

PROYECTO:		CONSULTORIA PARA ESTUDIO DE RIESGO POR REMOCION EN MASA EN SAN BERNARDO DE BATA DEPARTAMENTO NORTE DE SANTANDER							
COMPARACION DISTRIBUCIONES DE PROBABILIDAD									
PRUEBA DE:		SMIRNOV-KOLMOGOROV [SK]							
DISTRIBUCION:		GUMBEL							
TIPO DE DATOS:		Valores Maximos Mensuales de Caudales (m3/s)							
SITIO:		ESTACION PENA DE LOS MICOS							
Fuente:		IDEAM							
		Cuadro No.							
N	Ao	Valor	Valor Ordenado	Ln[Vr Or]	F(x)	(X-Xmed)/S+uy/sy	T [Aos]	P(x)	F(x)-P(x)
1	1972	305.003	1826.00	7.51	0.9750	3.309	27.863	0.9641	0.0109
2	1973	1496	1509.00	7.32	0.9500	2.527	13.021	0.9232	0.0268
3	1974	1826	1496.00	7.31	0.9250	2.495	12.626	0.9208	0.0042
4	1975	1474	1474.00	7.30	0.9000	2.441	11.986	0.9166	0.0166
5	1976	1509	1234.00	7.12	0.8750	1.848	6.862	0.8543	0.0207
6	1977	1220	1220.00	7.11	0.8500	1.814	6.647	0.8496	0.0004
7	1978	636	1208.00	7.10	0.8250	1.784	6.469	0.8454	0.0204
8	1979	1208	980.00	6.89	0.8000	1.222	3.917	0.7447	0.0553
9	1980	662.6	775.00	6.65	0.7750	0.716	2.586	0.6134	0.1616
10	1981	372.5	773.20	6.65	0.7500	0.711	2.577	0.6120	0.1380
11	1982	502.1	767.60	6.64	0.7250	0.698	2.550	0.6079	0.1171
12	1983	720.8	750.80	6.62	0.7000	0.656	2.470	0.5952	0.1048
13	1984	416.6	745.90	6.61	0.6750	0.644	2.448	0.5914	0.0836
14	1985	521.5	720.80	6.58	0.6500	0.582	2.336	0.5719	0.0781
15	1986	1234	662.60	6.50	0.6250	0.438	2.104	0.5246	0.1004
16	1987	628	649.00	6.48	0.6000	0.405	2.054	0.5132	0.0868
17	1988	431	636.00	6.46	0.5750	0.373	2.009	0.5022	0.0728
18	1989	504	628.00	6.44	0.5500	0.353	1.981	0.4953	0.0547
19	1990	980	618.30	6.43	0.5250	0.329	1.949	0.4870	0.0380
20	1991	618.3	557.00	6.32	0.5000	0.178	1.764	0.4330	0.0670
21	1992	514.7	521.50	6.26	0.4750	0.090	1.670	0.4010	0.0740
22	1993	745.9	514.70	6.24	0.4500	0.073	1.653	0.3949	0.0551
23	1994	775	504.00	6.22	0.4250	0.047	1.627	0.3852	0.0398
24	1995	157.803	502.10	6.22	0.4000	0.042	1.622	0.3835	0.0165
25	1996	649.003	454.60	6.12	0.3750	-0.075	1.516	0.3404	0.0346
26	1997	400	442.10	6.09	0.3500	-0.106	1.491	0.3291	0.0209
27	1998	454.603	431.00	6.07	0.3250	-0.133	1.469	0.3191	0.0059
28	1999	400.003	424.10	6.05	0.3000	-0.150	1.455	0.3129	0.0129
29	2000	557	416.60	6.03	0.2750	-0.169	1.441	0.3062	0.0312
30	2001	346.603	400.00	5.99	0.2500	-0.210	1.411	0.2914	0.0414
31	2002	370.1	400.00	5.99	0.2250	-0.210	1.411	0.2914	0.0664
32	2003	424.1	379.10	5.94	0.2000	-0.261	1.375	0.2730	0.0730
33	2004	379.103	372.50	5.92	0.1750	-0.277	1.365	0.2672	0.0922
34	2005	66.9	370.10	5.91	0.1500	-0.283	1.361	0.2651	0.1151
35	2008	442.1	346.60	5.85	0.1250	-0.341	1.324	0.2449	0.1199
36	2009	750.8	305.00	5.72	0.1000	-0.444	1.266	0.2104	0.1104
37	2010	773.2	282.00	5.64	0.0750	-0.501	1.238	0.1921	0.1171
38	2011	767.6	157.80	5.06	0.0500	-0.807	1.119	0.1063	0.0563
39	2012	282	66.90	4.20	0.0250	-1.031	1.064	0.0605	0.0355
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n			39	39					
Xmed			680.049	6.348					
Sdev			405.275	0.635					
Cs			1.1957	-0.7920					
uy/sy [Gumbel]			0.4815						
SK									0.1616
Tr [aos]		Vr. Mximo							
5		1026.48							
10		1297.43							
25		1639.78							
50		1893.75							
100		2145.85							

PROYECTO:		CONSULTORIA PARA ESTUDIO DE RIESGO POR REMOCION EN MASA EN SAN BERNARDO DE BATA DEPARTAMENTO NORTE DE SANTANDER							
COMPARACION DISTRIBUCIONES DE PROBABILIDAD									
PRUEBA DE:		SMIRNOV-KOLMOGOROV [SK]							
DISTRIBUCION:		NORMAL							
TIPO DE DATOS:		Valores Maximos Mensuales de Caudales (m3/s)							
SITIO:		ESTACION PENA DE LOS MICOS							
Fuente:		IDEAM							
		Cuadro No.							
N	Ao	Valor	Valor Ordenado	Ln[Vr Or]	F(x)	z=(X-Xmed)/S	B	P(x)	F(x)-P(x)
1	1972	305.00	1826.00	7.51	0.9750	2.828	0.003	0.9974	0.0224
2	1973	1496.00	1509.00	7.32	0.9500	2.045	0.020	0.9798	0.0298
3	1974	1826.00	1496.00	7.31	0.9250	2.013	0.022	0.9781	0.0531
4	1975	1474.00	1474.00	7.30	0.9000	1.959	0.025	0.9752	0.0752
5	1976	1509.00	1234.00	7.12	0.8750	1.367	0.086	0.9141	0.0391
6	1977	1220.00	1220.00	7.11	0.8500	1.332	0.091	0.9085	0.0585
7	1978	636.00	1208.00	7.10	0.8250	1.303	0.096	0.9036	0.0786
8	1979	1208.00	980.00	6.89	0.8000	0.740	0.230	0.7704	0.0296
9	1980	662.60	775.00	6.65	0.7750	0.234	0.407	0.5926	0.1824
10	1981	372.50	773.20	6.65	0.7500	0.230	0.409	0.5908	0.1592
11	1982	502.10	767.60	6.64	0.7250	0.216	0.415	0.5854	0.1396
12	1983	720.80	750.80	6.62	0.7000	0.175	0.431	0.5691	0.1309
13	1984	416.60	745.90	6.61	0.6750	0.162	0.436	0.5643	0.1107
14	1985	521.50	720.80	6.58	0.6500	0.101	0.460	0.5398	0.1102
15	1986	1234.00	662.60	6.50	0.6250	-0.043	0.483	0.4830	0.1420
16	1987	628.00	649.00	6.48	0.6000	-0.077	0.470	0.4697	0.1303
17	1988	431.00	636.00	6.46	0.5750	-0.109	0.457	0.4570	0.1180
18	1989	504.00	628.00	6.44	0.5500	-0.128	0.449	0.4491	0.1009
19	1990	980.00	618.30	6.43	0.5250	-0.152	0.440	0.4397	0.0853
20	1991	618.30	557.00	6.32	0.5000	-0.304	0.381	0.3806	0.1194
21	1992	514.70	521.50	6.26	0.4750	-0.391	0.348	0.3476	0.1274
22	1993	745.90	514.70	6.24	0.4500	-0.408	0.341	0.3414	0.1086
23	1994	775.00	504.00	6.22	0.4250	-0.434	0.332	0.3318	0.0932
24	1995	157.80	502.10	6.22	0.4000	-0.439	0.330	0.3301	0.0699
25	1996	649.00	454.60	6.12	0.3750	-0.556	0.289	0.2888	0.0862
26	1997	400.00	442.10	6.09	0.3500	-0.587	0.278	0.2784	0.0716
27	1998	454.60	431.00	6.07	0.3250	-0.615	0.269	0.2693	0.0557
28	1999	400.00	424.10	6.05	0.3000	-0.632	0.264	0.2637	0.0363
29	2000	557.00	416.60	6.03	0.2750	-0.650	0.258	0.2577	0.0173
30	2001	346.60	400.00	5.99	0.2500	-0.691	0.245	0.2447	0.0053
31	2002	370.10	400.00	5.99	0.2250	-0.691	0.245	0.2447	0.0197
32	2003	424.10	379.10	5.94	0.2000	-0.743	0.229	0.2289	0.0289
33	2004	379.10	372.50	5.92	0.1750	-0.759	0.224	0.2240	0.0490
34	2005	66.90	370.10	5.91	0.1500	-0.765	0.222	0.2222	0.0722
35	2008	442.10	346.60	5.85	0.1250	-0.823	0.205	0.2054	0.0804
36	2009	750.80	305.00	5.72	0.1000	-0.925	0.178	0.1776	0.0776
37	2010	773.20	282.00	5.64	0.0750	-0.982	0.163	0.1632	0.0882
38	2011	767.60	157.80	5.06	0.0500	-1.289	0.099	0.0989	0.0489
39	2012	282.00	66.90	4.20	0.0250	-1.513	0.065	0.0651	0.0401
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n			39	39					
Xmed			680.049	6.348					
Sdev			405.275	0.635					
Cs			1.1957	-0.7920					
uy/sy [Gumbel]			0.4815						
SK									0.1824
Tr [aos]	1/Tr	w	z	Vr. Mximo					
5	0.200	1.794	0.841	1021.07					
10	0.100	2.146	1.282	1199.50					
25	0.040	2.537	1.751	1389.72					
50	0.020	2.797	2.054	1512.56					
100	0.010	3.035	2.327	1623.04					

PROYECTO:		CONSULTORIA PARA ESTUDIO DE RIESGO POR REMOCION EN MASA EN SAN BERNARDO DE BATA DEPARTAMENTO NORTE DE SANTANDER							
COMPARACION DISTRIBUCIONES DE PROBABILIDAD									
PRUEBA DE:		SMIRNOV-KOLMOGOROV [SK]							
DISTRIBUCION:		LOG-NORMAL							
TIPO DE DATOS:		Valores Maximos Mensuales de Caudales (m3/s)							
SITIO:		ESTACION PENA DE LOS MICOS							
Fuente:		IDEAM							
		Cuadro No.							
N	Ao	Valor	Valor Ordenado	Ln[Vr Or]	F(x)	z=(X-Xmed)/S	B	P(x)	F(x)-P(x)
1	1972	305.00	1826.00	7.51	0.9750	1.831	0.0333	0.9667	0.0083
2	1973	1496.00	1509.00	7.32	0.9500	1.531	0.0628	0.9372	0.0128
3	1974	1826.00	1496.00	7.31	0.9250	1.517	0.0645	0.9355	0.0105
4	1975	1474.00	1474.00	7.30	0.9000	1.494	0.0675	0.9325	0.0325
5	1976	1509.00	1234.00	7.12	0.8750	1.214	0.1126	0.8874	0.0124
6	1977	1220.00	1220.00	7.11	0.8500	1.196	0.1160	0.8840	0.0340
7	1978	636.00	1208.00	7.10	0.8250	1.180	0.1191	0.8809	0.0559
8	1979	1208.00	980.00	6.89	0.8000	0.851	0.1975	0.8025	0.0025
9	1980	662.60	775.00	6.65	0.7750	0.481	0.3150	0.6850	0.0900
10	1981	372.50	773.20	6.65	0.7500	0.477	0.3163	0.6837	0.0663
11	1982	502.10	767.60	6.64	0.7250	0.466	0.3204	0.6796	0.0454
12	1983	720.80	750.80	6.62	0.7000	0.431	0.3330	0.6670	0.0330
13	1984	416.60	745.90	6.61	0.6750	0.421	0.3368	0.6632	0.0118
14	1985	521.50	720.80	6.58	0.6500	0.367	0.3567	0.6433	0.0067
15	1986	1234.00	662.60	6.50	0.6250	0.234	0.4075	0.5925	0.0325
16	1987	628.00	649.00	6.48	0.6000	0.201	0.4203	0.5797	0.0203
17	1988	431.00	636.00	6.46	0.5750	0.170	0.4329	0.5671	0.0079
18	1989	504.00	628.00	6.44	0.5500	0.150	0.4407	0.5593	0.0093
19	1990	980.00	618.30	6.43	0.5250	0.125	0.4505	0.5495	0.0245
20	1991	618.30	557.00	6.32	0.5000	-0.039	0.4844	0.4844	0.0156
21	1992	514.70	521.50	6.26	0.4750	-0.143	0.4433	0.4433	0.0317
22	1993	745.90	514.70	6.24	0.4500	-0.164	0.4351	0.4351	0.0149
23	1994	775.00	504.00	6.22	0.4250	-0.197	0.4220	0.4220	0.0030
24	1995	157.80	502.10	6.22	0.4000	-0.203	0.4197	0.4197	0.0197
25	1996	649.00	454.60	6.12	0.3750	-0.360	0.3594	0.3594	0.0156
26	1997	400.00	442.10	6.09	0.3500	-0.403	0.3431	0.3431	0.0069
27	1998	454.60	431.00	6.07	0.3250	-0.444	0.3285	0.3285	0.0035
28	1999	400.00	424.10	6.05	0.3000	-0.469	0.3193	0.3193	0.0193
29	2000	557.00	416.60	6.03	0.2750	-0.497	0.3093	0.3093	0.0343
30	2001	346.60	400.00	5.99	0.2500	-0.561	0.2871	0.2871	0.0371
31	2002	370.10	400.00	5.99	0.2250	-0.561	0.2871	0.2871	0.0621
32	2003	424.10	379.10	5.94	0.2000	-0.646	0.2591	0.2591	0.0591
33	2004	379.10	372.50	5.92	0.1750	-0.673	0.2502	0.2502	0.0752
34	2005	66.90	370.10	5.91	0.1500	-0.684	0.2470	0.2470	0.0970
35	2008	442.10	346.60	5.85	0.1250	-0.787	0.2157	0.2157	0.0907
36	2009	750.80	305.00	5.72	0.1000	-0.988	0.1617	0.1617	0.0617
37	2010	773.20	282.00	5.64	0.0750	-1.112	0.1333	0.1333	0.0583
38	2011	767.60	157.80	5.06	0.0500	-2.027	0.0212	0.0212	0.0288
39	2012	282.00	66.90	4.20	0.0250	-3.379	0.0005	0.0005	0.0245
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n			39	39					
Xmed			680.049	6.348					
Sdev			405.275	0.635					
Cs			1.1957	-0.7920					
uy/sy [Gumbel]			0.4815						
SK									0.0970
Tr [aos]	1/Tr	w	z	Vr. Mximo					
5	0.200	1.794	0.841	974.20					
10	0.100	2.146	1.282	1288.23					
25	0.040	2.537	1.751	1735.21					
50	0.020	2.797	2.054	2103.27					
100	0.010	3.035	2.327	2500.50					

PROYECTO:		CONSULTORIA PARA ESTUDIO DE RIESGO POR REMOCION EN MASA EN SAN BERNARDO DE BATA DEPARTAMENTO NORTE DE SANTANDER							
COMPARACION DISTRIBUCIONES DE PROBABILIDAD									
PRUEBA DE:		SMIRNOV-KOLMOGOROV [SK]							
DISTRIBUCION:		LOG-PEARSON III							
TIPO DE DATOS:		Valores Maximos Mensuales de Caudales (m3/s)							
SITIO:		ESTACION PENA DE LOS MICOS							
Fuente:		IDEAM							
		Cuadro No.							
N	Ao	Valor	Valor Ordenado	Ln[Vr Or]	F(x)	z=(X-Xmed)/S	1-P(x)	P(x)	F(x)-P(x)
1	1972	305.00	1826.00	7.51	0.9750	1.831	0.0059	0.9941	0.0191
2	1973	1496.00	1509.00	7.32	0.9500	1.531	0.0294	0.9706	0.0206
3	1974	1826.00	1496.00	7.31	0.9250	1.517	0.0310	0.9690	0.0440
4	1975	1474.00	1474.00	7.30	0.9000	1.494	0.0341	0.9659	0.0659
5	1976	1509.00	1234.00	7.12	0.8750	1.214	0.0879	0.9121	0.0371
6	1977	1220.00	1220.00	7.11	0.8500	1.196	0.0925	0.9075	0.0575
7	1978	636.00	1208.00	7.10	0.8250	1.180	0.0964	0.9036	0.0786
8	1979	1208.00	980.00	6.89	0.8000	0.851	0.2011	0.7989	0.0011
9	1980	662.60	775.00	6.65	0.7750	0.481	0.3505	0.6495	0.1255
10	1981	372.50	773.20	6.65	0.7500	0.477	0.3521	0.6479	0.1021
11	1982	502.10	767.60	6.64	0.7250	0.466	0.3570	0.6430	0.0820
12	1983	720.80	750.80	6.62	0.7000	0.431	0.3720	0.6280	0.0720
13	1984	416.60	745.90	6.61	0.6750	0.421	0.3764	0.6236	0.0514
14	1985	521.50	720.80	6.58	0.6500	0.367	0.3996	0.6004	0.0496
15	1986	1234.00	662.60	6.50	0.6250	0.234	0.4562	0.5438	0.0812
16	1987	628.00	649.00	6.48	0.6000	0.201	0.4703	0.5297	0.0703
17	1988	431.00	636.00	6.46	0.5750	0.170	0.4834	0.5166	0.0584
18	1989	504.00	628.00	6.44	0.5500	0.150	0.4917	0.5083	0.0417
19	1990	980.00	618.30	6.43	0.5250	0.125	0.5019	0.4981	0.0269
20	1991	618.30	557.00	6.32	0.5000	-0.039	0.5684	0.4316	0.0684
21	1992	514.70	521.50	6.26	0.4750	-0.143	0.6082	0.3918	0.0832
22	1993	745.90	514.70	6.24	0.4500	-0.164	0.6157	0.3843	0.0657
23	1994	775.00	504.00	6.22	0.4250	-0.197	0.6278	0.3722	0.0528
24	1995	157.80	502.10	6.22	0.4000	-0.203	0.6300	0.3700	0.0300
25	1996	649.00	454.60	6.12	0.3750	-0.360	0.6842	0.3158	0.0592
26	1997	400.00	442.10	6.09	0.3500	-0.403	0.6985	0.3015	0.0485
27	1998	454.60	431.00	6.07	0.3250	-0.444	0.7114	0.2886	0.0364
28	1999	400.00	424.10	6.05	0.3000	-0.469	0.7191	0.2809	0.0191
29	2000	557.00	416.60	6.03	0.2750	-0.497	0.7276	0.2724	0.0026
30	2001	346.60	400.00	5.99	0.2500	-0.561	0.7464	0.2536	0.0036
31	2002	370.10	400.00	5.99	0.2250	-0.561	0.7464	0.2536	0.0286
32	2003	424.10	379.10	5.94	0.2000	-0.646	0.7700	0.2300	0.0300
33	2004	379.10	372.50	5.92	0.1750	-0.673	0.7773	0.2227	0.0477
34	2005	66.90	370.10	5.91	0.1500	-0.684	0.7800	0.2200	0.0700
35	2008	442.10	346.60	5.85	0.1250	-0.787	0.8056	0.1944	0.0694
36	2009	750.80	305.00	5.72	0.1000	-0.988	0.8500	0.1500	0.0500
37	2010	773.20	282.00	5.64	0.0750	-1.112	0.8730	0.1270	0.0520
38	2011	767.60	157.80	5.06	0.0500	-2.027	0.9731	0.0269	0.0231
39	2012	282.00	66.90	4.20	0.0250	-3.379	1.0000	0.0000	0.0250
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n			39	39					
Xmed			680.049	6.348					
Sdev			405.275	0.635					
Cs			1.1957	-0.7920					
uy/sy [Gumbel]			0.4815						
SK									0.1255
Tr [aos]	1/Tr	w	z	k	Kt	Vr. Mximo			
5	0.200	1.794	0.841	-0.1320	0.8537	981.80			
10	0.100	2.146	1.282	-0.1320	1.1663	1197.22			
25	0.040	2.537	1.751	-0.1320	1.4537	1436.83			
50	0.020	2.797	2.054	-0.1320	1.6159	1592.60			
100	0.010	3.035	2.327	-0.1320	1.7470	1730.78			

PROYECTO: CONSULTORÍA PARA ESTUDIO DE RIESGO POR REMOCIÓN EN MASA EN SAN BERNARDO DE BATA DEPARTAMENTO NORTE DE SANTANDER												
COMPARACIÓN DISTRIBUCIONES DE PROBABILIDAD PRUEBA DE: X2 DISTRIBUCIÓN: LOG-PEARSON III								Cuadro No.				
TIPO DE DATOS: Valores Máximos Mensuales de Caudales (m3/s) SITIO: ESTACIÓN PEÑA DE LOS MICOS												
Fuente: IDEAM												
N	Año	Valor	Valor Ordenado	Ln[Vr Or]	Intervalo	Xmin	Xmax	N	P(x)min	P(x)max	E(x)	X2
1	1972	305.00	1826.00	7.51	1	4.20	4.53	1.00	0.0000	0.0017	0.066	13.290
2	1973	1496.00	1509.00	7.32	2	4.53	4.86	1.00	0.0017	0.0128	0.434	0.737
3	1974	1826.00	1496.00	7.31	3	4.86	5.20	1.00	0.0128	0.0411	1.101	0.009
4	1975	1474.00	1474.00	7.30	4	5.20	5.53	1.00	0.0411	0.0977	2.211	0.663
5	1976	1509.00	1234.00	7.12	5	5.53	5.86	3.00	0.0977	0.1972	3.879	0.199
6	1977	1220.00	1220.00	7.11	6	5.86	6.19	10.00	0.1972	0.3523	6.048	2.583
7	1978	636.00	1208.00	7.10	7	6.19	6.52	10.00	0.3523	0.5583	8.036	0.480
8	1979	1208.00	980.00	6.89	8	6.52	6.85	6.00	0.5583	0.7758	8.482	0.726
9	1980	662.60	775.00	6.65	9	6.85	7.18	4.00	0.7758	0.9342	6.175	0.766
10	1981	372.50	773.20	6.65	10	7.18	7.51	4.00	0.9342	0.9941	2.338	1.181
11	1982	502.10	767.60	6.64								
12	1983	720.80	750.80	6.62								
13	1984	416.60	745.90	6.61								
14	1985	521.50	720.80	6.58								
15	1986	1234.00	662.60	6.50								
16	1987	628.00	649.00	6.48								
17	1988	431.00	636.00	6.46								
18	1989	504.00	628.00	6.44								
19	1990	980.00	618.30	6.43								
20	1991	618.30	557.00	6.32								
21	1992	514.70	521.50	6.26								
22	1993	745.90	514.70	6.24								
23	1994	775.00	504.00	6.22								
24	1995	157.80	502.10	6.22								
25	1996	649.00	454.60	6.12								
26	1997	400.00	442.10	6.09								
27	1998	454.60	431.00	6.07								
28	1999	400.00	424.10	6.05								
29	2000	557.00	416.60	6.03								
30	2001	346.60	400.00	5.99								
31	2002	370.10	400.00	5.99								
32	2003	424.10	379.10	5.94								
33	2004	379.10	372.50	5.92								
34	2005	66.90	370.10	5.91								
35	2008	442.10	346.60	5.85								
36	2009	750.80	305.00	5.72								
37	2010	773.20	282.00	5.64								
38	2011	767.60	157.80	5.06								
39	2012	282.00	66.90	4.20								
40												
41												
42												
43												
44												
45												
46												
47												
48												
49												
50												
n			39	39								
Xmed			680.049	6.348								
Sdev			405.275	0.635								
Cs			1.1957	-0.7920								
uy/sy [Gumbel]			0.4815									
Xmax			1826.00	7.510								
Xmin			66.90	4.203								
Incremento			175.91	0.331								
X2												20.636
Tr [años]	1/Tr	w	z	k	Kt	Vr. Máximo						
5	0.200	1.794	0.841	-0.1320	0.8537	981.80						
10	0.100	2.146	1.282	-0.1320	1.1663	1197.22						
25	0.040	2.537	1.751	-0.1320	1.4537	1436.83						
50	0.020	2.797	2.054	-0.1320	1.6159	1592.60						
100	0.010	3.035	2.327	-0.1320	1.7470	1730.78						

PROYECTO:	CONSULTORÍA PARA ESTUDIO DE RIESGO POR REMOCIÓN EN MASA EN SAN BERNARDO DE BATA	Cuadro No.
	DEPARTAMENTO NORTE DE SANTANDER	
RESUMEN COMPARACIÓN DISTRIBUCIONES DE PROBABILIDAD		
PRUEBAS DE:	SMIRNOV-KOLMOGOROV [SK] Y X2	
DISTRIBUCIONES:	GUMBEL, NORMAL, LOG-NORMAL Y LOG-PEARSON III	
TIPO DE DATOS:	Valores Máximos Mensuales de Caudales (m3/s)	
SITIO:	ESTACIÓN PEÑA DE LOS MICOS	
Fuente:	IDEAM	

DISTRIBUCIÓN	COMPARACIÓN DE DISTRIBUCIONES						VALOR MÁXIMO				
							Tr [Años]				
	SK	SK max	Aceptación	X2	X2 max	Aceptación	5	10	25	50	100
GUMBEL	0.1616	0.213	SI	10.564	25.70	SI	1026.48	1297.43	1639.78	1893.75	2145.85
NORMAL	0.1824	0.213	SI	17.793	25.70	SI	1021.07	1199.50	1389.72	1512.56	1623.04
LOG-NORMAL	0.0970	0.213	SI	18.363	25.70	SI	974.20	1288.23	1735.21	2103.27	2500.50
LOG-PEARSON III	0.1255	0.213	SI	20.636	25.70	SI	981.80	1197.22	1436.83	1592.60	1730.78

* Seleccionada