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SOME MODELS FOR CEILING.(U)

AUG 79 S J BEAN, P N SOMERVILLE, M HEUSER

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SOME MODELS FOR CEILING

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The Burr Curve, which has a closed form cumulative distribution function, is used to model ceiling. Ceiling is modeled for 23 stations distributed throughout the world. Separate models are given for each station for each month and for each three-hour period of the day. Estimates of the error in using the model to estimate ceiling probabilities are given.			

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1. INTRODUCTION

→ There are many situations where it is useful to estimate the probability that some weather event will occur on some specified future date. A way of making the estimate is to calculate the proportion of time that the event occurred in previous years. There exist large environmental data bases that can be used to make such estimates. Because these data bases are so large, summaries are usually ^{used} utilized. USAFETAC, Air Weather Service, regularly produces, for a large number of stations, a "Revised Uniform Summary of Surface Weather Observations". These "RUSSWO's" provide a very convenient summary and are widely utilized.

^{used} In this report we make use of the Burr Curve with three parameters to effectively compact data on ceiling for a number of locations. The data used to develop the models was extracted from the "Revised Uniform Summary of Surface Weather Observations" (RUSSWO's) prepared by the Data Processing Division of the Air Weather Service, or by the "Summary of Meteorological Observations, "Surface" (SMOS) prepared by the Naval Weather Service Detachment.

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In general, for each station, 96 sets of parameter values were found, for each three-hour period of the day for each of the twelve months.

2. MODELING CEILING

An elementary, but useful method of developing a model for data is the following. First make a histogram of the data and then "smooth" the histogram to get a frequency distribution (probability density function). The probability of a value of the variable less than some fixed amount is then estimated by the proportion of the area under the frequency distribution to the left of that amount.

There are usually a number of curves or distributions which can be used to fit the data. In this report, we use the three parameter "Burr Curve." The cumulative distribution function of the Burr Curve is in closed form. That is, probabilities can be obtained by direct substitution and no numerical integration or other approximations are required. The cumulative distribution function is given by

$$F(x) = 1 - \left(1 + (x/c)^a\right)^{-b} \quad a, b, c > 0$$

Separate values of a , b and c for each station for each three-hour period, for each month are estimated. These parameter estimates are tabulated in Section 6.

3. ESTIMATION OF THE PARAMETERS OF THE MODEL

As in the previous Scientific Reports in this series, we chose to estimate the model parameters by a regression of the empirical cumulative distribution function on the model cumulative distribution function.* By that, we mean that the estimates of the parameters are those which minimize the sum of squares of the differences between the empirical cumulative distribution function and the model cumulative distribution function (Burr Curve) over all the values for ceiling which form the interior boundaries between categories. In this case, the values (feet) were 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 1800, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 6000, 7000, 8000, 9000, 10000, 12000, 14000, 16000, 18000, 20000.

Since our object is not to estimate the parameters of the Burr Curve for their own sake, but only as a means of obtaining probabilities, the method has considerable intuitive appeal. It does indeed have a number of desirable properties which the authors intend to develop in a separate publication at a later date.

100	200	300	400
500	600	700	800
900	1000	1200	1500
1800	2000	2500	3000
3500	4000	4500	5000
6000	7000	8000	9000
10000	12000	14000	16000
18000	20000		

* A more detailed description of the method is planned for Scientific Report Number 8 to be titled "Use of Non-linear Regression to Estimate a Cumulative Distribution Function."

x (feet)	Prob (X < x)		Difference
	Empirical	Model	
20,000	.579	.570	.009
18,000	.575	.555	.020
16,000	.568	.538	.030
14,000	.547	.518	.029
12,000	.514	.494	.020
10,000	.448	.465	-.017
9,000	.425	.447	-.022
8,000	.385	.426	-.041
7,000	.357	.403	-.046
6,000	.346	.375	-.029
5,000	.327	.341	-.014
4,500	.313	.321	-.008
4,000	.288	.298	-.010
3,500	.278	.273	.005
3,000	.265	.244	.021
2,500	.247	.211	.036
2,000	.201	.172	.029
1,800	.188	.155	.033
1,500	.140	.127	.013
1,200	.098	.098	-.000
1,000	.069	.078	-.009
900	.064	.068	-.004
800	.048	.058	-.010
700	.032	.048	-.016
600	.022	.038	-.016
500	.010	.029	-.019
400	.003	.021	-.018
300	.001	.013	-.012
200	.001	.007	-.006
100	.001	.002	-.001

TABLE 3.1

Empirical vs Model Probabilities

Okinawa June 1000 Hours

x (feet)	Prob (X < x)		Difference
	Empirical	Model	
20,000	.674	.673	.001
18,000	.669	.657	.011
16,000	.646	.639	.007
14,000	.570	.618	-.048
12,000	.512	.592	-.080
10,000	.495	.560	-.065
9,000	.491	.541	-.050
8,000	.488	.519	-.031
7,000	.486	.494	-.008
6,000	.480	.464	.016
5,000	.471	.428	.043
4,500	.460	.407	.053
4,000	.460	.383	.077
3,500	.459	.356	.103
3,000	.456	.326	.130
2,500	.439	.291	.148
2,000	.203	.250	-.047
1,800	.203	.232	-.029
1,500	.072	.202	-.130
1,200	.014	.168	-.154
1,000	.002	.144	-.142
900	.002	.131	-.129
800	.002	.118	-.116
700	.000	.104	-.104
600	.000	.090	-.090
500	.000	.075	-.075
400	.000	.060	-.060
300	.000	.044	-.044
200	.000	.029	-.029
100	.000	.013	-.013

TABLE 3.2

Empirical vs Model Probabilities

Saigon June 1000 Hours

Tables 3.1 and 3.2 illustrate the results using the method to obtain fits for Okinawa, June 1000 hours and for Saigon, June 1000 hours. A discussion of Tables 3.1 and 3.2 is given in the next section.

4. GOODNESS OF FIT OF THE MODELS

The goodness of fit of an individual model (specified station, month, and time of day) was measured in two ways. First, the root mean square of the difference between the empirical and model cumulative distribution functions at ceilings of 100, 200, ..., 18000, 20000 feet (the thirty values between adjacent categories in the RUSSWO's) was calculated. The overall root mean square (over all months and times of day) for a given station was also calculated. Second, the proportion of cases where the empirical and model probabilities differed by more than .01, or .02 was calculated. The two measures of goodness of fit for the modeled stations are given in Table 4.1.

It may be noted that the overall RMS of the fits varied from .010 at Scott AFB to .058 at Ascension Island. The four worst fits were for Ascension Island, Lajes Field, Saigon and Shemya, while the four best fits were for Bangor, Bedford, Patrick AFB and Scott AFB. It is strongly suspected that the data quality was a very significant factor in the goodness of fit of the data. As an example, referring to Table 3.2, Saigon June 1000 hours, it may be noted that the empirical (RUSSWO) values for the probability of ceiling values less than each of 1800 and 2000 feet were the same, while the value jumped considerably for 2500 feet. The same phenomenon was recorded for all months and all times of day for Saigon.

STATION	OVERALL		
	RMS	PROB 1*	PROB 2*
Ascension	.058	.72	.60
Balboa	.0277	.57	.37
Bangor	.014	.51	.16
Bedford	.011	.36	.07
Bermuda	.017	.44	.18
Christchurch	.018	.54	.25
Furmumaki	.022	.61	.30
Goose	.018	.53	.24
Hill AFB	.028	.68	.45
Lajes Field	.040	.65	.46
McMurdo	.021	.60	.31
Midway	.032	.61	.39
Mildenhall	.021	.59	.33
Nenana	.015	.36	.14
New Delhi	.017	.30	.12
Okinawa	.020	.47	.23
Patrick AFB	.011	.27	.08
Saigon	.041	.56	.39
Scott AFB	.010	.25	.08
Shemya	.038	.74	.53
Thule	.021	.59	.30
Torrejon	.015	.34	.16
Wake	.018	.46	.19
* Prob 1 and Prob 2 are the proportion of cases where the model and empirical probabilities differ by more than .01 and .02 respectively.			

TABLE 4.1
GOODNESS OF FIT OF THE MODELS

	TIME OF DAY							
	0000 -0200	0300 -0500	0600 -0800	0900 -1100	1200 -1400	1500 -1700	1800 -2000	2100 -2300
Jan	.04	.04	.03	.03	.03	.03	.04	.04
Feb	.03	.03	.02	.02	.02	.02	.03	.03
Mar	.02	.02	.02	.01	.02	.02	.02	.02
Apr	.01	.01	.01	.01	.01	.01	.01	.01
May	.02	.02	.02	.02	.02	.02	.02	.02
June	.02	.02	.02	.02	.02	.02	.02	.02
July	.01	.01	.02	.02	.02	.02	.02	.01
Aug	.01	.01	.02	.02	.03	.02	.02	.02
Sept	.01	.01	.01	.02	.03	.03	.01	.01
Oct	.01	.01	.01	.01	.01	.01	.01	.01
Nov	.01	.01	.01	.01	.01	.01	.01	.01
Dec	.02	.02	.02	.02	.02	.01	.02	.02

TABLE 4.2

RMS OF MODEL FITS

OKINAWA

	TIME OF DAY							
	0000 -0200	0300 -0500	0600 -0800	0900 -1100	1200 -1400	1500 -1700	1800 -2000	2100 -2300
Jan	.01	.01	.01	.01	.03	.02	.01	.01
Feb	.01	.01	.01	.01	.02	.01	.01	.01
Mar	.01	.02	.01	.04	.06	.01	.01	.00
Apr	.02	.02	.01	.10	.09	.01	.01	.01
May	.03	.03	.02	.07	.07	.04	.04	.04
June	.03	.03	.03	.08	.06	.04	.05	.04
July	.04	.04	.04	.07	.08	.05	.06	.05
Aug	.04	.04	.04	.07	.07	.05	.06	.05
Sept	.05	.04	.04	.08	.07	.06	.05	.05
Oct	.03	.02	.02	.05	.06	.04	.04	.05
Nov	.02	.02	.02	.03	.06	.02	.02	.02
Dec	.01	.01	.01	.02	.05	.03	.03	.02

TABLE 4.3
RMS OF MODEL FITS
SAIGON

In the cases of Ascension, Lajes Field and Shemya, the same empirical probabilities were almost always recorded for ceilings between 10,000 and 20,000 feet (and especially between 16,000 and 20,000 feet) for a given station, month and time of day. For the four "best" stations, on the other hand, no data "anomalies" were observed.

Because of the apparent data anomalies, we believe that for many cases the model probabilities may be closer to the "correct probabilities" than the RUSSWO values. Thus the overall RMS values, as given in the TABLE 4.1, may be misleading, especially for the stations with large RMS values. The model tends to smooth out the anomalies and improve on the empirical probabilities. Thus the values for the overall RMS may not represent how good our model is, but instead be a measure of the quality of the data.

Tables 4.2 and 4.3 give a breakdown of the RMS of the fits by month and time of day for Okinawa and Saigon. Okinawa was selected because it represents the station with the median RMS value. Saigon was selected because it had one of the largest RMS values. For Saigon, it may be noted that for the months April through October the fits for 1000 and 1300 hours stand out as being the poorest. An examination of the data in the RUSSWO's and the individual model fits shows that a large contributor to this phenomenon was the aforementioned data anomalies in the 1800 to 2500 feet ceiling range.

5. USE OF THE MODELS

Suppose one wishes to find the probability that the ceiling is less than 1000, 5000, 11000, and 15000 feet at Mildenhall for May 1900 hours. Using the appropriate table in Section 6, we find that $a = 2.45046$, $b = .164914$, $c = 2500$. Substituting these values in the model

$$\text{Prob } [X \leq x] = 1 - \left(1 + (x/c)^a\right)^{-b}$$

we estimate the required probabilities at .016, .265, .453 and .516.

We can compare these with the empirical probabilities of the RUSSWO for 1000 and 5000 feet. The values are .022 and .262 respectively, and they compare favorably with the model values of .016 and .265.

It should be noted that our models can be used to estimate $P[X \leq x]$ for any value of x (windspeed in feet) including values converted from the metric system, and not just the end points of the intervals listed in the RUSSWO's.

6. TABLES OF COEFFICIENTS OF THE INDIVIDUAL MODELS

PARAMETERS FOR BURR DISTRIBUTION - CEILING

	ASCENSION IS							
	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	1.90874	3.09169	4.5254	6.23154	8.27791	3.9487	2.0502	1.62967
B	0.181794	0.160315	0.123591	0.0836567	0.0520151	0.0886562	0.156257	0.179062
C	2000	2000	2000	2000	2000	2000	2000	2000
FEB								
A	1.36851	1.50752	2.2443	1.65499	1.62347	1.19723	1.52952	1.25125
B	0.145815	0.164246	0.132937	0.145618	0.131766	0.163398	0.139927	0.13499
C	2000	2000	2000	2000	2000	2000	2000	2000
MAR								
A	1.07016	1.05905	1.37525	1.44086	1.56116	1.18029	1.1344	0.861555
B	0.161132	0.208316	0.196958	0.158106	0.138317	0.158416	0.142195	0.153192
C	2000	2000	2000	2000	2000	2000	2000	2000
APR								
A	1.55729	1.6789	1.9665	1.81019	1.44259	1.45651	1.51006	1.29757
B	0.159518	0.17428	0.16408	0.158784	0.19627	0.190602	0.151545	0.159554
C	2000	2000	2000	2000	2000	2000	2000	2000
MAY								
A	1.4347	1.30396	1.51819	1.78378	1.28811	1.28513	1.04074	0.908529
B	0.150485	0.185848	0.186198	0.148023	0.188844	0.168423	0.151987	0.161662
C	2000	2000	2000	2000	2000	2000	2000	2000
JUNE								
A	1.97448	2.14912	3.32575	3.63441	2.28711	1.65598	0.97525	1.04634
B	0.126357	0.159347	0.125385	0.0930696	0.136721	0.189558	0.241719	0.195365
C	2000	2000	2000	2000	2000	2000	2000	2000
JULY								
A	1.63048	20.9355	11.4726	12.6317	7.24248	2.93425	1.97378	1.64367
B	0.171497	0.0182677	0.0402335	0.0289466	0.0425957	0.107085	0.126436	0.151172
C	2000	2000	2000	2000	2000	2000	2000	2000
AUG								
A	6.90969	7.25022	10.1551	1.67421	11. 3	5.25832	2.57425	3.32958
B	0.0774972	0.0909797	0.0748282	0.667499	0.0396109	0.0779458	0.162929	0.130463
C	2000	2000	2000	5000	2000	2000	2000	2000
SEPT								
A	8.36704	11.3948	2.75326	2.55356	2.07768	7.24964	5.27272	6.49072
B	0.118056	0.108229	1.54907	1.16103	0.9407	0.0985111	0.139511	0.120483
C	2000	2000	5000	5000	5000	2000	2000	2000
OCT								
A	9.06968	11.1101	2.90191	2.97119	2.16008	6.55193	5.21207	7.44639
B	0.129931	0.120574	2.00196	1.50554	1.055	0.132602	0.1775	0.140158
C	2000	2000	5000	5000	5000	2000	2000	2000
NOV								
A	12.9543	12.693	3.29565	2.37832	1.69017	10.6433	9.33235	11.778
B	0.0815741	0.100506	1.97875	1.22035	0.901616	0.0775312	0.0917071	0.76064
C	2000	2000	5000	5000	5000	2000	2000	2000
DEC								
A	7.85766	7.31817	9.36609	1.60979	1.5034	7.90859	4.62792	4.72918
B	0.0740284	0.102831	0.0879406	0.826122	0.692824	0.0692093	0.111243	0.0986225
C	2000	2000	2000	5000	5000	2000	2000	2000

PARAMETERS FOR BURR DISTRIBUTION CEILING

BALBUA

	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	1.53477	1.43093	5.39575	2.61855	1.84422	2.00565	1.47192	1.56648
B	0.0548479	0.0685752	0.0158518	0.0521484	0.130945	0.0912379	0.091063	0.0849332
C	5000	5000	2000	2000	2000	2000	5000	10000
FEB	.	.	.	.	.	.	.	.
A	2.73719	2.24901	2.48619	1.80943	1.72396	2.31644	2.75668	2.21547
B	0.0192691	0.0313851	0.0335926	0.0719396	0.151	0.0778932	0.0236449	0.0180602
C	2000	2000	2000	2000	2000	2000	2000	2000
MAR	.	.	.	.	.	.	.	.
A	1.0946	1.16838	1.29855	1.41655	22.5142	2.45533	2.39418	1.09478
B	0.077461	0.0977079	0.113874	0.112607	0.0138329	0.0850481	0.028144	0.0549457
C	5000	5000	5000	2000	2000	2000	2000	5000
APR	.	.	.	.	.	.	.	.
A	1.43193	1.35111	1.71188	14.4276	12.1437	12.3412	1.50469	1.53525
B	0.0846734	0.11462	0.137926	0.0174052	0.0378126	0.0254479	0.116359	0.0713476
C	5000	5000	5000	2000	2000	2000	5000	5000
MAY	.	.	.	.	.	.	.	.
A	1.26912	1.44819	1.36868	2.90843	2.28279	2.60478	1.11387	1.17334
B	0.433504	0.266289	0.563412	0.115437	0.200097	0.172009	5.77253	4.15721
C	10000	5000	10000	2000	2000	2000	10000	10000
JUNE	.	.	.	.	.	.	.	.
A	1.03027	0.98756	1.03882	1.00347	1.3331	1.01792	1.15468	1.16173
B	3.47619	2.08161	4.70569	5.14625	0.459919	6.50102	6.77495	4.47884
C	100000	50000	100000	100000	5000	100000	100000	100000
JULY	.	.	.	.	.	.	.	.
A	1.53847	1.20134	1.25337	1.14541	2.31595	1.14189	1.42972	1.66842
B	6.21748	3.965	5.02458	4.94626	0.153414	7.17289	9.87071	9.23209
C	100000	100000	100000	100000	2000	100000	100000	100000
AUG	.	.	.	.	.	.	.	.
A	1.25478	1.13094	1.10813	1.00526	2.0517	1.1162	1.38384	1.39614
B	3.97668	3.61659	4.37684	4.36473	0.175794	7.17621	9.01498	5.89738
C	100000	100000	100000	100000	2000	100000	100000	100000
SEPT	.	.	.	.	.	.	.	.
A	1.21385	1.06227	1.11319	0.936262	0.97514	1.05512	1.22845	1.44492
B	4.20128	3.20032	4.37954	3.9436	1.38302	5.78071	6.80434	7.42779
C	100000	100000	100000	100000	25000	100000	100000	100000
OCT	.	.	.	.	.	.	.	.
A	1.09647	0.925618	0.935026	0.92733	1.63176	1.09643	1.01454	1.29448
B	3.72162	2.86043	3.64365	2.40095	0.22683	0.995917	5.77521	6.2984
C	100000	100000	100000	50000	2000	10000	100000	100000
NOV	.	.	.	.	.	.	.	.
A	1.10927	0.837765	0.940248	1.0011	1.67302	1.05226	1.10554	1.25852
B	3.34009	2.24981	2.92565	1.3327	0.270687	2.03985	5.69474	4.58409
C	100000	100000	100000	25000	2000	25000	100000	100000
DEC	.	.	.	.	.	.	.	.
A	1.90417	0.916421	1.02397	2.06536	1.75522	2.15203	1.0259	0.949726
B	0.249243	0.830308	0.650547	0.0932586	0.190217	0.128084	0.696458	1.46107
C	10000	50000	25000	2000	2000	2000	25000	100000

PARAMETERS FOR BURR DISTRIBUTION - CEILING

BANGOR								
	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	1.28751	1.34736	1.17348	1.23829	1.34696	1.35049	1.30706	1.28549
B	0.176122	0.181322	0.267228	0.199992	0.184518	0.184796	0.178859	0.177912
C	1000	1000	1500	1000	1000	1000	1000	1000
FEB								
A	1.15194	1.15478	0.987806	1.25297	1.48862	1.25552	1.17863	1.11195
B	0.180171	0.188468	0.275346	0.179757	0.162151	0.186173	0.173682	0.177211
C	1000	1000	1500	1000	1000	1000	1000	1000
MAR								
A	1.10501	1.10152	1.08697	1.49857	1.32595	1.2415	1.03674	1.07223
B	0.24116	0.257701	0.268265	0.175031	0.247085	0.247644	0.296385	0.231605
C	1500	1500	1500	1000	1500	1500	2000	1500
APR								
A	1.04432	1.07191	1.09409	1.3953	1.43359	1.3328	1.16134	1.03067
B	0.286608	0.253371	0.251178	0.218662	0.273117	0.302313	0.296225	0.291712
C	1500	1000	1000	1000	1500	2000	2000	2000
MAY								
A	0.612311	0.618258	0.941509	1.31062	1.92191	1.61746	0.893987	0.672258
B	0.737809	0.61992	0.267402	0.250986	0.192951	0.2442	0.772925	0.703899
C	10000	5000	1000	1500	1500	2000	10000	10000
JUNE								
A	0.487243	0.54096	0.87131	1.48268	1.9075	1.51385	0.941718	0.679969
B	0.686278	0.644787	0.27672	0.173862	0.178512	0.20651	0.427211	0.465051
C	10000	5000	1000	1000	1500	2000	5000	5000
JULY								
A	0.445937	0.451431	0.722745	1.33609	1.68656	1.14995	0.800925	0.546792
B	0.612282	0.719889	0.277426	0.159382	0.202357	0.365334	0.543033	0.564905
C	10000	10000	1000	1000	2000	5000	10000	10000
AUG								
A	0.526068	0.488387	0.630193	1.25835	1.65973	1.29637	0.914797	0.599673
B	0.585987	0.665521	0.368774	0.163498	0.201868	0.341823	0.548614	0.496473
C	10000	10000	2000	1000	2000	5000	10000	10000
SEPT								
A	0.651524	0.588825	0.755281	1.23314	1.60612	1.31118	0.713363	0.704852
B	0.247529	0.292274	0.270014	0.185495	0.173737	0.196247	0.557267	0.285917
C	1000	1000	1000	1000	1500	2000	10000	2000
OCT								
A	0.990504	0.887024	0.929157	1.23513	1.27438	1.07669	0.927266	0.924689
B	0.211652	0.246735	0.253756	0.200705	0.222582	0.259045	0.275777	0.253933
C	1000	1000	1000	1000	1500	2000	2000	1500
NOV								
A	1.1005	1.07017	0.930307	1.17357	1.39953	1.32023	1.13208	1.11023
B	0.256498	0.273114	0.395941	0.300624	0.253298	0.238999	0.256484	0.254808
C	1000	1000	1500	1000	1000	1000	1000	1000
DEC								
A	1.16051	1.16996	0.999021	1.0646	1.21323	1.17874	1.21209	1.18685
B	0.207753	0.207163	0.32615	0.314613	0.242117	0.243559	0.178543	0.191103
C	1000	1000	2000	2000	1500	1500	1000	1000

PARAMETERS FOR BURR DISTRIBUTION - CEILING

	BEDFORD							
	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	1.02693	1.14356	1.22107	1.19904	1.16779	0.968159	1.06902	1.06048
B	0.205246	0.204457	0.201941	0.189628	0.192682	0.255297	0.18968	0.188926
C	1000	1000	1000	1000	1000	1500	1000	1000
FEB	.	.	.	.	.	.	.	.
A	0.905743	1.03294	1.14725	1.25359	1.36846	1.08552	0.995623	0.914175
B	0.213934	0.206272	0.186151	0.173193	0.166385	0.218666	0.175217	0.192916
C	1000	1000	1000	1000	1000	1500	1000	1000
MAR	.	.	.	.	.	.	.	.
A	1.05088	0.972003	0.938285	1.22966	1.67315	1.25131	1.19078	0.989467
B	0.196476	0.210556	0.27541	0.194538	0.161913	0.235244	0.16801	0.233913
C	1000	1000	1500	1000	1000	1500	1000	1500
APR	.	.	.	.	.	.	.	.
A	0.912714	0.884679	1.04007	1.52565	1.67806	1.52041	1.21081	1.04862
B	0.315584	0.291389	0.222664	0.174783	0.203082	0.236454	0.25042	0.272497
C	2000	1500	1000	1000	1500	2000	2000	2000
MAY	.	.	.	.	.	.	.	.
A	0.719513	0.624783	0.950899	1.41674	1.58398	1.434	0.899979	0.833415
B	0.31839	0.546617	0.218394	0.158625	0.184971	0.223406	0.44355	0.274163
C	2000	5000	1000	1000	1500	2000	5000	2000
JUNE	.	.	.	.	.	.	.	.
A	0.592261	0.597938	0.813483	1.54496	2.03598	1.55307	0.995186	0.710227
B	0.584692	0.635567	0.279046	0.119887	0.128546	0.160333	0.314535	0.485865
C	10000	10000	2000	1000	1500	2000	5000	10000
JULY	.	.	.	.	.	.	.	.
A	0.601436	0.601379	0.694657	1.82781	1.87266	2.03856	0.976386	0.767918
B	0.442335	0.544976	0.407219	0.0931689	0.156392	0.107845	0.391779	0.382943
C	10000	10000	5000	1000	2000	2000	10000	10000
AUG	.	.	.	.	.	.	.	.
A	0.640208	0.61309	0.647948	1.48919	1.84785	1.54475	0.849213	0.745719
B	0.345079	0.542738	0.603891	0.128555	0.145588	0.153302	0.422795	0.310471
C	5000	10000	10000	1000	1500	2000	10000	5000
SEPT	.	.	.	.	.	.	.	.
A	0.753919	0.621441	0.795643	1.27185	1.46063	1.24934	0.839697	0.690314
B	0.206611	0.292343	0.22542	0.15522	0.158893	0.168496	0.335671	0.352821
C	1000	1500	1000	1000	1500	2000	5000	5000
OCT	.	.	.	.	.	.	.	.
A	0.850889	0.724804	0.755298	1.15819	1.51187	1.24898	1.2799	0.889903
B	0.179021	0.212593	0.277857	0.167594	0.123654	0.153728	0.113442	0.191953
C	1000	1000	1500	1000	1000	1500	1000	1500
NOV	.	.	.	.	.	.	.	.
A	0.966958	1.02384	0.961756	1.30679	1.52043	1.53853	1.13353	1.2445
B	0.270055	0.208781	0.289769	0.190338	0.161145	0.147912	0.217496	0.164847
C	1500	1000	1500	1000	1000	1000	1500	1000
DEC	.	.	.	.	.	.	.	.
A	1.12067	1.19765	0.84219	0.86857	1.16492	1.01533	1.24547	1.17452
B	0.179177	0.165325	0.473418	0.457272	0.210351	0.244673	0.147622	0.163158
C	1000	1000	5000	5000	1500	2000	1000	1000

PARAMETERS FOR BURR DISTRIBUTION - CEILING

BERMUDA								
JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
A	3.2579	4.19381	4.19363	2.58988	3.30942	2.9167	3.15258	3.50974
B	0.112473	0.0971912	0.110116	0.1792	0.1195	0.131045	0.131234	0.10183
C	2000	2000	2000	2500	2000	2000	2000	2000
FEB	.	.	.	.	.	.	.	.
A	2.96787	3.31178	3.35507	2.51212	2.96957	2.82429	3.09975	2.95328
B	0.156257	0.15474	0.15866	0.231851	0.146616	0.16381	0.157453	0.156236
C	2000	2000	2000	2500	2000	2000	2000	2000
MAR	.	.	.	.	.	.	.	.
A	2.61083	2.6012	2.89456	2.695	2.36713	2.24426	2.7694	2.78487
B	0.16077	0.18857	0.176983	0.151186	0.161107	0.16768	0.149681	0.134183
C	2000	2000	2000	2000	2000	2000	2000	2000
APR	.	.	.	.	.	.	.	.
A	2.09134	2.17654	1.97683	2.84492	2.54109	1.85797	1.93272	2.15759
B	0.131939	0.138112	0.1849	0.0905251	0.0885364	0.121272	0.132648	0.117115
C	1500	1500	2000	1500	1500	1500	1500	1500
MAY	.	.	.	.	.	.	.	.
A	1.97618	1.86756	2.55908	1.84668	1.81018	1.93943	2.17903	1.91599
B	0.0977109	0.126272	0.0892755	0.123478	0.112599	0.109607	0.0857836	0.0929641
C	1000	1000	1000	1500	1500	1500	1000	1000
JUNE	.	.	.	.	.	.	.	.
A	1.63239	1.84753	2.3971	2.4187	1.50652	2.84636	2.32574	1.808
B	0.118541	0.121159	0.0969311	0.0835413	0.171495	0.0679061	0.084495	0.0953098
C	1000	1000	1000	1000	2000	1000	1000	1000
JULY	.	.	.	.	.	.	.	.
A	1.38838	1.72364	2.23606	2.18322	1.56572	1.23218	1.22499	1.30782
B	0.0610398	0.0509045	0.0434582	0.0375013	0.076592	0.221933	0.211829	0.0902131
C	3000	2000	1500	1000	2500	10000	10000	5000
AUG	.	.	.	.	.	.	.	.
A	1.7288	2.68842	1.53382	1.23782	1.71273	1.16693	1.33192	1.37244
B	0.047788	0.0292537	0.0890242	0.147668	0.0781504	0.206079	0.208482	0.144971
C	2500	1500	3000	5000	2500	8000	10000	10000
SEPT	.	.	.	.	.	.	.	.
A	6.37883	2.56531	1.47227	1.43503	1.18521	1.1796	1.11319	2.2348
B	0.0137324	0.0463246	0.176926	0.192998	0.269687	0.253387	0.272293	0.0445104
C	1000	1500	5000	5000	8000	8000	10000	1500
OCT	.	.	.	.	.	.	.	.
A	2.41589	2.26443	1.51939	1.44525	1.38745	1.4985	1.45646	2.0404
B	0.0887646	0.0944011	0.278477	0.282306	0.275836	0.25596	0.265883	0.120751
C	2000	2000	5000	5000	5000	5000	5000	2500
NOV	.	.	.	.	.	.	.	.
A	2.64208	4.2306	4.28492	2.77917	3.25844	3.28385	3.64352	3.36595
B	0.112938	0.0624439	0.0653811	0.113285	0.0878258	0.0876324	0.0764156	0.0754049
C	2500	2000	2000	2500	2000	2000	2000	2000
DEC	.	.	.	.	.	.	.	.
A	3.83812	4.52755	2.83721	4.15234	3.12875	3.01532	3.43595	3.77769
B	0.0882559	0.0760885	0.159645	0.0892688	0.11077	0.111748	0.0976528	0.0794817
C	2000	2000	2500	2000	2000	2000	2000	2000

PARAMETERS FOR BURR DISTRIBUTION - CEILING

CHRISTCHURCH

	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	1.84835	1.63411	1.2934	1.69612	2.20234	2.06978	1.6092	1.33815
B	0.142909	0.173648	0.262271	0.173067	0.105296	0.0985768	0.15586	0.230393
C	1000	1000	1500	1500	1500	1500	1500	1500
FEB	.	.	.	.	.	.	.	.
A	1.52878	1.38818	1.23577	2.74698	2.41829	2.05762	1.76412	1.39653
B	0.159677	0.200506	0.294788	0.0960196	0.0956952	0.104246	0.148229	0.19558
C	1000	1000	1500	1000	1500	1500	1500	1500
MAR	.	.	.	.	.	.	.	.
A	1.36633	1.36182	1.47818	1.82966	1.5345	1.8669	1.33479	1.46295
B	0.196568	0.201409	0.209957	0.15705	0.193061	0.137946	0.22009	0.18338
C	1000	1000	1000	1000	1500	1500	1500	1000
APR	.	.	.	.	.	.	.	.
A	1.82156	1.54741	1.67496	1.41714	1.59729	1.56014	1.79627	1.91904
B	0.144725	0.171753	0.162423	0.201758	0.157615	0.135272	0.111887	0.114869
C	1000	1000	1000	1500	1500	1500	1000	1000
MAY	.	.	.	.	.	.	.	.
A	1.44021	1.34826	1.64724	1.32665	1.31717	1.31127	1.55686	1.29928
B	0.176647	0.183432	0.16134	0.23917	0.220363	0.198512	0.147219	0.191444
C	1000	1000	1000	1500	1500	1500	1000	1000
JUNE	.	.	.	.	.	.	.	.
A	1.39595	1.02306	1.42566	1.22744	1.26758	1.10079	0.954115	1.09027
B	0.153218	0.226335	0.159955	0.208256	0.180787	0.205396	0.297669	0.233491
C	1000	1500	1000	1500	1500	2000	3000	1500
JULY	.	.	.	.	.	.	.	.
A	1.46959	1.2625	1.30497	1.18357	1.48258	1.27257	1.47383	1.45671
B	0.147095	0.211626	0.222123	0.250306	0.153	0.187972	0.134166	0.139098
C	1000	1500	1500	1500	1000	1500	1000	1000
AUG	.	.	.	.	.	.	.	.
A	1.12587	1.11753	0.891413	1.26559	2.04262	1.50454	0.969916	0.953883
B	0.216465	0.172301	0.313392	0.175465	0.10383	0.132832	0.281619	0.314297
C	1500	1000	2000	1000	1000	1500	3000	3000
SEPT	.	.	.	.	.	.	.	.
A	1.57812	1.38878	0.94934	1.51794	2.7645	1.40465	1.09234	1.35355
B	0.146209	0.164006	0.292824	0.158658	0.0753664	0.17735	0.280507	0.18446
C	1000	1000	1500	1000	1000	2000	2500	1500
OCT	.	.	.	.	.	.	.	.
A	1.4688	1.17667	1.11649	1.56179	2.78269	1.81682	1.3154	1.62098
B	0.154605	0.190238	0.23728	0.148853	0.06711	0.108479	0.200164	0.131185
C	1500	1500	2000	1500	1500	2000	2500	1500
NOV	.	.	.	.	.	.	.	.
A	1.48606	1.30052	1.31245	2.53184	1.84033	1.66762	1.69483	1.61133
B	0.155352	0.182441	0.187052	0.0791178	0.117909	0.138905	0.178595	0.186954
C	1500	1500	1500	1000	1500	2000	2000	2000
DEC	.	.	.	.	.	.	.	.
A	1.74853	1.45275	2.08341	3.65736	2.06022	2.17409	1.55489	1.85879
B	0.161369	0.200101	0.144517	0.071995	0.115302	0.113518	0.199055	0.148183
C	1000	1000	1000	1000	1500	1500	1500	1000

PARAMETERS FOR BURR DISTRIBUTION - CEILING

FURUMAKI

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
A	1.91926	2.01406	2.08047	2.34141	2.47369	1.8441	2.19546	2.3772
B	0.278074	0.288959	0.292423	0.187348	0.19017	0.27504	0.183781	0.176161
C	2000	2000	2000	1500	1500	2000	1500	1500
FEB	.	.	.	.	.	.	.	.
A	2.4482	2.3345	2.48818	2.05773	2.25656	1.84064	1.88859	2.41494
B	0.166958	0.186946	0.167697	0.18169	0.183294	0.213207	0.188385	0.157422
C	1500	1500	1500	1500	1500	1500	1500	1500
MAR	.	.	.	.	.	.	.	.
A	1.80903	2.09977	1.78185	1.94488	1.87057	1.71579	1.96864	1.97359
B	0.185473	0.140897	0.213131	0.158385	0.223911	0.237424	0.157089	0.147518
C	2000	1500	2000	1500	2000	2000	1500	1500
APR	.	.	.	.	.	.	.	.
A	0.910348	0.916929	1.08701	1.50301	1.41306	1.01267	0.867744	0.924623
B	0.33962	0.348043	0.29007	0.180497	0.233641	0.39034	0.435334	0.315169
C	3000	3000	2500	1500	2000	4000	5000	3000
MAY	.	.	.	.	.	.	.	.
A	0.559512	0.649617	0.723378	0.839006	0.891194	0.849025	0.712152	0.578825
B	0.460619	0.513119	0.478159	0.447174	0.424989	0.450751	0.455903	0.446398
C	5000	5000	5000	5000	5000	5000	5000	5000
JUNE	.	.	.	.	.	.	.	.
A	0.558374	0.592465	0.699311	0.935859	0.92808	0.853789	0.717403	0.625593
B	0.522011	0.553302	0.513469	0.365	0.327338	0.37324	0.431455	0.467015
C	1000	1000	1000	1000	1000	1000	1000	1000
JULY	.	.	.	.	.	.	.	.
A	0.484306	0.523825	0.596805	0.789431	0.951764	0.862	0.684753	0.545456
B	0.650445	0.701725	0.661329	0.460007	0.358543	0.395513	0.503156	0.569566
C	1000	1000	1000	1000	1000	1000	1000	1000
AUG	.	.	.	.	.	.	.	.
A	0.489241	0.512721	0.667684	0.98757	0.93179	0.836128	0.660081	0.535553
B	0.676485	0.812887	0.506213	0.321244	0.164883	0.484944	0.636916	0.692527
C	4000	5000	1500	1000	1500	2000	3000	4000
SEPT	.	.	.	.	.	.	.	.
A	0.89805	0.915336	1.00313	1.00458	1.08741	1.06547	0.992276	0.940403
B	0.48119	0.508984	0.519887	0.535407	0.518028	0.502235	0.502238	0.445384
C	5000	5000	5000	5000	5000	5000	5000	5000
OCT	.	.	.	.	.	.	.	.
A	2.55301	2.62386	2.72079	2.20535	2.25584	2.08785	1.82875	2.02918
B	0.0993648	0.100676	0.127845	0.16018	0.170236	0.165835	0.158992	0.138445
C	2000	2000	2500	2500	2500	2500	2500	2500
NOV	.	.	.	.	.	.	.	.
A	3.52487	2.74389	3.09258	2.56889	3.27544	3.01188	2.50863	2.26847
B	0.0977853	0.155464	0.154066	0.168237	0.146488	0.151524	0.155759	0.172518
C	2000	2500	2500	2500	2500	2500	2500	2500
DEC	.	.	.	.	.	.	.	.
A	2.48492	2.09444	2.30641	2.70904	2.76602	2.51876	2.4702	2.56367
B	0.167089	0.246344	0.255576	0.165351	0.179224	0.197587	0.178759	0.171526
C	2000	2500	2500	2000	2000	2000	2000	2000

PARAMETERS FOR BURR DISTRIBUTION - CEILING

	GOOSE							
	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	2.00462	2.02877	2.34962	2.08323	2.15345	2.47749	2.35192	1.94177
B	0.132625	0.143259	0.126935	0.141975	0.128904	0.116738	0.117666	0.131885
C	1000	1000	1000	1000	1000	1000	1000	1000
FEB	.	.	.	.	.	.	.	.
A	2.03281	2.35585	1.79394	1.85409	2.52019	2.06592	1.90019	2.06823
B	0.116043	0.101605	0.173855	0.168625	0.102093	0.116699	0.121563	0.109263
C	1000	1000	1500	1500	1000	1000	1000	1000
MAR	.	.	.	.	.	.	.	.
A	2.53739	2.86764	2.7187	1.58041	2.03265	1.95458	2.6715	2.17368
B	0.114469	0.100204	0.119416	0.223444	0.172047	0.183257	0.104531	0.121439
C	1000	1000	1000	1500	1500	1500	1000	1000
APR	.	.	.	.	.	.	.	.
A	1.97894	1.89405	1.98946	3.1019	2.25965	2.6309	1.98962	2.55934
B	0.220146	0.259981	0.257338	0.130905	0.227614	0.196129	0.298821	0.172599
C	1500	1500	1500	1000	1500	1500	2000	1500
MAY	.	.	.	.	.	.	.	.
A	1.67739	1.63657	1.86656	2.31577	3.38772	2.55766	2.27627	2.1307
B	0.265518	0.335298	0.267256	0.205684	0.13305	0.196348	0.208446	0.214658
C	2000	2000	1500	1500	1500	2000	2000	2000
JUNE	.	.	.	.	.	.	.	.
A	1.34059	1.30092	1.5193	2.54141	2.75221	2.42504	2.19021	1.80074
B	0.485209	0.555432	0.363427	0.210895	0.239404	0.293629	0.283623	0.286624
C	4000	4000	2000	1500	2000	2500	2500	2500
JULY	.	.	.	.	.	.	.	.
A	1.55396	1.53392	1.75568	2.25907	2.73749	2.68359	2.3833	1.93972
B	0.320625	0.342611	0.27525	0.266792	0.26812	0.293526	0.261678	0.272959
C	3000	2500	2000	2000	2500	3000	3000	3000
AUG	.	.	.	.	.	.	.	.
A	1.30793	1.31473	1.49766	2.18926	2.98983	3.12726	2.14969	1.42533
B	0.395312	0.380361	0.402569	0.271656	0.276544	0.212001	0.28635	0.391193
C	4000	3000	3000	2000	2500	2500	3000	4000
SEPT	.	.	.	.	.	.	.	.
A	1.58137	2.14264	1.91116	2.50294	2.92661	2.96128	2.42547	1.59697
B	0.328765	0.205156	0.293506	0.250248	0.290439	0.235798	0.233299	0.385802
C	3000	2000	2500	2000	2500	2500	2500	4000
OCT	.	.	.	.	.	.	.	.
A	2.05291	1.6284	1.75542	2.22096	2.35851	2.86906	2.48885	2.10048
B	0.233942	0.324377	0.416811	0.287949	0.314574	0.22779	0.198773	0.224556
C	2000	2500	3000	2000	2000	2000	2000	2000
NOV	.	.	.	.	.	.	.	.
A	2.00278	1.8969	1.97199	1.85813	2.20172	1.85804	1.61641	2.30985
B	0.225852	0.243336	0.258382	0.264815	0.257199	0.279106	0.300547	0.181378
C	1500	1500	1500	1500	1500	1500	2000	1500
DEC	.	.	.	.	.	.	.	.
A	2.47073	3.56085	3.4866	1.79174	1.61939	1.75785	1.79828	3.07784
B	0.093516	0.0709447	0.0812912	0.193219	0.230561	0.176734	0.157344	0.0774941
C	1000	1000	1000	1500	2000	1500	1500	1000

PARAMETERS FOR BURR DISTRIBUTION - CEILING

HONOLULU

	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	1.89619	1.79176	2.12548	2.16869	2.00037	2.04314	2.03053	1.88026
B	0.131504	0.154161	0.147642	0.143183	0.153993	0.151264	0.135986	0.131693
C	3000	3000	3000	3000	3000	3000	3000	3000
FEB								
A	2.0262	1.92166	2.12001	2.28371	2.3764	2.37584	1.94949	2.07503
B	0.121727	0.134328	0.138664	0.149228	0.15102	0.143837	0.15472	0.122043
C	3000	3000	3000	3000	3000	3000	3000	3000
MAR								
A	1.73779	1.95473	1.95697	2.15125	2.19482	2.2617	2.07341	1.79292
B	0.148809	0.135381	0.150431	0.143595	0.148355	0.14442	0.138581	0.143736
C	3000	3000	3000	3000	3000	3000	3000	3000
APR								
A	2.01905	2.19009	2.21101	2.0742	2.13491	2.22222	1.87097	1.93725
B	0.13699	0.138445	0.134651	0.172431	0.161876	0.146986	0.153625	0.136455
C	3000	3000	3000	3000	3000	3000	3000	3000
MAY								
A	2.14214	2.21972	2.32144	1.95486	1.95435	2.15127	2.13341	1.91172
B	0.096868	0.096692	0.100576	0.132048	0.146288	0.141054	0.119661	0.111333
C	3000	3000	3000	3000	3000	3000	3000	3000
JUNE								
A	2.2216	2.2399	1.97453	2.06093	1.64825	2.23131	2.09563	1.83361
B	0.0981815	0.108504	0.143191	0.160335	0.169886	0.116754	0.117736	0.118935
C	3000	3000	3000	3000	3000	3000	3000	3000
JULY								
A	1.92382	1.87254	1.88115	1.78936	1.86482	1.86128	1.70263	1.52889
B	0.117887	0.128951	0.153932	0.172164	0.144806	0.128051	0.126318	0.128168
C	3000	3000	3000	3000	3000	3000	3000	3000
AUG								
A	1.78533	1.94326	1.92486	1.67206	1.96283	1.86707	1.81795	1.62195
B	0.118277	0.121547	0.131431	0.17568	0.176878	0.112472	0.112802	0.117176
C	3000	3000	3000	3000	3000	3000	3000	3000
SEPT								
A	1.93366	1.99989	2.53416	1.91339	2.19004	2.26067	1.58732	1.7171
B	0.0818992	0.0865256	0.0749143	0.126923	0.107136	0.101374	0.10353	0.0816271
C	3000	3000	3000	3000	3000	3000	3000	3000
OCT								
A	1.92363	2.12821	2.15045	2.10519	2.08112	2.261	1.99336	2.02254
B	0.101372	0.0895332	0.101216	0.128554	0.140536	0.130084	0.116473	0.0985755
C	3000	3000	3000	3000	3000	3000	3000	3000
NOV								
A	2.04594	1.98543	2.1112	1.96271	2.0332	2.04932	1.89889	1.94208
B	0.119107	0.105312	0.111426	0.129324	0.145329	0.152126	0.135028	0.12003
C	3000	3000	3000	3000	3000	3000	3000	3000
DEC								
A	1.88244	1.85881	2.09103	2.05443	1.99465	1.99171	1.89845	1.95826
B	0.145336	0.14958	0.151601	0.168874	0.17854	0.174579	0.154404	0.145821
C	3000	3000	3000	3000	3000	3000	3000	3000

PARAMETERS FOR BURR DISTRIBUTION - CEILING

LAJES FIELD

	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	3.50874	3.67857	4.5109	4.23174	4.52976	4.48047	4.31172	3.63418
B	0.174884	0.167758	0.149981	0.161932	0.150307	0.148623	0.145359	0.165465
C	1500	1500	1500	1500	1500	1500	1500	1500
FEB	.	.	.	.	.	.	.	.
A	5.45984	7.32694	3.03295	3.10468	5.79513	5.05001	4.08481	3.96438
B	0.107508	0.0829518	0.263616	0.256072	0.108001	0.118862	0.145604	0.139083
C	1500	1500	2000	2000	1500	1500	1500	1500
MAR	.	.	.	.	.	.	.	.
A	3.0336	3.33604	3.51261	3.74562	4.26808	3.88745	3.28311	3.36685
B	0.183991	0.175466	0.167785	0.155318	0.135227	0.142176	0.164702	0.163447
C	1500	1500	1500	1500	1500	1500	1500	1500
APR	.	.	.	.	.	.	.	.
A	4.82488	5.01917	3.13744	3.53059	3.17048	3.20527	4.4554	4.40101
B	0.108582	0.11706	0.256818	0.215389	0.205738	0.205848	0.114034	0.118975
C	1500	1500	2000	2000	2000	2000	1500	1500
MAY	.	.	.	.	.	.	.	.
A	3.94166	4.78074	3.18085	3.95698	4.3025	3.902	5.22604	3.68665
B	0.122712	0.116926	0.23896	0.174781	0.147883	0.153127	0.0921004	0.129167
C	1500	1500	2000	2000	2000	2000	1500	1500
JUNE	.	.	.	.	.	.	.	.
A	5.73571	3.74972	5.72174	6.33555	3.52021	2.77738	4.1877	6.02536
B	0.0623694	0.150138	0.101042	0.085985	0.180887	0.208837	0.112466	0.0543965
C	1000	1500	1500	1500	2000	2000	1500	1000
JULY	.	.	.	.	.	.	.	.
A	3.68815	4.17094	5.23522	3.15994	4.11798	3.28244	8.86777	3.86346
B	0.112361	0.110437	0.0904102	0.180488	0.132892	0.149808	0.0453731	0.0968946
C	1500	1500	1500	2000	2000	2000	1500	1500
AUG	.	.	.	.	.	.	.	.
A	4.87413	6.58309	3.08083	3.4242	4.25764	3.23813	7.57404	4.86147
B	0.0708284	0.0575087	0.170961	0.143495	0.106022	0.129378	0.042652	0.0648161
C	1500	1500	2000	2000	2000	2000	1500	1500
SEPT	.	.	.	.	.	.	.	.
A	7.21093	8.43406	3.07119	3.49201	4.80667	4.02286	7.61197	7.95966
B	0.0467455	0.0404048	0.155099	0.140987	0.099372	0.113954	0.0437302	0.0423556
C	1500	1500	2000	2000	2000	2000	1500	1500
OCT	.	.	.	.	.	.	.	.
A	3.93617	5.31004	2.95807	7.00545	3.3095	5.20648	4.47538	3.78621
B	0.137459	0.103345	0.248809	0.23559	0.204968	0.102417	0.117265	0.139033
C	1500	1500	2000	2000	2000	1500	1500	1500
NOV	.	.	.	.	.	.	.	.
A	4.45529	4.38916	5.5514	3.17481	3.56772	3.24132	5.80566	5.32109
B	0.13237	0.1356	0.118706	0.244932	0.225774	0.242415	0.103843	0.110319
C	1500	1500	1500	2000	2000	2000	1500	1500
DEC	.	.	.	.	.	.	.	.
A	4.47955	4.70512	2.99127	2.96762	3.0778	5.27481	4.65462	5.4345
B	0.130891	0.130682	0.277605	0.262996	0.248462	0.117432	0.132479	0.107352
C	1500	1500	2000	2000	2000	1500	1500	1500

PARAMETERS FOR BURR DISTRIBUTION - CEILING

MCMURDO

	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	1.59715	1.5638	1.39462	1.49389	1.55668	1.67843	1.72741	1.93074
B	0.314819	0.295396	0.406784	0.32665	0.289987	0.256791	0.230436	0.225768
C	5000	4000	5000	4000	4000	4000	4000	4000
FEB								
A	2.21493	2.259	3.00888	2.34386	2.42044	2.5216	2.59261	2.47948
B	0.320733	0.334513	0.210234	0.30844	0.289896	0.267314	0.273698	0.280382
C	3000	3000	2500	3000	3000	3000	3000	3000
MAR								
A	1.874	2.32464	2.36951	2.23013	2.40441	2.33331	2.10479	2.3212
B	0.285526	0.250093	0.252223	0.238371	0.209446	0.212182	0.232768	0.241313
C	2000	2000	2000	2000	2000	2000	2000	2000
APR								
A	1.75065	2.58698	2.18662	2.64786	2.92691	2.8112	2.20668	2.41438
B	0.171932	0.100584	0.159551	0.156271	0.141332	0.153688	0.206168	0.124335
C	1500	1000	1500	1500	1500	1500	1500	1000
MAY								
A	1.50147	1.75286	1.5362	1.237	1.2822	1.35076	1.40572	1.77612
B	0.147915	0.132723	0.150479	0.177803	0.233539	0.245793	0.17961	0.122881
C	1500	1500	1500	1500	2000	2000	1500	1500
JUNE								
A	0.99794	0.980069	1.12976	1.15665	0.978985	0.92246	1.14768	1.09133
B	0.282215	0.320232	0.234578	0.22861	0.315525	0.422818	0.267146	0.272868
C	2000	2500	1500	1500	2000	3000	2000	2000
JULY								
A	1.35316	0.929842	0.97459	0.871043	1.13589	1.08543	1.39185	1.36446
B	0.178186	0.333875	0.297072	0.288852	0.255158	0.387881	0.198898	0.209796
C	2500	5000	5000	4000	3000	5000	3000	3000
AUG								
A	1.18435	1.09673	1.14113	1.29771	1.25833	1.68858	1.28713	1.30759
B	0.168805	0.196758	0.183959	0.178931	0.227559	0.146972	0.187772	0.179619
C	2000	2000	2000	1500	2000	1500	2000	2000
SEPT								
A	0.796444	0.862562	1.0734	0.98343	1.04907	1.0952	1.01271	0.850299
B	0.433872	0.417151	0.465894	0.449354	0.409543	0.298263	0.435619	0.43671
C	5000	5000	5000	5000	5000	3000	5000	5000
OCT								
A	1.61675	1.35935	1.27788	1.22535	1.15323	1.39827	1.42991	1.57892
B	0.198638	0.303834	0.313102	0.274439	0.3114	0.208187	0.230692	0.21546
C	2000	3000	3000	2500	3000	2000	2500	2500
NOV								
A	2.62352	2.43887	2.39689	2.00972	2.23621	2.72982	1.97512	2.13261
B	0.137724	0.148745	0.15874	0.233008	0.198149	0.13028	0.21341	0.201418
C	3000	3000	3000	4000	4000	3000	4000	4000
DEC								
A	1.89412	1.55875	1.70142	1.77205	1.70998	1.81176	1.81588	1.79736
B	0.267208	0.376053	0.354636	0.34186	0.320033	0.320191	0.332002	0.326827
C	4000	5000	5000	5000	5000	5000	5000	5000

PARAMETERS FOR BURR DISTRIBUTION - CEILING

	MIDWAY							
	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	3.06429	3.13581	4.05665	4.60086	3.90163	3.76082	3.12414	2.76641
B	0.117888	0.117259	0.103246	0.0958436	0.108072	0.123302	0.15123	0.144255
C	1500	1500	1500	1500	1500	1500	1500	1500
FEB								
A	3.42167	4.22535	2.21347	2.36445	4.84666	4.26975	3.48783	3.30744
B	0.0965482	0.0845031	0.220698	0.222122	0.0808511	0.0952649	0.129205	0.109083
C	1500	1500	2000	2000	1500	1500	1500	1500
MAR								
A	4.6253	3.85269	4.2425	4.88617	4.73708	2.36367	2.28701	4.7324
B	0.100369	0.123383	0.142484	0.115848	0.0987522	0.240078	0.249894	0.0953227
C	1500	1500	1500	1500	1500	2000	2000	1500
APR								
A	3.26706	4.18174	4.80517	4.59725	4.49251	3.8544	3.78681	2.7621
B	0.124287	0.103783	0.105785	0.0948688	0.0918621	0.107301	0.124087	0.139507
C	1500	1500	1500	1500	1500	1500	1500	1500
MAY								
A	2.44822	2.78916	2.08936	1.93807	3.30626	2.88011	2.9746	2.68073
B	0.112838	0.104595	0.216018	0.175961	0.0813453	0.0943625	0.100894	0.0950006
C	1500	1500	2000	2000	1500	1500	1500	1500
JUNE								
A	2.13002	1.96713	2.72224	2.64846	2.41865	2.92	2.92865	2.17549
B	0.105039	0.12093	0.118012	0.096148	0.0955557	0.0864618	0.0961832	0.0994894
C	1500	1500	1500	1500	1500	1500	1500	1500
JULY								
A	1.83242	1.68138	2.27255	2.62848	2.98864	2.55575	2.76235	2.30339
B	0.074082	0.0859822	0.0955021	0.075536	0.061301	0.0770796	0.0600814	0.0511019
C	1500	1500	1500	1500	1500	1500	1500	1500
AUG								
A	1.49766	1.45575	2.42074	2.53812	4.1994	2.30033	2.64568	2.33569
B	0.0613237	0.0745008	0.0696148	0.0567213	0.0559905	0.0569708	0.0486951	0.0392674
C	1500	1500	1500	1500	1500	1500	1500	1500
SEPT								
A	1.83032	1.65034	2.0278	2.16282	2.30056	2.7916	2.76086	2.1548
B	0.0582417	0.0686923	0.0835186	0.0714615	0.0671498	0.0584071	0.0581138	0.0602859
C	1500	1500	1500	1500	1500	1500	1500	1500
OCT								
A	2.07066	2.02952	2.30479	3.24556	3.1322	2.69647	2.6719	2.4577
B	0.0898376	0.0966802	0.112976	0.0826191	0.0788223	0.0979562	0.104285	0.0865505
C	1500	1500	1500	1500	1500	1500	1500	1500
NOV								
A	2.38265	2.26636	2.49042	3.16047	2.88362	2.50139	2.6138	2.40436
B	0.106657	0.11835	0.132389	0.107714	0.113368	0.13106	0.128056	0.109338
C	1500	1500	1500	1500	1500	1500	1500	1500
DEC								
A	2.71088	2.74594	4.04373	4.78406	4.38455	4.33929	3.99768	2.86058
B	0.129119	0.126031	0.0973086	0.0812674	0.0788554	0.0878917	0.102281	0.127515
C	1500	1500	1500	1500	1500	1500	1500	1500

PARAMETERS FOR BORK DISTRIBUTION - CEILING

MILDENHALL

	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	1.30839	1.27207	1.27408	1.60625	1.76174	1.75456	1.76577	1.5348
B	0.310583	0.3356	0.338922	0.267012	0.240944	0.239381	0.191637	0.255201
C	1000	1000	1000	1000	1000	1000	750	1000
FEB								
A	1.47775	1.355	1.47855	1.60004	2.54635	2.01061	2.4177	1.74506
B	0.237236	0.270822	0.290219	0.275686	0.197961	0.263012	0.153079	0.193464
C	1000	1000	1000	1000	1000	1500	1000	1000
MAR								
A	1.91139	1.70871	1.55276	2.97099	4.20686	2.95452	2.30275	2.10618
B	0.135858	0.16512	0.238184	0.122967	0.11004	0.161003	0.169651	0.132652
C	750	750	1000	750	1000	1500	1500	1000
APR								
A	2.05832	2.00722	1.49702	4.47705	5.9435	3.16304	2.51566	2.19584
B	0.128501	0.152758	0.287162	0.104567	0.111809	0.193421	0.176631	0.145498
C	1000	1000	1500	1000	1500	2000	2000	1500
MAY								
A	1.51712	1.41192	1.54777	2.83624	3.65706	4.19026	2.45046	2.07371
B	0.161288	0.223727	0.238533	0.177644	0.177531	0.126876	0.164914	0.116877
C	1500	1500	1500	1500	2000	2000	2500	1500
JUNE								
A	1.3744	1.11891	1.24662	4.20439	3.00784	2.92001	2.61774	1.82875
B	0.183354	0.363059	0.32812	0.0939484	0.212287	0.199357	0.153269	0.167404
C	1500	2500	2000	1000	2000	2500	2500	2000
JULY								
A	1.93586	1.48425	1.38957	3.37174	5.54928	4.42344	3.32202	2.61096
B	0.16427	0.344907	0.444709	0.17589	0.138176	0.156654	0.180851	0.159733
C	2000	3000	3000	1500	2000	2500	3000	2500
AUG								
A	1.28963	1.04058	1.13052	2.56092	4.46614	3.53208	2.72427	1.83053
B	0.223486	0.435193	0.456923	0.195428	0.169605	0.19127	0.16845	0.166338
C	2000	3000	3000	1500	2000	2500	2500	2000
SEPT								
A	1.57001	1.36395	1.20834	2.05565	2.96534	2.98162	2.92189	2.00578
B	0.191244	0.256859	0.434448	0.212642	0.199654	0.167368	0.111385	0.137333
C	2000	2000	3000	1500	2000	2500	2000	2000
OCT								
A	1.12258	1.40885	1.12583	1.48752	2.63153	2.4119	2.53511	1.82853
B	0.313016	0.205267	0.396261	0.265554	0.169322	0.175604	0.117475	0.154639
C	2000	1000	2000	1500	1500	2000	1500	1500
NOV								
A	1.44598	1.55323	1.50475	1.31811	1.85591	1.72753	1.45863	1.52793
B	0.26273	0.211635	0.296099	0.43258	0.258152	0.261071	0.256779	0.225341
C	1500	1000	1500	2500	1500	1500	1500	1500
DEC								
A	1.36233	1.39608	1.96505	1.72688	1.60335	1.5421	1.49478	1.77839
B	0.263455	0.266653	0.188234	0.240821	0.246032	0.265473	0.239419	0.174306
C	1000	1000	750	1000	1000	1000	1000	750

PARAMETERS FOR BURR DISTRIBUTION - CEILING

	NENANA							
	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	1.57126	1.54322	1.55974	1.54368	1.14314	1.21402	1.9098	1.84524
B	0.151781	0.164034	0.172699	0.175968	0.342032	0.34127	0.129185	0.132638
C	2000	2000	2000	2000	5000	5000	2000	2000
FEB	.	.	.	.	.	.	.	.
A	1.91687	2.40634	1.30383	1.33721	1.48051	1.46477	2.04263	2.06861
B	0.123023	0.0941366	0.399532	0.375655	0.314425	0.320553	0.123404	0.116698
C	2000	1500	5000	5000	5000	5000	2000	2000
MAR	.	.	.	.	.	.	.	.
A	2.48668	2.42202	1.45661	1.40397	1.39956	1.60055	1.59184	3.1002
B	0.0740021	0.088953	0.271478	0.232623	0.21734	0.203834	0.208166	0.0595758
C	2000	2000	5000	5000	5000	5000	5000	2000
APR	.	.	.	.	.	.	.	.
A	1.67877	1.74399	1.7264	1.5528	1.53879	1.85991	2.09464	1.84204
B	0.231344	0.296601	0.292007	0.265025	0.247543	0.237159	0.216568	0.20445
C	5000	5000	5000	5000	5000	5000	5000	5000
MAY	.	.	.	.	.	.	.	.
A	2.12076	2.12828	1.97807	1.70084	1.85671	2.04469	2.23966	2.09377
B	0.229611	0.236034	0.231756	0.269365	0.330653	0.317652	0.245899	0.223859
C	5000	5000	5000	5000	5000	5000	5000	5000
JUNE	.	.	.	.	.	.	.	.
A	2.60744	2.47482	2.03383	1.82404	1.84188	2.25148	2.73262	2.77993
B	0.253052	0.258365	0.28464	0.321467	0.379929	0.320524	0.235907	0.218434
C	5000	5000	5000	5000	5000	5000	5000	5000
JULY	.	.	.	.	.	.	.	.
A	1.92973	1.79328	1.47469	2.60928	1.5576	1.87459	2.25049	2.09097
B	0.391996	0.413282	0.465053	0.143127	0.467548	0.396367	0.297681	0.344302
C	5000	5000	5000	2000	5000	5000	5000	5000
AUG	.	.	.	.	.	.	.	.
A	1.98084	1.86355	1.53344	1.41967	3.09293	1.85442	2.19773	2.06461
B	0.406808	0.475221	0.51654	0.495731	0.129269	0.397684	0.339125	0.374384
C	5000	5000	5000	5000	2000	5000	5000	5000
SEPT	.	.	.	.	.	.	.	.
A	1.88882	1.89575	1.30944	1.23051	1.5544	1.75553	2.05974	1.94764
B	0.361433	0.418946	0.953734	0.840101	0.437783	0.400602	0.382935	0.372268
C	5000	5000	10000	10000	5000	5000	5000	5000
OCT	.	.	.	.	.	.	.	.
A	2.29807	2.28455	1.81094	1.76302	1.84142	1.91172	2.26276	2.21897
B	0.151345	0.1553	0.254484	0.24747	0.232561	0.218047	0.144011	0.147407
C	1500	1500	2000	2000	2000	2000	1500	1500
NOV	.	.	.	.	.	.	.	.
A	1.98733	2.03582	1.79886	1.28471	2.0645	2.60441	1.70852	2.07942
B	0.122049	0.123343	0.189267	0.444312	0.156175	0.117461	0.191171	0.122977
C	1500	1500	2000	5000	2000	1500	2000	1500
DEC	.	.	.	.	.	.	.	.
A	1.97201	2.26218	2.56519	2.54644	1.39116	2.10789	2.07389	2.08506
B	0.131914	0.120255	0.109668	0.118064	0.344664	0.135998	0.134551	0.129564
C	2000	2000	2000	2000	5000	2000	2000	2000

PARAMETERS FOR BURR DISTRIBUTION - CEILING

NEW DELHI

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
A	1.62504	1.29306	1.01851	0.8947	1.19693	1.82136	2.80911	1.79454
B	0.107195	0.186525	0.410154	0.348502	0.26959	0.144032	0.0511181	0.120968
C	5000	8000	10000	10000	8000	5000	5000	8000
FEB	.	.	.	.	.	.	.	.
A	3.36191	3.38029	2.01646	3.24193	3.96985	3.02641	1.38454	1.53026
B	0.064668	0.0483771	0.140477	0.0580307	0.051414	0.0688706	0.0903821	0.134588
C	8000	8000	8000	5000	5000	5000	5000	10000
MAR	.	.	.	.	.	.	.	.
A	1.56896	3.23691	2.30951	2.99152	5.84272	1.92113	1.26594	1.22375
B	0.120308	0.047583	0.0825931	0.0566843	0.0274321	0.0939738	0.105944	0.0941934
C	10000	5000	5000	5000	5000	5000	3000	3000
APR	.	.	.	.	.	.	.	.
A	1.85704	2.38415	2.45075	3.51667	2.69296	1.61684	2.58123	3.28787
B	0.033919	0.0462678	0.0789251	0.0449469	0.065721	0.11886	0.0475614	0.0270844
C	3000	5000	5000	5000	5000	5000	5000	5000
MAY	.	.	.	.	.	.	.	.
A	1.93644	7.5386	3.43747	2.09911	2.18299	3.0489	12.221	12.369
B	0.0614822	0.0168277	0.0439316	0.06885	0.0911213	0.0817383	0.0181493	0.0108742
C	8000	5000	5000	8000	8000	5000	5000	5000
JUNE	.	.	.	.	.	.	.	.
A	1.50267	3.03631	3.05162	5.19389	2.31462	2.19553	2.68672	2.00058
B	0.203069	0.0911715	0.0890816	0.041389	0.110633	0.107609	0.122933	0.125282
C	8000	5000	5000	5000	5000	5000	8000	5000
JULY	.	.	.	.	.	.	.	.
A	1.44955	1.13041	1.08425	1.35168	1.53859	1.62772	1.51121	1.52428
B	0.154408	0.351576	0.559147	0.76188	0.622866	0.316782	0.206825	0.0936027
C	3000	3000	3000	3000	3000	3000	5000	3000
AUG	.	.	.	.	.	.	.	.
A	2.2009	1.29966	1.14126	1.37107	1.93142	1.76274	1.88094	1.9701
B	0.107095	0.26952	0.57213	0.735348	0.290085	0.371697	0.152473	0.113257
C	3000	3000	3000	3000	3000	3000	3000	3000
SEPT	.	.	.	.	.	.	.	.
A	1.38739	1.13876	0.983064	0.990857	0.963111	0.996184	0.990987	1.30493
B	0.12914	0.186998	0.283506	0.302235	0.369164	0.253223	0.30853	0.140564
C	3000	3000	3000	3000	3000	3000	10000	5000
OCT	.	.	.	.	.	.	.	.
A	7.1367	2.73479	1.33999	1.34945	1.11184	1.59666	0.833912	2.34095
B	0.00384678	0.0283393	0.0699091	0.0255754	0.0405549	0.0312338	0.0458067	0.0110501
C	3000	8000	10000	3000	3000	5000	10000	3000
NOV	.	.	.	.	.	.	.	.
A	3.30283	1.99684	2.6666	1.94957	2.61946	2.5732	2.59443	3.81541
B	0.0154543	0.022046	0.0190705	0.699713	1.78437	0.012358	0.0126237	0.0176322
C	8000	8000	10000	100000	100000	8000	10000	10000
DEC	.	.	.	.	.	.	.	.
A	3.52244	1.83416	2.97591	1.52568	2.35204	2.77281	2.46766	2.8612
B	0.0155589	0.0548093	0.0292318	0.122894	0.0626398	0.0753243	0.0545748	0.027728
C	8000	10000	5000	10000	8000	8000	10000	8000

PARAMETERS FOR BURR DISTRIBUTION - CEILING

	ONINAWA							
	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	3.48754	3.97961	3.66202	3.15336	3.11482	2.92951	3.03166	3.87825
B	0.221465	0.196947	0.245328	0.275103	0.296422	0.312677	0.298423	0.214955
C	2500	2500	2500	2500	2500	2500	2500	2500
FEB								
A	2.9878	3.90385	3.64055	2.9877	2.74992	3.02699	3.09013	2.8156
B	0.259172	0.162706	0.19067	0.230734	0.268406	0.246902	0.23674	0.2711
C	2500	2000	2000	2000	2000	2000	2000	2500
MAR								
A	2.65165	2.77421	3.18284	2.64775	2.55164	2.42851	3.10335	2.65332
B	0.204842	0.223507	0.204138	0.234203	0.257961	0.27332	0.162969	0.207326
C	2000	2000	2000	2000	2000	2000	1500	2000
APR								
A	2.17173	1.88099	1.93875	1.58572	2.10833	2.00193	1.92502	1.88608
B	0.193642	0.234398	0.245528	0.32443	0.209058	0.211471	0.205395	0.208859
C	1500	1500	1500	2000	1500	1500	1500	1500
MAY								
A	1.04933	1.25851	1.29205	1.48939	1.8216	1.4061	1.22943	1.3395
B	0.601632	0.39251	0.476142	0.306806	0.22651	0.427786	0.604754	0.371007
C	5000	2500	3000	2000	1500	3000	5000	3000
JUNE								
A	1.336	1.34063	1.25645	1.65193	1.73113	1.49626	1.11407	1.17995
B	0.283342	0.272819	0.372733	0.196716	0.190579	0.256552	0.522432	0.437317
C	2500	2000	3000	1500	1500	2000	5000	5000
JULY								
A	1.57558	1.55505	1.04348	2.35355	3.11732	3.98733	1.19118	1.76924
B	0.0559854	0.060068	0.177901	0.0465066	0.043222	0.0347626	0.139687	0.0470962
C	1500	1500	5000	1000	1000	1000	3000	1500
AUG								
A	1.80588	1.76442	1.95631	2.10114	2.43287	2.91422	2.34441	2.00847
B	0.0588442	0.0642868	0.0561525	0.0758771	0.0766991	0.0600415	0.0554685	0.0471003
C	1000	1000	1000	1000	1000	1000	1000	1000
SEPT								
A	2.02557	1.93493	2.09721	1.83782	1.90389	1.89896	2.12206	1.91657
B	0.0546579	0.0572951	0.0711684	0.0987768	0.110509	0.105129	0.0735913	0.0589406
C	1500	1500	1500	1500	1500	1500	1500	1500
OCT								
A	2.38366	2.09254	2.53292	2.37786	3.0651	2.18988	2.03583	3.23767
B	0.105544	0.118549	0.118568	0.138636	0.0990467	0.161966	0.139396	0.0647155
C	2000	2000	2000	2000	1500	2000	2000	1500
NOV								
A	2.34774	3.18041	2.64818	2.20765	2.42589	2.36082	2.37278	3.01855
B	0.163157	0.106187	0.138474	0.211506	0.195509	0.184765	0.165895	0.12061
C	2500	2000	2000	2500	2000	2000	2000	2000
DEC								
A	3.26277	4.59385	3.45923	3.06433	2.58513	3.79808	3.84823	3.70869
B	0.214347	0.125941	0.187947	0.213328	0.251415	0.145447	0.139341	0.155867
C	3000	2500	2500	2500	2500	2000	2000	2500

PARAMETERS FOR BURR DISTRIBUTION - CEILING

	PATRICK							
	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	1.41414	0.883157	0.968251	1.11371	1.4075	1.58745	1.62451	1.75158
B	0.148359	0.220729	0.225748	0.19415	0.155434	0.125871	0.129583	0.109117
C	3000	3000	3000	3000	3000	3000	3000	3000
FEB								
A	1.52442	1.12385	0.976595	1.31842	1.91801	2.46102	2.50097	1.83373
B	0.125451	0.190856	0.4198	0.225258	0.114539	0.0834469	0.0882977	0.105961
C	3000	3000	8000	5000	3000	3000	3000	3000
MAR								
A	3.14965	1.58374	1.24562	1.69305	2.36799	3.1382	3.9863	2.4451
B	0.0503291	0.104962	0.156173	0.0945286	0.0641722	0.0460964	0.0359793	0.0669357
C	3000	3000	3000	3000	3000	3000	3000	3000
APR								
A	2.35557	1.16326	0.905291	1.55228	3.37202	2.04066	1.84187	2.4279
B	0.0506793	0.115483	0.229237	0.102968	0.0334334	0.0738348	0.103819	0.0560012
C	3000	3000	5000	3000	3000	5000	8000	5000
MAY								
A	3.642	3.112	1.20493	1.52393	1.94574	2.20717	2.13156	2.10019
B	0.0320198	0.0402458	0.244378	0.163755	0.0982162	0.0971461	0.110131	0.0895584
C	3000	3000	10000	8000	5000	5000	5000	5000
JUNE								
A	1.27721	1.08009	1.35866	1.36483	1.64125	1.61361	1.75616	1.99911
B	0.156402	0.118813	0.233762	0.219393	0.114051	0.257001	0.356316	0.171663
C	8000	5000	10000	10000	5000	8000	10000	8000
JULY								
A	4.92845	5.22988	11.6241	5.24622	1.67909	1.86208	2.18385	2.32557
B	0.0297619	0.0236446	0.0159771	0.0377552	0.156705	0.222221	0.263759	0.120009
C	8000	8000	8000	8000	10000	10000	10000	8000
AUG								
A	2.99464	2.31418	2.26812	4.43774	1.00848	1.51241	2.07583	4.27631
B	0.0612607	0.0735453	0.083507	0.0416133	0.118748	0.230886	0.195959	0.0521712
C	8000	10000	10000	8000	10000	10000	10000	8000
SEPT								
A	1.3424	1.36955	1.50669	1.46364	1.88616	1.74464	1.72073	1.57367
B	0.153725	0.197339	0.192142	0.192537	0.168572	0.233382	0.24489	0.170346
C	8000	10000	10000	10000	10000	10000	10000	10000
OCT								
A	2.9056	1.86486	1.56772	1.80756	1.80625	2.16889	1.92856	3.4435
B	0.0589327	0.0892264	0.172036	0.152466	0.146781	0.141844	0.143819	0.0470002
C	3000	3000	5000	5000	5000	5000	5000	3000
NOV								
A	3.99704	3.45871	2.50983	1.43672	2.0479	1.96151	3.46553	2.69274
B	0.0456124	0.0539978	0.0826453	0.255438	0.12817	0.135507	0.0500674	0.0522888
C	3000	3000	3000	8000	5000	5000	3000	3000
DEC								
A	1.49709	1.28316	1.25933	1.32485	2.06813	2.05543	1.48993	1.44417
B	0.105075	0.141278	0.18285	0.177604	0.107983	0.0914346	0.152403	0.145995
C	3000	3000	3000	3000	3000	3000	5000	5000

PARAMETERS FOR BURR DISTRIBUTION - CEILING

	SAIGON							
	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	1.95019	2.34862	1.69421	1.25734	2.1775	1.35031	1.87773	2.52941
B	0.0939956	0.0709997	0.11135	0.143733	0.0824877	0.174644	0.0964886	0.0557893
C	8000	5000	5000	10000	2000	5000	5000	5000
FEB								
A	1.84892	1.62323	1.27863	1.43738	1.88296	1.28751	1.76176	2.16872
B	0.0499301	0.0734726	0.132131	0.0584335	0.0728695	0.127558	0.0555307	0.0283748
C	5000	5000	5000	2000	2000	5000	5000	5000
MAR								
A	1.467	1.47494	1.78355	0.97803	1.23985	1.58333	1.1418	1.64103
B	0.0703841	0.0957348	0.0778859	0.177424	0.203668	0.0416768	0.0575668	0.0302147
C	5000	5000	2000	2000	2000	2000	5000	5000
APR								
A	1.60225	1.31607	1.50684	0.642537	2.09869	1.81314	1.44109	1.72979
B	0.104301	0.132111	0.0808086	0.539794	0.226146	0.0477765	0.111599	0.0606277
C	5000	5000	2000	5000	2000	2000	10000	5000
MAY								
A	1.92814	1.54319	1.11811	1.36365	2.15186	1.31031	2.31371	3.04244
B	0.412685	0.356173	3.22965	0.321059	0.255484	5.89251	0.415178	0.365461
C	10000	10000	100000	2000	2000	100000	10000	10000
JUNE								
A	2.44331	1.80487	1.07605	1.13789	1.85075	1.43945	3.4278	3.16808
B	0.34357	0.318352	3.57237	0.415192	0.266792	9.62221	0.393388	0.345671
C	10000	10000	100000	2000	2000	100000	10000	10000
JULY								
A	2.4939	2.02199	1.20011	1.32144	1.43627	1.26099	3.17653	2.85902
B	0.376899	0.376561	5.50306	0.31326	0.368043	7.36747	0.446616	0.413191
C	10000	10000	100000	2000	2000	100000	10000	10000
AUG								
A	2.73525	1.83598	0.831611	1.40397	1.85712	1.45374	5.12365	4.3585
B	0.448835	0.488927	3.35138	0.403343	0.727088	10.9802	0.372056	0.370672
C	10000	10000	100000	2000	2000	100000	10000	10000
SEPT								
A	2.86307	1.81291	0.829126	1.39534	1.93658	2.52556	4.93236	3.67033
B	0.419151	0.45708	3.48744	0.409335	0.276963	0.531816	0.341263	0.402944
C	10000	10000	100000	2000	2000	10000	10000	10000
OCT								
A	2.02433	1.15322	0.761378	1.28809	1.85453	1.2583	2.55222	3.05986
B	0.41942	3.69201	2.49674	0.255318	0.227465	5.88911	0.437935	0.377428
C	10000	100000	100000	2000	2000	100000	10000	10000
NOV								
A	1.87554	1.64151	0.779457	1.32781	1.54319	0.982085	1.54171	1.56828
B	0.119843	0.140697	2.13724	0.162461	0.237913	2.60124	0.396643	0.296762
C	5000	5000	100000	2000	2000	100000	10000	10000
DEC								
A	2.45903	2.09122	1.10143	1.55618	1.97748	1.42133	1.83495	1.67172
B	0.0833181	0.0839327	0.289163	0.0886276	0.159138	0.244313	0.185068	0.21112
C	5000	5000	8000	2000	2000	5000	5000	8000

PARAMETERS FOR BURR DISTRIBUTION - CEILING

SCOTT								
	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	1.21781	1.1253	1.0821	1.20107	1.29494	1.35819	1.26097	1.13552
B	0.189183	0.21265	0.238918	0.230229	0.199059	0.173851	0.183495	0.19323
C	1000	1000	1000	1000	1000	1000	1000	1000
FEB								
A	1.56993	1.42548	1.43213	1.46437	1.62372	1.76363	1.71715	1.63054
B	0.150082	0.173644	0.187128	0.188311	0.160321	0.14113	0.128545	0.130505
C	1000	1000	1000	1000	1000	1000	1000	1000
MAR								
A	1.80651	1.54684	1.58735	1.92238	2.66552	1.86676	1.78214	1.58417
B	0.116046	0.145515	0.158333	0.135048	0.0967077	0.157844	0.148	0.15834
C	1000	1000	1000	1000	1000	1500	1500	1500
APR								
A	1.56338	1.40154	1.32491	2.63925	2.35738	1.89837	1.9146	1.71971
B	0.158928	0.184066	0.214882	0.0843619	0.118226	0.154002	0.134422	0.134382
C	2000	2000	2000	1000	1500	2000	2000	2000
MAY								
A	1.10485	1.04169	1.00842	1.95085	2.11303	2.69563	2.45514	2.00408
B	0.247247	0.285114	0.340818	0.111863	0.140406	0.0931242	0.0798771	0.0841434
C	5000	5000	5000	1500	2000	2000	2000	2000
JUNE								
A	1.35547	1.26334	1.16637	2.69321	3.07252	1.48157	1.57013	1.46592
B	0.155885	0.208364	0.248459	0.0673712	0.0880098	0.249627	0.177067	0.14343
C	5000	5000	5000	1500	2000	5000	5000	5000
JULY								
A	1.92921	1.39242	1.26032	2.33457	1.51827	1.87835	2.21394	2.2031
B	0.0878363	0.25366	0.333642	0.0745127	0.232375	0.140804	0.101228	0.0771392
C	5000	10000	10000	2000	5000	5000	5000	5000
AUG								
A	1.33987	1.15063	1.11527	1.85197	1.431	1.68041	1.50766	1.93101
B	0.188977	0.262072	0.347391	0.0880058	0.233754	0.145983	0.223522	0.0823145
C	10000	10000	10000	2000	5000	5000	10000	5000
SEPT								
A	1.00779	0.955778	0.845738	1.49507	2.56676	2.0748	1.22668	1.17648
B	0.197513	0.234018	0.434449	0.103576	0.0688255	0.0772925	0.165154	0.160285
C	5000	5000	10000	1500	1500	2000	5000	5000
OCT								
A	1.29256	1.16306	0.959778	1.50758	1.93475	1.70765	1.16569	1.03231
B	0.103014	0.12315	0.278477	0.10566	0.0854744	0.0987865	0.210766	0.200037
C	2000	2000	5000	1500	1500	2000	5000	5000
NOV								
A	1.36306	1.61369	1.81715	1.94853	2.70583	1.92603	1.79715	1.60146
B	0.166611	0.119655	0.121261	0.117351	0.0837518	0.131351	0.129948	0.142056
C	1500	1000	1000	1000	1000	1500	1500	1500
DEC								
A	1.3353	1.28386	1.32875	1.37739	1.58944	1.70658	1.56573	1.42339
B	0.178344	0.192955	0.213147	0.20605	0.174285	0.155138	0.158791	0.171682
C	1000	1000	1000	1000	1000	1000	1000	1000

PARAMETERS FOR BURR DISTRIBUTION - CEILING

	SHEMYA							
	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	3.84206	4.25975	3.77355	2.80265	2.91128	2.84988	4.23585	4.10324
B	0.156545	0.151289	0.165265	0.308888	0.289296	0.309445	0.158858	0.152233
C	750	750	750	1000	1000	1000	750	750
FEB	.	.	.	.	.	.	.	.
A	3.01578	3.35843	3.44059	3.37213	3.31847	3.4678	3.05899	3.1657
B	0.239293	0.233638	0.24092	0.252962	0.253594	0.256178	0.266885	0.223874
C	1000	1000	1000	1000	1000	1000	1000	1000
MAR	.	.	.	.	.	.	.	.
A	2.72759	2.90797	3.10121	2.97375	3.19641	3.45479	3.04445	2.86653
B	0.276076	0.272788	0.27667	0.281003	0.256395	0.24192	0.276848	0.267456
C	1000	1000	1000	1000	1000	1000	1000	1000
APR	.	.	.	.	.	.	.	.
A	2.15305	2.37949	2.34752	2.42111	2.43443	2.32735	2.30863	3.09933
B	0.398737	0.395414	0.40001	0.386022	0.362837	0.383829	0.39389	0.236278
C	1000	1000	1000	1000	1000	1000	1000	750
MAY	.	.	.	.	.	.	.	.
A	2.42863	2.16911	2.04256	2.04289	2.5073	2.4754	2.42832	2.36239
B	0.418116	0.631418	0.666941	0.627855	0.372984	0.374362	0.39274	0.439839
C	750	1000	1000	1000	750	750	750	750
JUNE	.	.	.	.	.	.	.	.
A	1.50571	1.40842	1.54229	1.59877	1.65692	1.78785	1.68743	1.59589
B	1.01465	1.36948	1.02262	0.887735	0.760983	0.709903	0.787749	0.914253
C	750	1000	750	750	750	750	750	750
JULY	.	.	.	.	.	.	.	.
A	1.03929	1.14017	1.13679	1.22695	1.25238	1.26432	1.12725	1.07841
B	1.74389	1.90314	1.73873	1.57156	1.3193	1.2989	1.44187	1.68718
C	750	750	750	750	750	750	750	750
AUG	.	.	.	.	.	.	.	.
A	0.966869	1.03535	1.07572	1.08166	1.1417	1.1104	1.00624	0.96086
B	1.19377	1.25404	1.20518	1.0586	0.892438	0.893514	0.97763	1.09465
C	750	750	750	750	750	750	750	750
SEPT	.	.	.	.	.	.	.	.
A	1.46951	1.60753	1.58701	1.55263	1.52918	1.45111	1.34945	1.39554
B	0.406708	0.382248	0.400217	0.384525	0.345987	0.368353	0.4086	0.403467
C	750	750	750	750	750	750	750	750
OCT	.	.	.	.	.	.	.	.
A	3.93862	3.26914	3.07182	2.86286	2.73669	2.81926	2.97097	2.92626
B	0.124709	0.183018	0.217932	0.235385	0.238507	0.234418	0.22442	0.204434
C	750	1000	1000	1000	1000	1000	1000	1000
NOV	.	.	.	.	.	.	.	.
A	4.79802	5.44898	3.05178	3.0263	3.1913	2.96311	4.23381	4.21258
B	0.111592	0.103572	0.227005	0.247021	0.242985	0.249171	0.137673	0.12975
C	750	750	1000	1000	1000	1000	750	750
DEC	.	.	.	.	.	.	.	.
A	2.89418	2.95779	4.07681	2.66724	3.15884	3.22055	5.33315	3.01993
B	0.214776	0.221655	0.135946	0.292188	0.243813	0.237949	0.106833	0.225662
C	1000	1000	750	1000	1000	1000	750	1000

PARAMETERS FOR BURR DISTRIBUTION - CEILING

	THULE							
	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	1.29527	1.02912	1.15825	1.20826	1.62989	0.889365	1.19501	1.48036
B	0.141362	0.209806	0.15	0.139854	0.110911	0.216571	0.138584	0.115747
C	3000	5000	3000	3000	2500	5000	3000	2500
FEB								
A	1.46675	1.4444	1.5357	1.31657	1.20394	1.09373	1.29176	1.40438
B	0.130965	0.1178	0.120907	0.219306	0.230035	0.249392	0.143517	0.124234
C	3000	3000	3000	5000	5000	5000	3000	3000
MAR								
A	0.898673	0.885528	0.885336	0.912481	1.54656	1.91397	1.91735	1.11943
B	0.149649	0.160567	0.172325	0.136961	0.0667627	0.0481977	0.0573329	0.123243
C	5000	5000	5000	5000	3000	2500	2500	5000
APR								
A	1.63544	1.6059	1.54937	1.7155	1.94035	1.67786	1.70182	1.62925
B	0.0932939	0.0873438	0.0668598	0.0570783	0.0561592	0.0656006	0.0724468	0.0885275
C	3000	3000	2500	2500	3000	3000	3000	3000
MAY								
A	1.00693	1.35099	1.31858	1.1542	1.253	1.22615	1.21505	0.938312
B	0.263373	0.149227	0.141811	0.18017	0.169762	0.163126	0.161549	0.243953
C	2000	1000	1000	1500	1500	1500	1500	2000
JUNE								
A	0.836298	0.821966	0.793198	0.829075	0.894121	0.972006	0.768889	0.818045
B	0.390401	0.431833	0.455435	0.456842	0.371593	0.354803	0.575062	0.347937
C	2000	2500	3000	3000	2500	2500	5000	1500
JULY								
A	0.679583	0.685391	0.772764	0.915975	0.87288	0.814705	0.703402	0.688319
B	0.683425	0.756706	0.731953	0.621121	0.581023	0.544471	0.597271	0.665504
C	5000	5000	5000	5000	5000	5000	5000	5000
AUG								
A	0.894118	0.899826	0.977429	1.04876	1.189	1.19021	1.1787	1.01944
B	0.586867	0.567996	0.535238	0.475727	0.437798	0.430269	0.423324	0.485751
C	5000	5000	5000	5000	5000	5000	5000	5000
SEPT								
A	2.39715	2.13421	2.06653	2.94394	1.90212	2.2747	2.18596	2.04842
B	0.129931	0.152544	0.153684	0.101726	0.155498	0.135514	0.143072	0.155082
C	2000	2000	2000	2000	2000	2000	2000	2000
OCT								
A	2.2348	2.50765	2.50926	2.57929	2.52035	3.6062	3.74753	3.98187
B	0.133965	0.121831	1.32526	0.128806	0.123552	0.0937095	0.0936357	0.064355
C	2000	2000	2000	2000	2000	2000	2000	1500
NOV								
A	2.00368	2.01696	2.38315	2.90471	3.88004	2.72616	2.45643	2.2818
B	0.111891	0.106298	0.0880804	0.069286	0.0600753	0.0942154	0.0952143	0.0998351
C	2000	2000	2000	2000	1500	2000	2000	2000
DEC								
A	2.20277	2.25158	2.50303	2.17268	2.12942	1.97701	2.41998	2.19441
B	0.0805262	0.0764161	0.0611613	0.0674927	0.0929585	0.0817005	0.0697941	0.0786554
C	2000	2000	2000	2000	2500	2000	2000	2000

PARAMETERS FOR BURK DISTRIBUTION - CEILING

	TORREJON							
	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	1.12885	1.09616	1.04468	1.04626	1.5766	2.56676	2.14476	1.59242
B	0.200047	0.228924	0.263609	0.265933	0.169788	0.0915771	0.0974515	0.124356
C	1000	1000	1000	1000	1000	1000	1000	1000
FEB								
A	1.63672	1.97979	1.33328	1.55122	3.94103	1.96574	2.03673	1.86889
B	0.136024	0.0962685	0.15677	0.140171	0.0538932	0.132259	0.113235	0.116616
C	2000	1000	1000	1000	1000	2000	2000	2000
MAR								
A	1.68526	2.76905	1.31471	2.70981	2.37102	1.40659	1.39367	2.36957
B	0.108344	0.0547665	0.193697	0.0694251	0.129055	0.319143	0.285056	0.0787922
C	2000	1000	2000	1000	2000	5000	5000	2000
APR								
A	1.42927	2.69762	1.93512	2.03598	1.2057	1.67666	1.90363	1.72915
B	0.188334	0.0600744	0.0898159	0.0985627	0.312327	0.248041	0.201629	0.157475
C	5000	2000	2000	2000	5000	5000	5000	5000
MAY								
A	1.64861	1.38247	3.01493	2.44965	1.32921	1.65546	1.97459	2.15657
B	0.111722	0.132681	0.0479821	0.0644779	0.238542	0.199807	0.15407	0.111244
C	5000	5000	2000	2000	5000	5000	5000	5000
JUNE								
A	2.57882	2.00656	1.67893	3.81193	1.4226	2.04272	2.39446	2.92435
B	0.0623348	0.0907509	0.123255	0.0304796	0.166843	0.142334	0.102618	0.068695
C	5000	5000	5000	2000	5000	5000	5000	5000
JULY								
A	3.4706	2.58061	1.88894	2.35902	1.62374	1.76078	2.26094	2.7242
B	0.0109103	0.0173658	0.0236435	0.0151867	0.0310974	0.0330585	0.0269643	0.0262045
C	5000	5000	5000	5000	8000	5000	5000	5000
AUG								
A	1.89887	2.67411	1.6712	2.06531	1.03859	2.63851	4.06259	3.27164
B	0.043479	0.018074	0.0373214	0.0288267	0.0329852	0.0315353	0.0191146	0.0180888
C	8000	5000	5000	5000	5000	5000	5000	5000
SEPT								
A	2.09833	1.55448	2.45523	3.03674	1.42245	1.89494	2.44817	2.41272
B	0.0741865	0.111074	0.0496873	0.0398334	0.169702	0.124893	0.0869955	0.0597727
C	5000	5000	2000	2000	5000	5000	5000	5000
OCT								
A	3.32505	1.95504	1.65494	1.87716	2.74764	1.47822	1.58801	1.40836
B	0.050389	0.0904728	0.132568	0.113318	0.0824536	0.228862	0.198978	0.189278
C	2000	2000	2000	2000	2000	5000	5000	5000
NOV								
A	1.39825	1.62133	1.43077	1.71433	3.83366	2.85327	3.27765	1.97842
B	0.16643	0.115649	0.159055	0.131378	0.0616839	0.11244	0.0821449	0.118275
C	2000	1000	1000	1000	1000	2000	2000	2000
DEC								
A	1.12256	1.041	0.852639	0.939058	1.55203	2.29249	1.83412	1.38074
B	0.148732	0.19848	0.229528	0.228853	0.132085	0.0858713	0.0976413	0.122077
C	1000	1000	1000	1000	1000	1000	1000	1000

PARAMETERS FOR BURR DISTRIBUTION - CEILING

	WAKE IS							
	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
JAN								
A	2.08883	2.16749	2.30651	2.53826	2.20769	2.8036	2.20624	1.89639
B	0.102247	0.112328	0.128112	0.106399	0.097739	0.0631669	0.0759445	0.0910278
C	2500	2500	2500	2500	2500	2000	2000	2500
FEB								
A	3.08981	3.80327	3.55746	2.20698	2.06767	2.9371	2.49308	3.30485
B	0.0629516	0.0604121	0.0641302	0.104445	0.101642	0.0595031	0.0663428	0.0555205
C	2000	2000	2000	2500	2500	2000	2000	2000
MAR								
A	2.95051	2.35991	2.53089	3.3356	3.30658	2.45042	2.41147	2.5107
B	0.0562267	0.083103	0.088252	0.0562786	0.0489624	0.0658845	0.0705175	0.0579154
C	2000	2000	2000	2000	2000	2000	2000	2000
APR								
A	2.89476	2.48095	2.90888	3.0121	2.80545	2.18015	1.87269	2.21511
B	0.0614521	0.078187	0.0757366	0.0624049	0.0623633	0.077079	0.0860019	0.0679414
C	2000	2000	20000	2000	2000	2000	2000	2000
MAY								
A	2.36057	1.9007	2.38422	2.12182	2.12672	2.98998	2.60385	2.44171
B	0.055983	0.0860111	0.0710338	0.0713027	0.0636325	0.0451119	0.0491389	0.046852
C	2000	2000	2000	2500	2500	2000	2000	2000
JUNE								
A	2.27978	2.04703	2.20457	2.39809	2.09927	2.62587	1.9259	2.0206
B	0.0381282	0.0621881	0.0628905	0.0456275	0.0525596	0.0391004	0.0611482	0.0353396
C	2000	2500	2500	2000	2000	2000	2500	2000
JULY								
A	1.94872	2.03289	1.94458	1.68937	1.30912	1.39327	1.33565	1.26981
B	0.0575309	0.0621111	0.0756012	0.0800418	0.130198	0.225676	0.197817	0.172995
C	2500	2000	2500	3000	5000	10000	10000	10000
AUG								
A	1.21753	2.14681	1.64796	1.17227	1.36785	1.19481	1.26862	1.19386
B	0.212886	0.0596072	0.0969354	0.257553	0.15884	0.245395	0.229757	0.218405
C	8000	2000	3000	10000	10000	10000	10000	10000
SEPT								
A	1.78923	1.90297	1.90125	1.56876	2.3068	1.28577	1.24148	1.24169
B	0.0552576	0.0502964	0.0547446	0.0786575	0.0478906	0.129202	0.192287	0.113832
C	2000	2000	2000	3000	2000	5000	10000	5000
OCT								
A	2.05511	2.30017	1.74215	1.63996	2.01835	2.1549	1.61798	2.42514
B	0.0612827	0.0600888	0.116453	0.107424	0.0606686	0.0684075	0.102172	0.0508384
C	2000	2000	3000	3000	2000	2000	3000	2000
NOV								
A	2.37916	2.09563	2.25682	2.07797	2.37057	2.27196	2.23125	2.48889
B	0.0480607	0.0638572	0.0563701	0.0633604	0.0521174	0.0548907	0.0573486	0.0446554
C	2000	2000	2000	2000	2000	2000	2000	2000
DEC								
A	1.77594	2.33654	2.44399	2.23321	2.58076	2.17338	2.18823	1.99355
B	0.0774862	0.0630688	0.0738388	0.0806893	0.0595206	0.0700788	0.0676601	0.065264
C	2000	2000	2000	2500	2000	2000	2000	2000