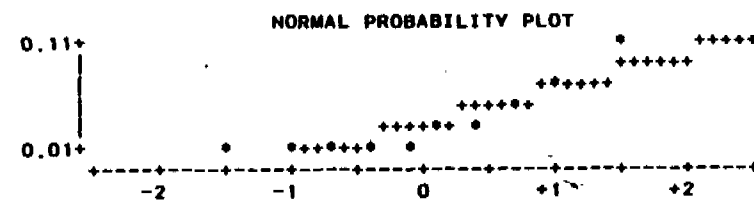


QUANTILES(DEF=4)

	0.103298	99%	0.103298
100% MAX	0.0517198	95%	0.103298
75% Q3	0.0169583	90%	0.100243
50% MED	0.00867005	10%	0.00792933
25% Q1	0.00778571	5%	0.00778571
0% MIN	0.0955119	1%	0.00778571
RANGE	0.0420498		
Q3-Q1	0.00778571		
MODE			

EXTREMES

LOWEST	HIGHEST
0.00778571	0.022625
0.00922185	0.025303
0.00981944	0.0447083
0.0101574	0.0727544
0.0112917	0.103298



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TABLE 16
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=ENGINEER YEAR=1985

UNIVARIATE

VARIABLE=TOP1

MOMENTS

	10	SUM WGTs	10
N			
MEAN	0.0616787	SUM	0.616787
STD DEV	0.0758217	VARIANCE	0.00574894
SKEWNESS	1.10816	KURTOSIS	-0.0643171
USS	0.089783	CSS	0.0517404
CV	122.93	STD MEAN	0.0239769
T:MEAN=0	2.57242	PROB> T	0.0300684
SGN RANK	27.5	PROB> S	0.00592154
NUM A=0	10		
W:NORMAL	0.79741	PROB<W	0.017

QUANTILES(DEF=4)

	0.210095	99%	0.210095
100% MAX			
75% Q3	0.118045	95%	0.210095
50% MED	0.0172189	90%	0.205432
25% Q1	0.00603711	10%	0.00134699
0% MIN	.000845238	5%	.000845238
		1%	.000845238
RANGE	0.20925		
Q3-Q1	0.112008		
MODE	.000845238		

EXTREMES

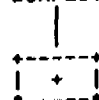
LOWEST	HIGHEST
.000845238	0.0251282
0.00586275	0.0866071
0.00609524	0.102905
0.00647436	0.163464
0.00930952	0.210095

STEM LEAF #

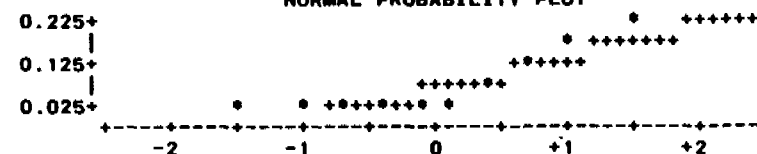
2 1	1
1 6	1
1 0	1
0 9	1
0 011113	6

MULTIPLY STEM.LEAF BY 10**-01

BOXPLOT



NORMAL PROBABILITY PLOT



DO 012581
CONFIDENTIAL

TABLE 16
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=LABORATORY YEAR=1984

UNIVARIATE

VARIABLE=TOP1

MOMENTS			
N	9	SUM WGTs	9
MEAN	0.0274253	SUM	0.246828
STD DEV	0.0400445	VARIANCE	0.00160357
SKEWNESS	2.55167	KURTOSIS	6.67709
USS	0.0195979	CSS	0.0128285
CV	146.013	STD MEAN	0.0133482
T:MEAN=0	2.05461	PROB> T	0.0739765
SGN RANK	22.5	PROB> S	0.00915169
NUM ^= 0	9		
W:NORMAL	0.59148	PROB<W	<.01

STEM	LEAF	#
12	9	1
10		
8		
6		
4	6	1
2		
0	6680245	7

MULTIPLY STEM.LEAF BY 10**-.02

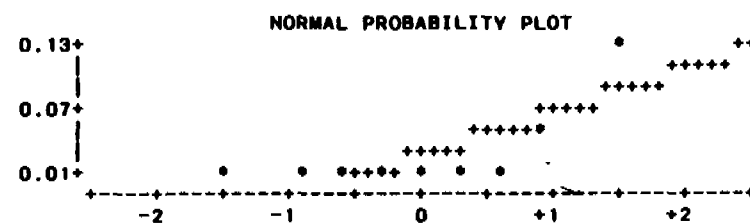
BOXPLOT



QUANTILES(DEF=4)			
100% MAX	0.12916	99%	0.12916
75% Q3	0.0305972	95%	0.12916
50% MED	0.012277	90%	0.12916
25% Q1	0.00699881	10%	0.0061875
0% MIN	0.0061875	5%	0.0061875
		1%	0.0061875
RANGE	0.122972		
Q3-Q1	0.0235984		
MODE	0.0061875		

EXTREMES

LOWEST	HIGHEST
0.0061875	0.012277
0.00628333	0.0139667
0.00771429	0.0154444
0.0100448	0.04575
0.012277	0.12916



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DO 012582
CONFIDENTIAL

TABLE 18
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=LABORATORY YEAR=1985

UNIVARIATE

VARIABLE=TOP1

MOMENTS

N	4	SUM WGTS	4
MEAN	0.0548742	SUM	0.219497
STD DEV	0.0555728	VARIANCE	0.00308834
SKEWNESS	0.21796	KURTOSIS	-4.75506
USS	0.0213097	CSS	0.00926501
CV	101.273	STD MEAN	0.0277864
T:MEAN=0	1.97486	PROB> T	0.14277
SGN RANK	5	PROB> S	0.100348
NUM Λ= 0	4		
W:NORMAL	0.833076	PROB<W	0.215

QUANTILES(DEF=4)

100% MAX	0.116052	99%	0.116052
75% Q3	0.109005	95%	0.116052
50% MED	0.0478547	90%	0.116052
25% Q1	0.00776258	10%	0.00773529
0% MIN	0.00773529	5%	0.00773529
		1%	0.00773529
RANGE	0.108317		
Q3-Q1	0.101243		
MODE	0.00773529		

EXTREMES

	LOWEST	HIGHEST
	0.00773529	
	0.00784444	0.00773529
	0.0878651	0.00784444
	0.116052	0.0878651
		0.116052

STEM LEAF #

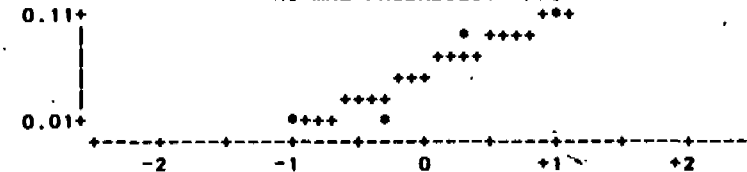
10 6	1
8 8	1
6	
4	
2	
0 88	2

MULTIPLY STEM, LEAF BY 10** -02

BOXPLOT



NORMAL PROBABILITY PLOT



DO 012583
CONFIDENTIAL

TABLE 18
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=LIQUEFACTION YEAR=1984

UNIVARIATE

VARIABLE=TOP1

MOMENTS			
N	12	SUM WGTs	12
MEAN	0.187625	SUM	2.3715
STD DEV	0.146455	VARIANCE	0.0214491
SKEWNESS	0.523571	KURTOSIS	-0.710206
USS	0.704607	CSS	0.23594
CV	74.1077	STD MEAN	0.042278
T:MEAN=0	4.67442	PROB> T	.000677666
SGN RANK	39	PROB> S	0.00252617
NUM A=0	12		
W:NORMAL	0.938785	PROB<W	0.472

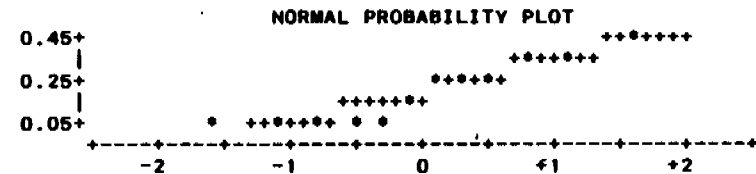
STEM	LEAF	#
4	8	1
3	36	2
2	268	3
1	4	1
0	15689	5

MULTIPLY STEM.LEAF BY 10**-01

BOXPLOT

QUANTILES(DEF=4)			
100% MAX	0.480065	99%	0.480065
75% Q3	0.320275	95%	0.480065
50% MED	0.177491	90%	0.443104
25% Q1	0.0699674	10%	0.0225271
0% MIN	0.00957447	5%	0.00957447
		1%	0.00957447
RANGE	0.470491		
Q3-Q1	0.250307		
MODE	0.00957447		

EXTREMES	
LOWEST	HIGHEST
0.00957447	0.259087
0.05275	0.282567
0.0649621	0.332844
0.0849833	0.356861
0.0928227	0.480065



DO 012584
CONFIDENTIAL

TABLE 18
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=LIQUEFACTION YEAR=1985

UNIVARIATE

VARIABLE=TOP1

MOMENTS

N	3	SUM WGTS	3
MEAN	0.0488382	SUM	0.148514
STD DEV	0.0399043	VARIANCE	0.00159236
SKEWNESS	0.462115	KURTOSIS	.
USS	0.0103402	CSS	0.00318471
CV	81.7073	STD MEAN	0.0230388
T; MEAN=0	2.11982	PROB> T	0.16813
SGN RANK	3	PROB> S	0.181449
NUM A= 0	3		
W; NORMAL	0.991898	PROB<W	0.837

STEM LEAF

8 1	1
6	
4 5	1
2	
0 1	1

MULTIPLY STEM LEAF BY 10**~02

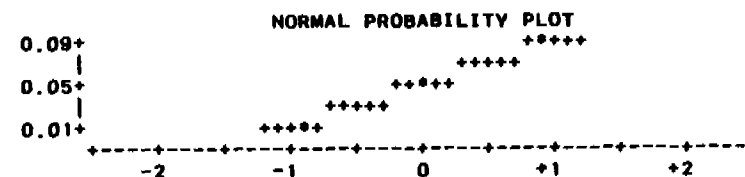
BOXPLOT

QUANTILES(DEF=4)

100% MAX	0.0906522	99%	0.0906522
75% Q3	0.0906522	95%	0.0906522
50% MED	0.0446956	90%	0.0906522
25% Q1	0.0111667	10%	0.0111667
0% MIN	0.0111667	5%	0.0111667
		1%	0.0111667
RANGE	0.0794855		
Q3-Q1	0.0794855		
MODE	0.0111667		

EXTREMES

LOWEST	HIGHEST
0.0111667	.
0.0446957	.
0.0906522	0.0111667
.	0.0446957
.	0.0906522



DO 012585
CONFIDENTIAL

TABLE 16
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=POWER OPERATOR YEAR=1984

UNIVARIATE

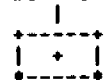
VARIABLE=TOP1

MOMENTS			
N	7	SUM WGTs	7
MEAN	0.100266	SUM	0.701861
STD DEV	0.150626	VARIANCE	0.0226883
SKEWNESS	1.54503	KURTOSIS	1.12435
USS	0.206502	CSS	0.13613
CV	150.227	STD MEAN	0.0569314
T:MEAN=0	1.76117	PROB> T	0.128687
SGN RANK	14	PROB> S	0.0224943
NUM A=0	7		
W:NORMAL	0.683822	PROB<W	<.01

STEM	LEAF	#
3	8	1
2	4	1
1		
0	11123	5

MULTIPLY STEM, LEAF BY 10**-01

BOXPLOT



QUANTILES(DEF=4)			
100% MAX	0.384934	99%	0.384934
75% Q3	0.238483	95%	0.384934
50% MED	0.0155263	90%	0.384934
25% Q1	0.0129242	10%	0.00849305
0% MIN	0.00849306	5%	0.00849305
		1%	0.00849305
RANGE	0.376441		
Q3-Q1	0.225559		
MODE	0.00849305		

EXTREMES

LOWEST	HIGHEST
0.00849306	0.01325
0.0129242	0.0155263
0.01325	0.02825
0.0155263	0.238483
0.02825	0.384934

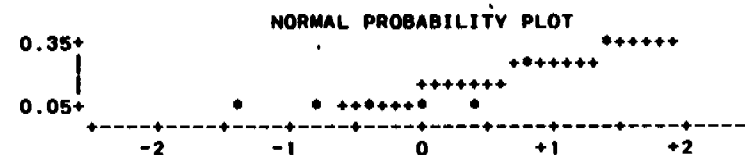


TABLE 16
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=PREV MAINT. YEAR=1984

UNIVARIATE

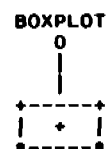
VARIABLE=TOP1

MOMENTS			
N	6	SUM WGTs	6
MEAN	0.273063	SUM	1.63838
STD DEV	0.421397	VARIANCE	0.177575
SKEWNESS	2.23983	KURTOSIS	5.1905
USS	1.33528	CSS	0.887878
CV	154.322	STD MEAN	0.172034
T:MEAN=0	1.58726	PROB> T	0.173317
SGN RANK	10.5	PROB> S	0.0360317
NUM ^= 0	6		
W: NORMAL	0.676068	PROB<W	<.01

STEM LEAF #

10 2	1
8	
6	
4	
2 3	1
0 1215	4

MULTIPLY STEM, LEAF BY 10**-.01



QUANTILES(DEF=4)			
100% MAX	1.11826	99%	1.11825
75% Q3	0.453759	95%	1.11825
50% MED	0.130132	90%	1.11825
25% Q1	0.0169189	10%	0.0095625
0% MIN	0.0095625	5%	0.0095625
		1%	0.0095625
RANGE	1.10869		
Q3-Q1	0.436842		
MODE	0.0095625		

EXTREMES

LOWEST	HIGHEST
0.0095625	0.0193684
0.0193684	0.11225
0.11225	0.148015
0.148015	0.232926
0.232926	1.11826

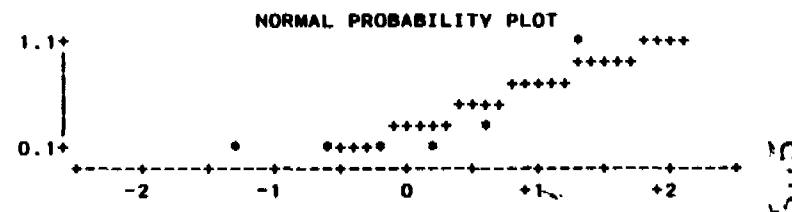


TABLE 16
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=PREV MAINT. YEAR=1985

UNIVARIATE

VARIABLE=TOP1

MOMENTS

N	11	SUM WGTs	11
MEAN	0.0998744	SUM	1.09862
STD DEV	0.107342	VARIANCE	0.0115224
SKWNESS	1.35568	KURTOSIS	1.05526
USS	0.224948	CSS	0.115224
CV	107.477	STD MEAN	0.032365
T:MEAN=0	3.08588	PROB> T	0.0115246
SGN RANK	33	PROB> S	0.00385729
NUM ^= 0	11		
W:NORMAL	0.826489	PROB<W	0.029

STEM	LEAF	#
3	3	1
2	6	1
2		
1		
1	14	2
0	88	2
0	11223	5

MULTIPLY STEM.LEAF BY 10**-01

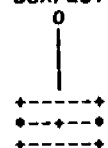
QUANTILES(DEF=4)

100% MAX	0.332202	99%	0.332202
75% Q3	0.142667	95%	0.332202
50% MED	0.0818542	90%	0.317342
25% Q1	0.0210385	10%	0.00659669
0% MIN	0.00610784	5%	0.00610784
		1%	0.00610784
RANGE	0.326095		
Q3-Q1	0.121628		
MODE	0.00610784		

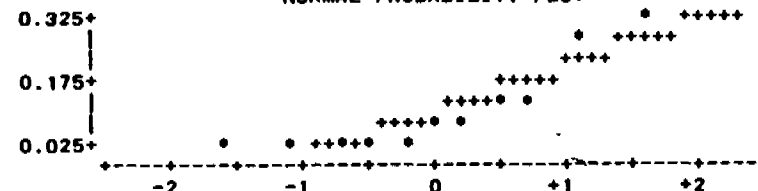
EXTREMES

	LOWEST	HIGHEST
	0.00610784	0.0846354
	0.00855208	0.108357
	0.0210385	0.142667
	0.0234314	0.257902
	0.0318712	0.332202

BOXPLOT



NORMAL PROBABILITY PLOT



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DO 012588
CONFIDENTIAL

TABLE 18
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=SHIFT SUPERVISOR YEAR=1984

UNIVARIATE

VARIABLE=TOP1

MOMENTS

N	11	SUM WGTS	11
MEAN	0.116477	SUM	1.28125
STD DEV	0.102736	VARIANCE	0.0105547
SKEWNESS	0.997123	KURTOSIS	0.134378
USS	0.254783	CSS	0.105547
CV	88.2031	STD MEAN	0.0309761
T:MEAN=0	3.76021	PROB> T	0.00372086
SGN RANK	33	PROB> S	0.00385729
NUM A= 0	11		
W:NORMAL	0.884222	PROB<W	0.151

STEM LEAF

3 2	1
2 8	1
2	
1 6	1
1 023	3
0 8	1
0 1134	4

MULTIPLY STEM.LEAF BY 10**+01

BOXPLOT



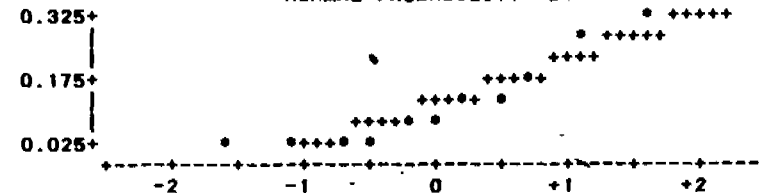
QUANTILES(DEF=4)

100% MAX	0.31625	99%	0.31625
75% Q3	0.164833	95%	0.31625
50% MED	0.0995877	90%	0.308605
25% Q1	0.0313681	10%	0.0102722
0% MIN	0.00915278	5%	0.00915278
		1%	0.00915278
RANGE	0.307097		
Q3-Q1	0.133465		
MODE	0.00915278		

EXTREMES

LOWEST	HIGHEST
0.00915278	0.117044
0.01475	0.131858
0.0313681	0.164833
0.0367656	0.278025
0.0816111	0.31625

NORMAL PROBABILITY PLOT



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TABLE 16
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=SHIFT SUPERVISOR YEAR=1985

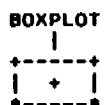
UNIVARIATE

VARIABLE=TOP1

MOMENTS			
N	4	SUM WGTS	4
MEAN	0.0692153	SUM	0.276861
STD DEV	0.0750606	VARIANCE	0.0056341
SKEWNESS	1.21163	KURTOSIS	0.753529
USS	0.0360653	CSS	0.0169023
CV	108.445	STD MEAN	0.0375303
T:MEAN=0	1.84425	PROB> T	0.16235
SGN RANK	5	PROB> S	0.100348
NUM ^= 0	4		
W:NORMAL	0.89475	PROB<W	0.387

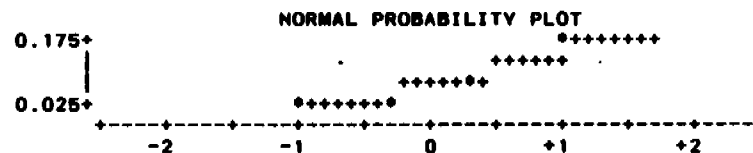
STEM	LEAF	#
1	7	1
1		
0	8	1
0	12	2

MULTIPLY STEM.LEAF BY 10**-01



QUANTILES(DEF=4)			
100% MAX	0.172928	99%	0.172927
75% Q3	0.148455	95%	0.172927
50% MED	0.048505	90%	0.172927
25% Q1	0.0106858	10%	0.00692361
0% MIN	0.00692361	5%	0.00692361
		1%	0.00692361
RANGE	0.166004		
Q3-Q1	0.137769		
MODE	0.00692361		

EXTREMES	
LOWEST	HIGHEST
0.00692361	.
0.0219722	0.00692361
0.0750379	0.0219722
0.172928	0.0750379
.	0.172928



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DO 012590
CONFIDENTIAL

TABLE 16
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=TANKCAR LOADING YEAR=1984

UNIVARIATE

VARIABLE=TOP1

MOMENTS			
N	2	SUM WGTs	2
MEAN	0.291981	SUM	0.583961
STD DEV	0.0540171	VARIANCE	0.00291785
SKEWNESS	.	KURTOSIS	.
USS	0.173423	CSS	0.00291785
CV	18.5002	STD MEAN	0.0381959
T:MEAN=0	7.6443	PROB> T	0.0828101
SGN RANK	1.5	PROB> S	0.371093
NUM A= 0	2		
W:NORMAL	1	PROB<W	1

STEM LEAF #

32 0	1
30	
28	
26	
24 4	1

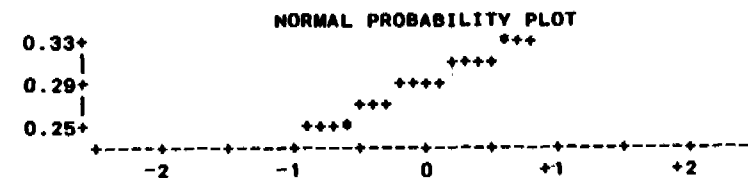
MULTIPLY STEM.LEAF BY 10**-02

BOXPLOT

QUANTILES(DEF=4)			
100% MAX	0.330176	99%	0.330176
75% Q3	0.330176	95%	0.330176
50% MED	0.291981	90%	0.330176
25% Q1	0.253785	10%	0.253785
0% MIN	0.253785	5%	0.253785
		1%	0.253785
RANGE	0.0763917		
Q3-Q1	0.0763917		
MODE	0.253785		

EXTREMES

LOWEST	HIGHEST
0.253785	.
0.330176	.
.	0.253785
.	0.330176



DO 012591
CONFIDENTIAL

TABLE 18
UNIVARIATE STATISTICS BY JOB CATEGORIES
FOR 1984 AND 1985

JOB CATEGORY=TANKCAR LOADING YEAR=1985

UNIVARIATE

VARIABLE=TOP1

MOMENTS

	3	SUM	WGTS	3
N				
MEAN	0.0874294	SUM		0.262288
STD DEV	0.034823	VARIANCE		0.00121264
SKEWNESS	1.37749	KURTOSIS		.
USS	0.025357	CSS		0.00242528
CV	39.8298	STD MEAN		0.0201051
T:MEAN=0	4.34863	PROB> T		0.0490245
SGN RANK	3	PROB> S		0.181449
NUM A= 0	3			
W:NORMAL	0.908946	PROB<W		0.382

QUANTILES(DEF=4)

100% MAX	0.126696	99%	0.126696	
75% Q3	0.126696	95%	0.126696	
50% MED	0.0752971	90%	0.126696	
25% Q1	0.0602955	10%	0.0602955	
0% MIN	0.0602955	5%	0.0602955	
		1%	0.0602955	
RANGE	0.0664002			
Q3-Q1	0.0664002			
MODE	0.0602955			

EXTREMES

LOWEST	HIGHEST
0.0602955	.
0.0752971	.
0.126696	0.0602955
.	0.0752971
.	0.126696

STEM LEAF #

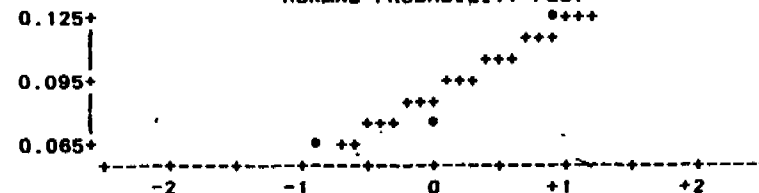
12 7	1
11	
10	
9	
8	
7 5	1
6 0	1

MULTIPLY STEM.LEAF BY 10**-02

BOXPLOT



NORMAL PROBABILITY PLOT



0.125
0.095
0.065

DO 012592
CONFIDENTIAL

A P P E N D I X C

UNIVARIATE STATISTICS OF DATA

DO 012593
CONFIDENTIAL

TABLE 17
UNIVARIATE STATISTICS FOR MAXIMUM EXPOSURE RESULTS
SEPARATED BY JOB CODE CLASSIFICATION

JCODE=BOARDMAN/OFFICE

UNIVARIATE

VARIABLE=TOP1

MOMENTS

	8	SUM WGTS	8
N	0.0374073	SUM	0.299258
MEAN	0.0374726	VARIANCE	0.00140419
STD DEV	1.05	KURTOSIS	0.151781
SKWENESS	0.0210238	CSS	0.00982935
USS	100.174	STD MEAN	0.0132485
CV	2.8235	PROB> T	0.0258441
T:MEAN=0	18	PROB> S	0.0142662
SGN RANK	8		
NUM A= 0			
W:NORMAL	0.829839	PROB<W	0.068

QUANTILES(DEF=4)

	0.108157	99%	0.108157
100% MAX	0.0653212	95%	0.108157
75% Q3	0.0210375	90%	0.108157
50% MED	0.00782467	10%	0.00685714
25% Q1	0.00685714	5%	0.00685714
0% MIN	0.00685714	1%	0.00685714
RANGE	0.1013		
Q3-Q1	0.0574965		
MODE	0.00685714		

EXTREMES

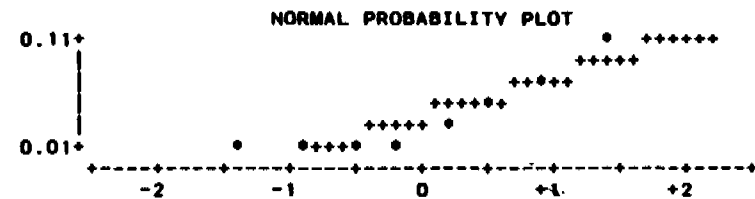
LOWEST	HIGHEST
0.00685714	0.00966667
0.00769048	0.0324083
0.00822727	0.0587348
0.00966667	0.0675167
0.0324083	0.108157

STEM LEAF

STEM	LEAF	#
10	8	1
8		
6	8	1
4	9	1
2	2	1
0	7880	4

MULTIPLY STEM.LEAF BY 10**-02

BOXPLOT



FREQUENCY TABLE

VALUE	COUNT	PERCENTS	CELL	CUM	VALUE	COUNT	PERCENTS	CELL	CUM	VALUE	COUNT	PERCENTS	CELL	CUM	VALUE	COUNT	PERCENTS	CELL	CUM
.0068571	1	12.5	12.5		.0082273	1	12.5	37.5		.0324083	1	12.5	62.5		.0675166	1	12.5	87.5	
.0076905	1	12.5	25.0		.0096667	1	12.5	50.0		.0587348	1	12.5	75.0		0.108157	1	12.5	100.0	

DO 012594
CONFIDENTIAL

TABLE 17
UNIVARIATE STATISTICS FOR MAXIMUM EXPOSURE RESULTS
SEPARATED BY JOB CODE CLASSIFICATION

JCODE=BRINE TREATING

UNIVARIATE

VARIABLE=TOP1

MOMENTS

	12	SUM WGTS	12
N	0.203593	SUM	2.44312
MEAN	0.15108	VARIANCE	0.022825
STD DEV	0.578438	KURTOSIS	-1.33524
SKWNESS	0.748477	CSS	0.251075
USS	74.2068	STD MEAN	0.0436129
CV	4.66818	PROB> T	0.000684559
T:MEAN=0	39	PROB> S	0.00252617
SGN RANK	12		
NUM A= 0			
W:NORMAL	0.864359	PROB<W	0.061

QUANTILES(DEF=4)

	100% MAX	0.437482	99%	0.437482
75% Q3	0.360404	95%	0.437482	
50% MED	0.157844	90%	0.436742	
25% Q1	0.0682943	10%	0.0435122	
0% MIN	0.0431667	5%	0.0431667	
		1%	0.0431667	
RANGE	0.394316			
Q3-Q1	0.292109			
MODE	0.0431667			

EXTREMES

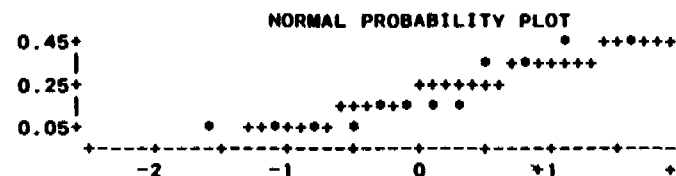
LOWEST	HIGHEST
0.0431667	0.194167
0.0443185	0.33718
0.0672569	0.368145
0.0714066	0.435014
0.129292	0.437482

STEM LEAF #

4 44	2
3 47	2
2	
1 3489	4
0 4477	4

MULTIPLY STEM.LEAF BY 10**-01

BOXPLOT



FREQUENCY TABLE

VALUE	COUNT	PERCENTS	CELL	CUM
.0431667	1	8.3	8.3	
.0443185	1	8.3	16.7	
.0672569	1	8.3	25.0	
.0714065	1	8.3	33.3	
0.129292	1	8.3	41.7	
0.136264	1	8.3	50.0	
0.179424	1	8.3	58.3	
0.194167	1	8.3	66.7	
0.33718	1	8.3	75.0	
0.368145	1	8.3	83.3	
0.435014	1	8.3	91.7	
0.437482	1	8.3	100.0	

DO 012595
CONFIDENTIAL

TABLE 17
UNIVARIATE STATISTICS FOR MAXIMUM EXPOSURE RESULTS
SEPARATED BY JOB CODE CLASSIFICATION

JCODE=CAUSTIC OPERATOR

UNIVARIATE

VARIABLE=TOP1

MOMENTS

	9	SUM WGTS	9
N	0.117809	SUM	1.08028
MEAN	0.161107	VARIANCE	0.0259555
STD DEV	2.25977	KURTOSIS	5.41143
SKEWNESS	0.332554	CSS	0.207644
USS	136.753	STD MEAN	0.0537023
CV	2.19374	PROB>T	0.0595727
T:MEAN=0	22.5	PROB>S	0.00915169
SGN RANK	9		
NUM A= 0			
W:NORMAL	0.694927	PROB<W	<.01

STEM LEAF

STEM	LEAF	#
5	1	1
4		
3		
2	1	1
1		
0	1123999	7

MULTIPLY STEM.LEAF BY 10**-01

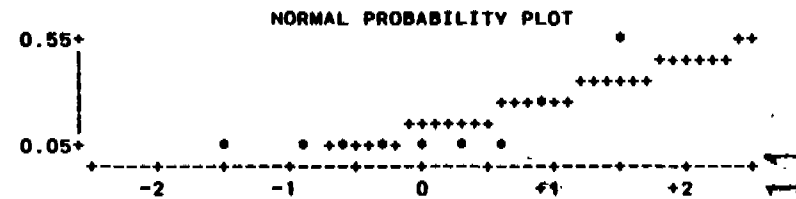
BOXPLOT

QUANTILES(DEF=4)

	0.513967	99%	0.513967
100% MAX	0.149325	95%	0.513967
75% Q3	0.085492	90%	0.513967
50% MED	0.018687	10%	0.00909333
25% Q1	0.00909333	5%	0.00909333
0% MIN		1%	0.00909333
RANGE	0.504873		
Q3-Q1	0.132638		
MODE	0.00909333		

EXTREMES

LOWEST	HIGHEST
0.00909333	0.085492
0.0147167	0.0897868
0.0186574	0.0908591
0.0299167	0.207991
0.085492	0.513967



FREQUENCY TABLE

VALUE	COUNT	PERCENTS
		CELL CUM
.00909333	1	11.1 11.1
.0147167	1	11.1 22.2
.0186574	1	11.1 33.3

VALUE	COUNT	PERCENTS
		CELL CUM
.0299167	1	11.1 44.4
0.085492	1	11.1 55.6
.0897867	1	11.1 66.7

VALUE	COUNT	PERCENTS
		CELL CUM
.0908591	1	11.1 77.8
0.207991	1	11.1 88.9
0.513967	1	11.1 100.0

DO 012596
CONFIDENTIAL

TABLE 17
UNIVARIATE STATISTICS FOR MAXIMUM EXPOSURE RESULTS
SEPARATED BY JOB CODE CLASSIFICATION

JCODE=CELL CREW

UNIVARIATE

VARIABLE=TOP1

MOMENTS

N	16	SUM WGTs	16
MEAN	0.110946	SUM	1.77513
STD DEV	0.0740455	VARIANCE	0.00548274
SKEWNESS	0.0690282	KURTOSIS	-1.87521
USS	0.279184	CSS	0.0822411
CV	66.7404	STD MEAN	0.0185114
T:MEAN=0	5.99337	PROB> T	0.0001
SGN RANK	68	PROB> S	.000482403
NUM A= 0	16		
W:NORMAL	0.846208	PROB<W	0.011

QUANTILES(DEF=4)

100% MAX	0.204357	99%	0.204357
75% Q3	0.186751	95%	0.204357
50% MED	0.0956096	90%	0.203896
25% Q1	0.0361798	10%	0.0235535
0% MIN	0.017822	5%	0.017822
		1%	0.017822
RANGE	0.186535		
Q3-Q1	0.150571		
MODE	0.017822		

EXTREMES

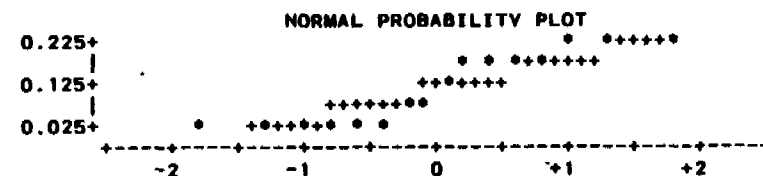
LOWEST	HIGHEST
0.017822	0.179209
0.0260098	0.189265
0.0330222	0.200433
0.0360436	0.203699
0.0365882	0.204357

STEM LEAF #

2 000	3
1 6889	4
1 0	1
0 99	2
0 233444	6

MULTIPLY STEM.LEAF BY 10**-01

BOXPLOT



FREQUENCY TABLE

VALUE	COUNT	PERCENTS	VALUE	COUNT	PERCENTS	VALUE	COUNT	PERCENTS	VALUE	COUNT	PERCENTS
		CELL CUM			CELL CUM			CELL CUM			CELL CUM
0.017822	1	6.3 6.3	.0365882	1	6.3 31.3	0.103765	1	6.3 56.3	0.189265	1	6.3 81.3
.0260098	1	6.3 12.5	.0376167	1	6.3 37.5	0.155396	1	6.3 62.5	0.200433	1	6.3 87.5
.0330222	1	6.3 18.8	.0866666	1	6.3 43.8	0.177783	1	6.3 68.8	0.203699	1	6.3 93.8
.0360436	1	6.3 25.0	.0874545	1	6.3 50.0	0.179209	1	6.3 75.0	0.204357	1	6.3 100.0

DO 012597
CONFIDENTIAL

TABLE 17
UNIVARIATE STATISTICS FOR MAXIMUM EXPOSURE RESULTS
SEPARATED BY JOB CODE CLASSIFICATION

JCODE=CELL OPERATOR

UNIVARIATE

VARIABLE=TOP1

MOMENTS

N	16	SUM WGTs	16
MEAN	0.327923	SUM	5.24677
STD DEV	0.255296	VARIANCE	0.0651763
SKEWNESS	0.419559	KURTOSIS	-1.10526
USS	2.69818	CSS	0.977644
CV	77.8525	STD MEAN	0.0638241
T:MEAN=0	5.13792	PROB> T	.000121369
SGN RANK	68	PROB> S	.000482403
NUM ^= 0	16		
W:NORMAL	0.916966	PROB<W	0.195

QUANTILES(DEF=4)

100% MAX	0.779097	99%	0.779097
75% Q3	0.546809	95%	0.779097
50% MED	0.29263	90%	0.75278
25% Q1	0.0821556	10%	0.0255543
0% MIN	0.0219867	5%	0.0219867
		1%	0.0219867
RANGE	0.757111		
Q3-Q1	0.464653		
MODE	0.0219867		

EXTREMES

LOWEST	HIGHEST
0.0219867	0.518986
0.0270833	0.556083
0.0625789	0.597511
0.0754747	0.741473
0.102198	0.779097

STEM LEAF #

6 048	3
4 726	3
2 6723	4
0 236802	6

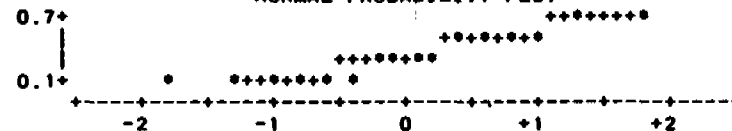
MULTIPLY STEM LEAF BY 10**-01

BOXPLOT

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+-----+
+-----+
+-----+
+-----+
  
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NORMAL PROBABILITY PLOT



FREQUENCY TABLE

VALUE	COUNT	PERCENTS	VALUE	COUNT	PERCENTS	VALUE	COUNT	PERCENTS	VALUE	COUNT	PERCENTS
		CELL CUM			CELL CUM			CELL CUM			CELL CUM
.0219867	1	6.3 6.3	0.102198	1	6.3 31.3	0.316493	1	6.3 58.3	0.556083	1	6.3 81.3
.0270833	1	6.3 12.5	0.116202	1	6.3 37.5	0.333967	1	6.3 62.5	0.597511	1	6.3 87.5
.0625789	1	6.3 18.8	0.260819	1	6.3 43.8	0.468053	1	6.3 68.8	0.741473	1	6.3 93.8
.0754747	1	6.3 25.0	0.268768	1	6.3 50.0	0.518986	1	6.3 75.0	0.779097	1	6.3 100.0

DO 012598
CONFIDENTIAL

TABLE 17
UNIVARIATE STATISTICS FOR MAXIMUM EXPOSURE RESULTS
SEPARATED BY JOB CODE CLASSIFICATION

JCODE=CONTROL

UNIVARIATE

VARIABLE=TOP1

MOMENTS

N	11	SUM WGTS	11
MEAN	0.0649975	SUM	0.714972
STD DEV	0.0708145	VARIANCE	0.00501469
SKWENESS	1.86137	KURTOSIS	3.92473
USS	0.0966183	CSS	0.0501469
CV	108.95	STD MEAN	0.0213514
T:MEAN=0	3.04418	PROB> T	0.0123739
SGN RANK	33	PROB> S	0.00385729
NUM A= 0	11		
W:NORMAL	0.783357	PROB<W	<.01

QUANTILES(DEF=4)

100% MAX	0.245806	99%	0.245806
75% Q3	0.103785	95%	0.245806
50% MED	0.0323925	90%	0.218853
25% Q1	0.0125089	10%	0.00909334
0% MIN	0.00903509	5%	0.00903508
		1%	0.00903508
RANGE	0.236771		
Q3-Q1	0.0912781		
MODE	0.00903508		

EXTREMES

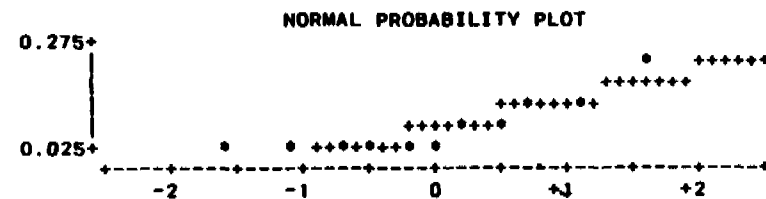
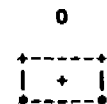
	LOWEST	HIGHEST
	0.00903509	0.0556216
	0.00932839	0.0852297
	0.0125089	0.103785
	0.0179561	0.111042
	0.0322708	0.245806

STEM LEAF

2 5	1
2	
1	
1 01	2
0 69	2
0 111233	6

MULTIPLY STEM LEAF BY 10**01

BOXPLOT



FREQUENCY TABLE

VALUE	COUNT	PERCENTS	VALUE	COUNT	PERCENTS	VALUE	COUNT	PERCENTS	VALUE	COUNT	PERCENTS
		CELL CUM			CELL CUM			CELL CUM			CELL CUM
.0090351	1	9.1 9.1	.0179561	1	9.1 36.4	.0556216	1	9.1 63.6	0.111042	1	9.1 90.9
.0093264	1	9.1 18.2	.0322708	1	9.1 45.5	.0852297	1	9.1 72.7	0.245806	1	9.1 100.0
.0125089	1	9.1 27.3	.0323925	1	9.1 54.5	0.103785	1	9.1 81.8			

DO 012599
CONFIDENTIAL

TABLE 17
UNIVARIATE STATISTICS FOR MAXIMUM EXPOSURE RESULTS
SEPARATED BY JOB CODE CLASSIFICATION

JCODE=ENGINEER

UNIVARIATE

VARIABLE=TOP1

MOMENTS

N	20	SUM WGTS	20
MEAN	0.0466876	SUM	0.933751
STD DEV	0.0588378	VARIANCE	0.00346188
SKWENESS	1.65349	KURTOSIS	2.16849
USS	0.10937	CSS	0.0657758
CV	126.025	STD MEAN	0.0131565
T:MEAN=0	3.54862	PROB> T	0.00214494
SGN RANK	105	PROB> S	0.0001
NUM A=0	20		
W:NORMAL	0.748899	PROB<W	<.01

QUANTILES(DEF=4)

100% MAX	0.210095	99%	0.210095
75% Q3	0.0831439	95%	0.207764
50% MED	0.0169583	90%	0.157448
25% Q1	0.00814475	10%	0.00588599
0% MIN	.000845238	5%	0.00109611
		1%	.000845238
RANGE	0.20825		
Q3-Q1	0.0749992		
MODE	.000845238		

EXTREMES

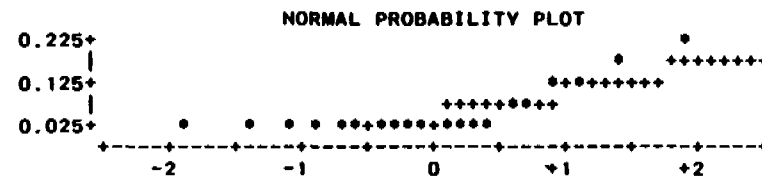
LOWEST	HIGHEST
.000845238	0.0866071
0.00586275	0.102905
0.00609524	0.103298
0.00647436	0.163464
0.00778571	0.210095

STEM LEAF

2 1	1
1 6	1
1 00	2
0 79	2
0 0111111112334	14

MULTIPLY STEM,LEAF BY 10**-01

BOXPLOT



FREQUENCY TABLE

VALUE	COUNT	PERCENTS	CELL	CUM
8.5E-04	1	5.0	5.0	
.0058627	1	5.0	10.0	
.0060952	1	5.0	15.0	
.0064744	1	5.0	20.0	
.0077857	1	5.0	25.0	

VALUE	COUNT	PERCENTS	CELL	CUM
.0092219	1	5.0	30.0	
.0093095	1	5.0	35.0	
.0098194	1	5.0	40.0	
.0101574	1	5.0	45.0	
.0112917	1	5.0	50.0	

VALUE	COUNT	PERCENTS	CELL	CUM
0.022625	1	5.0	55.0	
.0251282	1	5.0	60.0	
0.025303	1	5.0	65.0	
.0447083	1	5.0	70.0	
.0727544	1	5.0	75.0	

VALUE	COUNT	PERCENTS	CELL	CUM
.0866071	1	5.0	80.0	
0.102905	1	5.0	85.0	
0.103298	1	5.0	90.0	
0.163464	1	5.0	95.0	
0.210095	1	5.0	100.0	

DO 012600
CONFIDENTIAL

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UNIVARIATE

MOMENTS

N	13	SUM WGTS	13
MEAN	0.0358711	SUM	0.466325
STD DEV	0.0448887	VARIANCE	0.002015
SKEWNESS	1.41638	KURTOSIS	0.45209
USS	0.0409078	CSS	0.02418
CV	125.139	STD MEAN	0.0124499
T:MEAN=0	2.88124	PROB> T	0.0137988
SGN RANK	45.5	PROB> S	0.00166169
NUM ^= 0	13		
W: NORMAL	0.691067	PROB<W	<.01

```

STEM LEAF #
12 9 1
10 6 1
8 8 1
6
4 6 1
2
0 668880245 9
-----+-----+
MULTIPLY STEM.LEAF BY 10**02

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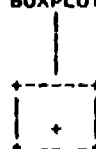
QUANTILES(DEF=4)

100% MAX	0.12916	99%	0.12916
75% Q3	0.0668075	95%	0.12916
50% MED	0.012277	90%	0.123917
25% Q1	0.00772479	10%	0.00622583
0% MIN	0.0061875	5%	0.0061875
		1%	0.0061875
RANGE	0.122972		
Q3-Q1	0.0590827		
MODE	0.0061875		

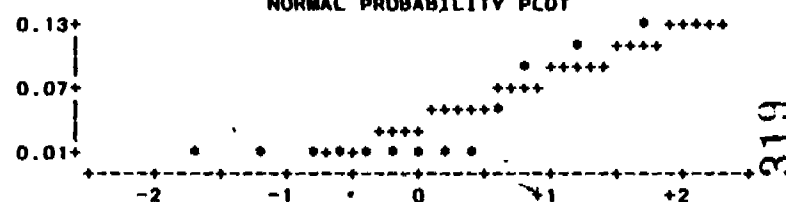
EXTREMES

LOWEST	HIGHEST
0.0061875	0.0154444
0.00628333	0.04575
0.00771429	0.0878651
0.00773529	0.116052
0.00784444	0.12916

BOXPLOT



NORMAL PROBABILITY PLOT



FREQUENCY TABLE

		PERCENTS	
VALUE	COUNT	CELL	CUM
.0061875	1	7.7	7.7
.0062833	1	7.7	15.4
.0077143	1	7.7	23.1
.0077353	1	7.7	30.8

VALUE	COUNT	PERCENTS	
		CELL	CUM
.0078444	1	7.7	38.5
.0100448	1	7.7	46.2
0.012277	1	7.7	53.8
.0139667	1	7.7	61.5

VALUE	COUNT	PERCENTS
		CELL CUM
.0154444	1	7.7 69.2
0.04575	1	7.7 76.9
.0878651	1	7.7 84.6
0.116052	1	7.7 92.3

		PERCENTS	
VALUE	COUNT	CELL	CUM
0.12916	1	7.7	100.0

DO 012601
CONFIDENTIAL

TABLE 17
UNIVARIATE STATISTICS FOR MAXIMUM EXPOSURE RESULTS
SEPARATED BY JOB CODE CLASSIFICATION

JCODE=POWER OPERATOR

UNIVARIATE

VARIABLE=TOP1

MOMENTS

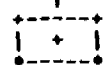
N	7	SUM WGTS	7
MEAN	0.100266	SUM	0.701861
STD DEV	0.150626	VARIANCE	0.0226883
SKWNESS	1.54503	KURTOSIS	1.12435
USS	0.206502	CSS	0.13613
CV	150.227	STD MEAN	0.0569314
T:MEAN=0	1.76117	PROB> T	0.128687
SGN RANK	14	PROB> S	0.0224943
NUM A=0	7		
W:NORMAL	0.683822	PROB<W	<.01

STEM LEAF #

3 8	1
2 4	1
1	
0 11123	5

MULTIPLY STEM LEAF BY 10**01

BOXPLOT



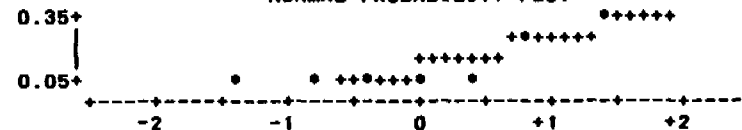
QUANTILES(DEF=4)

100% MAX	0.384934	99%	0.384934
75% Q3	0.238483	95%	0.384934
50% MED	0.0155263	90%	0.384934
25% Q1	0.0129242	10%	0.00849305
0% MIN	0.00849306	5%	0.00849305
		1%	0.00849305
RANGE	0.376441		
Q3-Q1	0.225559		
MODE	0.00849305		

EXTREMES

LOWEST	HIGHEST
0.00849306	0.01325
0.0129242	0.0155263
0.01325	0.02825
0.0155263	0.238483
0.02825	0.384934

NORMAL PROBABILITY PLOT



FREQUENCY TABLE

PERCENTS				PERCENTS				PERCENTS				PERCENTS			
VALUE	COUNT	CELL	CUM	VALUE	COUNT	CELL	CUM	VALUE	COUNT	CELL	CUM	VALUE	COUNT	CELL	CUM
.0084931	1	14.3	14.3	0.01325	1	14.3	42.9	0.02825	1	14.3	71.4	0.384934	1	14.3	100.0
.0129242	1	14.3	28.6	.0155263	1	14.3	57.1	0.238483	1	14.3	85.7				

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TABLE 17
UNIVARIATE STATISTICS FOR MAXIMUM EXPOSURE RESULTS
SEPARATED BY JOB CODE CLASSIFICATION

JCODE=PREV MAINT.

UNIVARIATE

VARIABLE=TOP1

MOMENTS

N	17	SUM WGTS	17
MEAN	0.161	SUM	2.737
STD DEV	0.264522	VARIANCE	0.0699718
SKWENESS	3.27472	KURTOSIS	11.9082
USS	1.5602	CSS	1.11955
CV	164.299	STD MEAN	0.064156
T:MEAN=0	2.50951	PROB> T	0.0232255
SGN RANK	76.5	PROB> S	.000321048
NUM A= 0	17		
W: NORMAL	0.575006	PROB<W	<.01

QUANTILES(DEF=4)

100% MAX	1.11626	99%	1.11625
75% Q3	0.190471	95%	1.11625
50% MED	0.0846354	90%	0.489013
25% Q1	0.0202034	10%	0.00806323
0% MIN	0.00610784	5%	0.00610784
		1%	0.00610784
RANGE	1.11015		
Q3-Q1	0.170267		
MODE	0.00610784		

EXTREMES

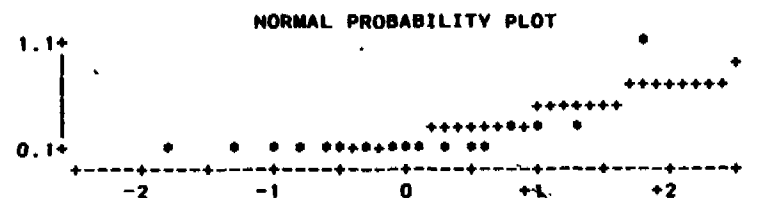
LOWEST	HIGHEST
0.00610784	0.148015
0.00855208	0.232926
0.0095625	0.257902
0.0193684	0.332202
0.0210385	1.11626

STEM LEAF

10 2	1
8	
6	
4	
2 363	3
0 1112223881145	13

MULTIPLY STEM, LEAF BY 10** -01

BOXPLOT



FREQUENCY TABLE

VALUE	COUNT	PERCENTS	CELL	CUM
.0061078	1	5.9	5.9	
.0085521	1	5.9	11.8	
.0095625	1	5.9	17.6	
.0193684	1	5.9	23.5	
.0210385	1	5.9	29.4	

VALUE	COUNT	PERCENTS	CELL	CUM
.0234314	1	5.9	35.3	
.0318712	1	5.9	41.2	
.0818542	1	5.9	47.1	
.0846354	1	5.9	52.9	
.108357	1	5.9	58.8	

VALUE	COUNT	PERCENTS	CELL	CUM
0.11225	1	5.9	64.7	
0.142667	1	5.9	70.6	
0.148015	1	5.9	76.5	
0.232926	1	5.9	82.4	
0.257902	1	5.9	88.2	

VALUE	COUNT	PERCENTS	CELL	CUM
0.332202	1	5.9	94.1	
1.11625	1	5.9	100.0	

DO 012603
CONFIDENTIAL

UNIVARIATE

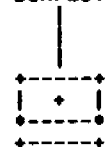
MOMENTS

QUANTILES(DEF=4)

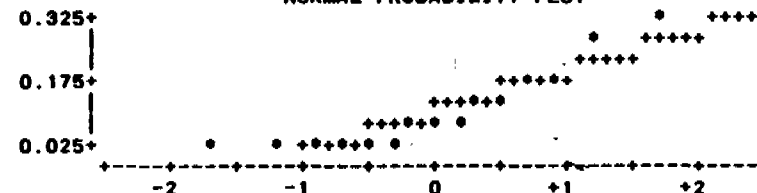
EXTREMES

LOWEST	HIGHEST
0.00892361	0.131858
0.00915278	0.184833
0.01475	0.172928
0.0219722	0.278025
0.0313681	0.31625

BOXPLOT



NORMAL PROBABILITY PLOT



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MULTIPLY STEM LEAF BY 100-01

FREQUENCY TABLE

VALUE	COUNT	PERCENTS	
		CELL	CUM
.0069236	1	6.7	6.7
.0091528	1	6.7	13.3
0.01475	1	6.7	20.0
.0219722	1	6.7	26.7

		PERCENTS	
VALUE	COUNT	CELL	CUM
.0313681	1	6.7	33.3
.0367656	1	6.7	40.0
.0750378	1	6.7	46.7
.0816111	1	6.7	53.3

VALUE	COUNT	PERCENTS
		CELL CUM
.0995877	1	6.7 60.0
0.117044	1	6.7 66.7
0.131858	1	6.7 73.3
0.164833	1	6.7 80.0

VALUE	COUNT	PERCENTS	
		CELL	CUM
0.172927	1	6.7	86.7
0.278025	1	6.7	93.3
0.31625	1	6.7	100.0

DO 012604
CONFIDENTIAL

TABLE 17
UNIVARIATE STATISTICS FOR MAXIMUM EXPOSURE RESULTS
SEPARATED BY JOB CODE CLASSIFICATION

JCODE=TANKCAR LOADING

UNIVARIATE

VARIABLE=TOP1

MOMENTS

N	5	SUM WGTS	5
MEAN	0.16925	SUM	0.846249
STD DEV	0.117848	VARIANCE	0.0138881
SKEWNESS	0.654744	KURTOSIS	-1.88313
USS	0.19878	CSS	0.0555526
CV	69.6296	STD MEAN	0.0527032
T:MEAN=0	3.21138	PROB> T	0.0325462
SGN RANK	7.5	PROB> S	0.0590582
NUM ^= 0	5		
W:NORMAL	0.890615	PROB<W	0.38

QUANTILES(DEF=4)

100% MAX	0.330176	99%	0.330176
75% Q3	0.291981	95%	0.330176
50% MED	0.126696	90%	0.330176
25% Q1	0.0677963	10%	0.0602955
0% MIN	0.0602955	5%	0.0602955
		1%	0.0602955
RANGE	0.269881		
Q3-Q1	0.224184		
MODE	0.0602955		

EXTREMES

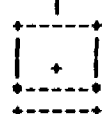
	LOWEST	HIGHEST
	0.0602955	0.0602955
	0.0752971	0.0752971
	0.126696	0.126696
	0.253785	0.253785
	0.330176	0.330176

STEM LEAF

3 3	1
2 5	1
2	
1	
1 3	1
0 68	2

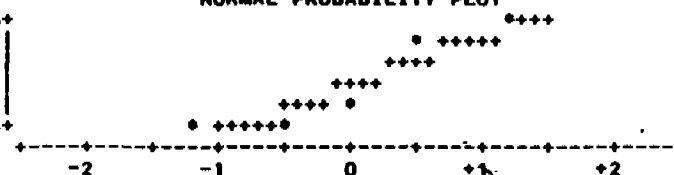
MULTIPLY STEM.LEAF BY 10**+01

BOXPLOT



0.325+
0.075+

NORMAL PROBABILITY PLOT



FREQUENCY TABLE

VALUE	COUNT	PERCENTS CELL	CUM
.0602955	1	20.0	20.0
.0752971	1	20.0	40.0

VALUE	COUNT	PERCENTS CELL	CUM
0.126696	1	20.0	60.0
0.253785	1	20.0	80.0

VALUE	COUNT	PERCENTS CELL	CUM
0.330176	1	20.0	100.0

DO 012605
CONFIDENTIAL

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