

ANEXOS

Tabla 1. Modelación Hidráulica de caudales de diseño para el evento en estudio, diferentes períodos de retorno y alturas según entrevistas.

Estación	Perfil	Q Total (m3/s)	Min Ch El (m)	W.S Elev (m)	Crit W.S (m)	E.G Elev (m)	E.G Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
1650	Huracán Tomas 19,9	19.9	1472.43	1474.16	1474.2	1474.69	0.036691	3.23	6.16	5.7	0.99
	T =2 años	24.2	1472.43	1474.33	1474.3	1474.91	0.035888	3.37	7.19	6.09	0.99
	T= 10 años	41.8	1472.43	1474.9	1474.9	1475.64	0.032159	3.83	11.04	7.69	0.98
	T= 25 años	52.6	1472.43	1475.16	1475.2	1476	0.031355	4.07	13.22	8.5	0.98
	T=50 años	60.6	1472.43	1475.38	1475.4	1476.24	0.029077	4.13	15.14	9.15	0.96
	Alturas	60	1472.43	1475.35	1475.4	1476.22	0.02994	4.16	14.86	9.06	0.97
1600	Huracán Tomas 19,9	19.9	1467	1468.05	1468.7	1470.47	0.300752	6.9	2.88	4.36	2.71
	T =2 años	24.2	1467	1468.16	1468.9	1470.78	0.289849	7.18	3.37	4.65	2.69
	T= 10 años	41.8	1467	1468.51	1469.4	1471.83	0.269672	8.08	5.18	5.58	2.68
	T= 25 años	52.6	1467	1468.69	1469.7	1472.29	0.255174	8.4	6.26	6.07	2.64
	T=50 años	60.6	1467	1468.8	1469.8	1472.68	0.256499	8.73	6.94	6.36	2.67
	Alturas	60	1467	1468.8	1469.9	1472.62	0.25237	8.65	6.94	6.36	2.64
1562.2	Huracán Tomas 19,9	19.9	1463.3	1464.95	1464.7	1465.36	0.025336	2.85	6.98	5.3	0.79
	T =2 años	24.2	1463.3	1464.7	1464.9	1465.62	0.06753	4.27	5.67	5.13	1.29
	T= 10 años	41.8	1463.3	1465.17	1465.6	1466.5	0.071999	5.1	8.2	5.52	1.34
	T= 25 años	52.6	1463.3	1465.45	1465.9	1466.91	0.074291	5.35	9.83	6.36	1.37
	T=50 años	60.6	1463.3	1465.62	1466.4	1467.18	0.075754	5.53	10.97	6.88	1.4
	Alturas	60	1463.3	1465.61	1466.4	1467.16	0.075714	5.51	10.88	6.84	1.4
1561.3	Huracán Tomas 19,9	19.9	1463.21	1464.97	1464.7	1465.32	0.020102	2.62	7.58	5.33	0.7
	T =2 años	24.2	1463.21	1465.18	1464.8	1465.57	0.02097	2.78	8.71	5.75	0.72
	T= 10 años	41.8	1463.21	1465.97	1465.5	1466.4	0.016212	2.94	15.29	16.76	0.67
	T= 25 años	52.6	1463.21	1465.35	1465.8	1466.84	0.076526	5.41	9.73	6.27	1.39

	T=50 años	60.6	1463.21	1465.52	1466.4	1467.1	0.077748	5.57	10.87	6.81	1.41
	Alturas	60	1463.21	1465.51	1466.3	1467.08	0.077713	5.56	10.78	6.77	1.41
1558.8		Bridge									
1556.3	Huracán Tomas 19,9	19.9	1462.75	1464.2	1464.2	1464.77	0.039691	3.34	5.96	5.19	0.99
	T =2 años	24.2	1462.75	1464.37	1464.4	1465.01	0.039577	3.53	6.85	5.31	0.99
	T= 10 años	41.8	1462.75	1465.03	1465	1465.79	0.037791	3.86	10.83	7.04	0.99
	T= 25 años	52.6	1462.75	1465.38	1465.4	1466.16	0.029768	3.91	14.05	12.12	0.91
	T=50 años	60.6	1462.75	1465.86	1465.9	1466.31	0.014644	3.18	25.25	30.76	0.66
	Alturas	60	1462.75	1465.85	1465.9	1466.31	0.014626	3.17	25.01	30.72	0.66
1555.5	Huracán Tomas 19,9	19.9	1462.63	1463.97	1464.1	1464.67	0.054095	3.72	5.35	5.12	1.16
	T =2 años	24.2	1462.63	1464.13	1464.3	1464.91	0.052844	3.91	6.19	5.24	1.15
	T= 10 años	41.8	1462.63	1464.75	1464.9	1465.68	0.049042	4.28	9.76	6.62	1.13
	T= 25 años	52.6	1462.63	1465.06	1465.2	1466.05	0.043451	4.4	12.05	8.86	1.08
	T=50 años	60.6	1462.63	1465.55	1465.7	1466.23	0.022086	3.73	19.05	21.3	0.81
	Alturas	60	1462.63	1465.54	1465.7	1466.22	0.022355	3.73	18.72	21.14	0.81
1500	Huracán Tomas 19,9	19.9	1457.56	1458.68	1459.1	1459.88	0.15006	4.86	4.1	6.81	1.99
	T =2 años	24.2	1457.56	1458.76	1459.2	1460.13	0.151453	5.2	4.66	7.2	2.04
	T= 10 años	41.8	1457.56	1459.02	1459.7	1461.05	0.143835	6.35	6.79	8.67	2.1
	T= 25 años	52.6	1457.56	1459.14	1460	1461.59	0.147982	6.99	7.89	9.16	2.17
	T=50 años	60.6	1457.56	1459.11	1460.1	1462.59	0.218677	8.33	7.6	9.04	2.63
	Alturas	60	1457.56	1459.11	1460.1	1462.56	0.218786	8.3	7.54	9.01	2.63
1450	Huracán Tomas 19,9	19.9	1452.61	1453.71	1454	1454.61	0.076958	4.42	5.06	6.86	1.49
	T =2 años	24.2	1452.61	1453.82	1454.1	1454.83	0.07704	4.7	5.83	7.22	1.5
	T= 10 años	41.8	1452.61	1454.17	1454.6	1455.59	0.082881	5.68	8.54	8.35	1.59
	T= 25 años	52.6	1452.61	1454.35	1454.9	1455.97	0.084076	6.09	10.11	8.94	1.61

	T=50 años	60.6	1452.61	1454.52	1455	1456.13	0.075973	6.1	11.72	9.5	1.54
	Alturas	60	1452.61	1454.51	1455	1456.11	0.075802	6.08	11.64	9.47	1.54
1400	Huracán Tomas 19,9	19.9	1448.13	1449.23	1449.6	1450.2	0.099839	4.45	4.84	9.01	1.69
	T =2 años	24.2	1448.13	1449.31	1449.7	1450.41	0.099591	4.78	5.6	9.68	1.72
	T= 10 años	41.8	1448.13	1449.59	1450.1	1451.1	0.095543	5.72	8.57	11.6	1.77
	T= 25 años	52.6	1448.13	1449.72	1450.3	1451.44	0.095059	6.18	10.17	12.08	1.8
	T=50 años	60.6	1448.13	1449.8	1450.4	1451.72	0.099177	6.58	11.1	12.35	1.86
	Alturas	60	1448.13	1449.79	1450.4	1451.71	0.099331	6.56	11.02	12.33	1.86
1350	Huracán Tomas 19,9	19.9	1442.9	1443.62	1443.9	1444.63	0.124713	4.5	4.54	7.91	1.86
	T =2 años	24.2	1442.9	1443.7	1444.1	1444.85	0.124666	4.81	5.18	8.18	1.89
	T= 10 años	41.8	1442.9	1443.97	1444.5	1445.62	0.125592	5.77	7.52	9.09	1.97
	T= 25 años	52.6	1442.9	1444.11	1444.7	1446.01	0.124135	6.19	8.86	9.58	2
	T=50 años	60.6	1442.9	1444.22	1444.9	1446.24	0.120653	6.4	9.89	9.94	1.99
	Alturas	60	1442.9	1444.21	1444.8	1446.22	0.120609	6.38	9.82	9.92	1.99
1304.9	Huracán Tomas 19,9	19.9	1438.57	1439.94	1440.2	1440.73	0.061234	4.14	5.66	8.96	1.36
	T =2 años	24.2	1438.57	1440.04	1440.3	1440.92	0.061477	4.44	6.58	9.7	1.39
	T= 10 años	41.8	1438.57	1440.36	1440.7	1441.57	0.063057	5.37	10.05	12.1	1.47
	T= 25 años	52.6	1438.57	1440.51	1440.7	1441.89	0.064613	5.83	11.96	13.24	1.51
	T=50 años	60.6	1438.57	1440.61	1440.8	1442.11	0.06627	6.15	13.26	14	1.55
	Alturas	60	1438.57	1440.6	1440.8	1442.1	0.066196	6.13	13.16	13.94	1.55
1250	Huracán Tomas 19,9	19.9	1432.78	1433.88	1434.4	1435.49	0.169086	5.67	3.61	5.67	2.16
	T =2 años	24.2	1432.78	1433.97	1434.5	1435.79	0.160097	6.02	4.18	5.97	2.14
	T= 10 años	41.8	1432.78	1434.33	1435.1	1436.72	0.132991	7	6.5	7.08	2.08
	T= 25 años	52.6	1432.78	1434.52	1435.3	1437.16	0.121486	7.41	7.91	7.65	2.04
	T=50 años	60.6	1432.78	1434.66	1435.8	1437.44	0.11437	7.66	8.96	8.04	2.01
	Alturas	60	1432.78	1434.65	1435.8	1437.42	0.114862	7.64	8.89	8.02	2.01

1185.2	Huracán Tomas 19,9	19.9	1427.38	1428.88	1429	1429.5	0.05364	3.48	5.79	7.74	1.24
	T =2 años	24.2	1427.38	1428.98	1429.2	1429.69	0.056386	3.76	6.57	8.26	1.29
	T= 10 años	41.8	1427.38	1429.28	1429.6	1430.37	0.067332	4.68	9.28	9.88	1.45
	T= 25 años	52.6	1427.38	1429.4	1429.9	1430.77	0.073138	5.25	10.52	10.33	1.54
	T=50 años	60.6	1427.38	1429.48	1430.1	1431.05	0.077118	5.63	11.36	10.62	1.6
	Alturas	60	1427.38	1429.48	1430.1	1431.03	0.076762	5.6	11.3	10.6	1.6
1143.5	Huracán Tomas 19,9	19.9	1424.71	1425.84	1426.1	1426.74	0.081654	4.21	4.73	5.63	1.46
	T =2 años	24.2	1424.71	1425.98	1426.3	1426.95	0.076235	4.35	5.56	5.88	1.43
	T= 10 años	41.8	1424.71	1426.49	1426.8	1427.65	0.062677	4.77	8.77	6.6	1.32
	T= 25 años	52.6	1424.71	1426.77	1427.1	1428.02	0.057922	4.94	10.64	6.88	1.27
	T=50 años	60.6	1424.71	1426.97	1427.2	1428.27	0.054924	5.05	12	7	1.23
	Alturas	60	1424.71	1426.95	1427.2	1428.25	0.055043	5.04	11.91	7	1.23
1134	Huracán Tomas 19,9	19.9	1424.24	1425.72	1425.6	1426.1	0.025583	2.73	7.3	6.6	0.83
	T =2 años	24.2	1424.24	1425.89	1425.7	1426.31	0.024454	2.86	8.46	6.64	0.81
	T= 10 años	41.8	1424.24	1426.76	1426.2	1427.2	0.013579	2.94	14.29	8.24	0.64
	T= 25 años	52.6	1424.24	1427.49	1426.5	1427.75	0.005992	2.38	29.8	28.82	0.45
	T=50 años	60.6	1424.24	1427.3	1426.7	1427.76	0.011477	3.14	24.34	26.33	0.61
	Alturas	60	1424.24	1427.3	1426.7	1427.75	0.01126	3.11	24.32	26.33	0.61
1133.6	Huracán Tomas 19,9	19.9	1424.22	1425.69	1425.6	1426.08	0.021414	2.79	7.14	6.59	0.83
	T =2 años	24.2	1424.22	1425.85	1425.7	1426.3	0.020344	2.97	8.15	6.62	0.83
	T= 10 años	41.8	1424.22	1426.69	1426.2	1427.19	0.011781	3.14	13.33	6.75	0.68
	T= 25 años	52.6	1424.22	1427.51	1426.5	1427.74	0.00525	2.26	32.15	29.54	0.42
	T=50 años	60.6	1424.22	1427.35	1426.7	1427.73	0.009533	2.92	27.33	27.51	0.56
	Alturas	60	1424.22	1427.34	1426.7	1427.72	0.009377	2.9	27.28	27.49	0.56
1131.4		Bridge									

1129.2	Huracán Tomas 19,9	19.9	1423.74	1424.99	1425.1	1425.59	0.041084	3.43	5.81	6.31	1.12
	T =2 años	24.2	1423.74	1425.12	1425.2	1425.81	0.041477	3.68	6.58	6.49	1.14
	T= 10 años	41.8	1423.74	1425.38	1425.7	1426.7	0.059177	5.09	8.21	6.67	1.41
	T= 25 años	52.6	1423.74	1425.63	1426	1427.11	0.053092	5.4	9.74	6.7	1.38
	T=50 años	60.6	1423.74	1426.73	1426.2	1427.21	0.012203	3.19	23.77	25.83	0.63
	Alturas	60	1423.74	1426.71	1426.2	1427.2	0.012385	3.2	23.29	25.61	0.63
1128.7	Huracán Tomas 19,9	19.9	1423.68	1424.86	1425	1425.54	0.059339	3.65	5.45	6.19	1.24
	T =2 años	24.2	1423.68	1424.98	1425.2	1425.76	0.060464	3.91	6.19	6.36	1.26
	T= 10 años	41.8	1423.68	1425.6	1425.6	1426.44	0.040269	4.06	10.29	6.71	1.05
	T= 25 años	52.6	1423.68	1425.87	1425.9	1426.83	0.037103	4.35	12.11	6.76	1.03
	T=50 años	60.6	1423.68	1426.14	1426.1	1427.1	0.030707	4.34	14.18	9.79	0.96
	Alturas	60	1423.68	1426.11	1426.1	1427.08	0.031621	4.37	13.9	9.57	0.97
1054.9	Huracán Tomas 19,9	19.9	1415.54	1416.38	1416.8	1417.92	0.201814	5.5	3.62	5.95	2.25
	T =2 años	24.2	1415.54	1416.47	1417	1418.17	0.191051	5.77	4.19	6.06	2.21
	T= 10 años	41.8	1415.54	1418.66	1417.5	1418.85	0.005042	1.98	25.6	25.02	0.39
	T= 25 años	52.6	1415.54	1416.82	1417.7	1420.3	0.260795	8.26	6.37	6.46	2.66
	T=50 años	60.6	1415.54	1416.88	1417.9	1420.99	0.291796	8.98	6.75	6.53	2.82
	Alturas	60	1415.54	1416.88	1417.9	1420.91	0.286046	8.89	6.75	6.53	2.79
1053.6	Huracán Tomas 19,9	19.9	1415.4	1417.26	1416.7	1417.45	0.009279	1.93	10.33	7.14	0.51
	T =2 años	24.2	1415.4	1417.47	1416.8	1417.68	0.009402	2.05	11.79	7.24	0.51
	T= 10 años	41.8	1415.4	1418.69	1417.3	1418.83	0.003854	1.79	28.39	22.22	0.34
	T= 25 años	52.6	1415.4	1416.73	1417.6	1419.89	0.227718	7.88	6.68	6.52	2.49
	T=50 años	60.6	1415.4	1416.79	1417.8	1420.52	0.254733	8.56	7.08	6.59	2.64
	Alturas	60	1415.4	1416.79	1417.8	1420.45	0.250016	8.48	7.08	6.59	2.61
1051.6		Bridge									

1049.6	Huracán Tomas 19,9	19.9	1414.51	1415.46	1415.9	1416.87	0.171117	5.26	3.78	5.78	2.08
	T =2 años	24.2	1414.51	1415.55	1416	1417.14	0.167799	5.57	4.34	5.92	2.08
	T= 10 años	41.8	1414.51	1415.89	1416.5	1418.07	0.161114	6.55	6.39	6.38	2.09
	T= 25 años	52.6	1414.51	1416.22	1416.8	1418.13	0.110053	6.13	8.58	6.88	1.75
	T=50 años	60.6	1414.51	1416.42	1417	1418.3	0.094941	6.08	9.97	7.03	1.63
	Alturas	60	1414.51	1416.42	1416.9	1418.26	0.092848	6.01	9.98	7.04	1.61
1047.7	Huracán Tomas 19,9	19.9	1414.08	1415.07	1415.5	1416.52	0.178032	5.33	3.73	5.73	2.11
	T =2 años	24.2	1414.08	1415.17	1415.7	1416.8	0.175097	5.65	4.28	5.88	2.12
	T= 10 años	41.8	1414.08	1415.5	1416.2	1417.74	0.16918	6.63	6.3	6.37	2.13
	T= 25 años	52.6	1414.08	1415.8	1416.4	1417.87	0.122579	6.38	8.25	6.63	1.82
	T=50 años	60.6	1414.08	1415.99	1416.6	1418.05	0.108266	6.37	9.52	6.79	1.72
	Alturas	60	1414.08	1415.98	1416.6	1418.01	0.106581	6.31	9.5	6.79	1.7
1042.6	Huracán Tomas 19,9	19.9	1412.95	1414.08	1414.5	1415.57	0.192861	5.41	3.68	5.35	2.08
	T =2 años	24.2	1412.95	1414.18	1414.7	1415.86	0.189901	5.74	4.22	5.45	2.08
	T= 10 años	41.8	1412.95	1414.53	1415.2	1416.83	0.18129	6.72	6.22	5.8	2.07
	T= 25 años	52.6	1412.95	1414.8	1415.5	1417.11	0.149595	6.73	7.81	6.07	1.89
	T=50 años	60.6	1412.95	1414.98	1415.7	1417.34	0.137818	6.81	8.89	6.25	1.82
	Alturas	60	1412.95	1414.97	1415.7	1417.31	0.136783	6.78	8.85	6.24	1.82
1000	Huracán Tomas 19,9	19.9	1410.36	1412.28	1412.3	1412.85	0.029233	3.48	6.59	6.94	0.93
	T =2 años	24.2	1410.36	1412.46	1412.5	1413.07	0.027418	3.64	7.88	7.65	0.92
	T= 10 años	41.8	1410.36	1412.91	1413.1	1413.79	0.030207	4.52	11.73	9.46	1.01
	T= 25 años	52.6	1410.36	1413.11	1413.3	1414.15	0.032099	4.96	13.76	10.21	1.06
	T=50 años	60.6	1410.36	1413.24	1413.5	1414.38	0.03356	5.26	15.05	10.3	1.09
	Alturas	60	1410.36	1413.23	1413.5	1414.37	0.033506	5.24	14.95	10.3	1.09

950	Huracán Tomas 19,9	19.9	1406.1	1407.17	1407.7	1409.26	0.319616	6.41	3.11	5.89	2.82
	T =2 años	24.2	1406.1	1407.24	1407.8	1409.6	0.329608	6.8	3.56	6.31	2.89
	T= 10 años	41.8	1406.1	1407.55	1408.3	1410.24	0.267362	7.26	5.76	8.05	2.72
	T= 25 años	52.6	1406.1	1407.7	1408.5	1410.57	0.232981	7.5	7.05	8.91	2.61
	T=50 años	60.6	1406.1	1407.81	1408.6	1410.8	0.208753	7.67	8.01	9.49	2.52
	Alturas	60	1406.1	1407.8	1408.6	1410.78	0.210072	7.66	7.94	9.45	2.52
900	Huracán Tomas 19,9	19.9	1402.08	1403.32	1403.3	1403.72	0.026122	3.14	7.98	10.06	0.94
	T =2 años	24.2	1402.08	1403.24	1403.5	1403.97	0.050467	4.16	7.22	9.6	1.29
	T= 10 años	41.8	1402.08	1403.55	1403.7	1404.62	0.054973	5.16	10.46	11.45	1.4
	T= 25 años	52.6	1402.08	1403.79	1404.2	1405.1	0.056171	5.78	13.33	18.94	1.46
	T=50 años	60.6	1402.08	1403.88	1404.3	1405.35	0.059305	6.17	15.22	23.72	1.51
	Alturas	60	1402.08	1403.87	1404.3	1405.33	0.059082	6.15	15.08	23.41	1.51
850	Huracán Tomas 19,9	19.9	1396.96	1398.13	1398.7	1400.36	0.316797	6.62	3.02	5.57	2.77
	T =2 años	24.2	1396.96	1398.38	1398.9	1399.92	0.138455	5.55	4.57	6.92	1.95
	T= 10 años	41.8	1396.96	1398.73	1399.3	1400.67	0.112505	6.35	7.4	8.87	1.86
	T= 25 años	52.6	1396.96	1398.89	1399.6	1401.12	0.112574	6.89	8.8	9.49	1.9
	T=50 años	60.6	1396.96	1399.01	1399.7	1401.34	0.106091	7.1	10.03	10.07	1.87
	Alturas	60	1396.96	1399	1399.7	1401.32	0.106556	7.09	9.93	10.02	1.88
800	Huracán Tomas 19,9	19.9	1387.56	1388.53	1388.8	1389.63	0.144612	4.9	4.45	7.76	1.99
	T =2 años	24.2	1387.56	1388.49	1389	1390.37	0.271791	6.41	4.12	7.62	2.7
	T= 10 años	41.8	1387.56	1388.68	1389.5	1391.75	0.305182	8.24	5.66	8.24	3
	T= 25 años	52.6	1387.56	1388.8	1389.7	1392.33	0.289949	8.87	6.7	8.64	3
	T=50 años	60.6	1387.56	1388.88	1389.8	1392.82	0.291517	9.4	7.37	8.97	3.05
	Alturas	60	1387.56	1388.87	1389.8	1392.78	0.291446	9.36	7.31	8.93	3.05
750	Huracán Tomas 19,9	19.9	1383.06	1384.11	1384.3	1384.73	0.067157	3.55	5.96	10.66	1.39

	T =2 años	24.2	1383.06	1384.24	1384.4	1384.85	0.053457	3.56	7.35	11.19	1.27
	T= 10 años	41.8	1383.06	1384.5	1384.8	1385.45	0.058548	4.48	10.35	12.24	1.4
	T= 25 años	52.6	1383.06	1384.62	1385	1385.78	0.062606	4.99	11.86	12.73	1.47
	T=50 años	60.6	1383.06	1384.7	1385.1	1386.02	0.065217	5.32	12.91	13.07	1.52
	Alturas	60	1383.06	1384.69	1385.1	1386	0.064991	5.3	12.83	13.04	1.51
700	Huracán Tomas 19,9	19.9	1377.33	1378.63	1379	1379.9	0.144153	5	4.01	6.34	1.96
	T =2 años	24.2	1377.33	1378.67	1379.2	1380.3	0.173386	5.66	4.33	6.59	2.16
	T= 10 años	41.8	1377.33	1379.03	1379.6	1380.95	0.144255	6.19	6.97	8.37	2.07
	T= 25 años	52.6	1377.33	1379.21	1379.9	1381.25	0.133479	6.41	8.55	9.28	2.03
	T=50 años	60.6	1377.33	1379.32	1380.1	1381.46	0.128404	6.57	9.66	9.87	2.01
	Alturas	60	1377.33	1379.31	1380	1381.44	0.128818	6.56	9.58	9.82	2.01
650	Huracán Tomas 19,9	19.9	1371.79	1372.8	1373	1373.5	0.108751	3.7	5.38	10.67	1.66
	T =2 años	24.2	1371.79	1372.89	1373.1	1373.61	0.098767	3.75	6.45	11.69	1.61
	T= 10 años	41.8	1371.79	1373.1	1373.5	1374.18	0.118405	4.6	9.09	13.87	1.81
	T= 25 años	52.6	1371.79	1373.2	1373.6	1374.48	0.128366	5.02	10.47	14.89	1.91
	T=50 años	60.6	1371.79	1373.26	1373.7	1374.69	0.134097	5.29	11.46	15.58	1.97
	Alturas	60	1371.79	1373.26	1373.7	1374.67	0.133604	5.27	11.39	15.53	1.96
600	Huracán Tomas 19,9	19.9	1369.09	1369.88	1369.9	1370.13	0.042506	2.49	9.75	22.4	1.07
	T =2 años	24.2	1369.09	1369.93	1370	1370.22	0.04591	2.66	11.1	24.13	1.12
	T= 10 años	41.8	1369.09	1370.16	1370.2	1370.5	0.044834	2.96	17.25	30.41	1.14
	T= 25 años	52.6	1369.09	1370.26	1370.3	1370.65	0.044853	3.19	20.34	32.53	1.16
	T=50 años	60.6	1369.09	1370.32	1370.4	1370.76	0.045123	3.37	22.41	33.89	1.18
	Alturas	60	1369.09	1370.31	1370.4	1370.75	0.045095	3.36	22.26	33.79	1.18
550	Huracán Tomas 19,9	19.9	1364.72	1365.86	1366.1	1366.77	0.121868	4.23	4.7	8.3	1.79
	T =2 años	24.2	1364.72	1365.97	1366.3	1366.88	0.106172	4.23	5.72	9.16	1.7
	T= 10 años	41.8	1364.72	1366.27	1366.7	1367.49	0.08469	4.9	8.76	11.1	1.62

	T= 25 años	52.6	1364.72	1366.44	1367	1367.77	0.075366	5.16	10.71	12.18	1.57
	T=50 años	60.6	1364.72	1366.56	1367.2	1367.96	0.069854	5.32	12.18	12.93	1.54
	Alturas	60	1364.72	1366.55	1367.1	1367.95	0.070243	5.31	12.07	12.88	1.54
500	Huracán Tomas 19,9	19.9	1359.02	1360.22	1360.6	1361.28	0.098974	4.6	4.52	6.93	1.66
	T =2 años	24.2	1359.02	1360.29	1360.7	1361.56	0.105228	5.05	5.07	7.35	1.74
	T= 10 años	41.8	1359.02	1360.57	1361.2	1362.51	0.114539	6.36	7.31	8.87	1.9
	T= 25 años	52.6	1359.02	1360.71	1361.4	1363.01	0.118526	6.98	8.59	9.63	1.98
	T=50 años	60.6	1359.02	1360.8	1361.6	1363.34	0.120512	7.38	9.51	10.15	2.02
	Alturas	60	1359.02	1360.8	1361.6	1363.32	0.12036	7.35	9.44	10.11	2.01
450	Huracán Tomas 19,9	19.9	1354.88	1356.14	1356.4	1356.99	0.073038	4.07	4.9	6.11	1.42
	T =2 años	24.2	1354.88	1356.26	1356.5	1357.22	0.070242	4.35	5.62	6.51	1.43
	T= 10 años	41.8	1354.88	1356.63	1357.1	1358.04	0.067558	5.31	8.27	7.82	1.48
	T= 25 años	52.6	1354.88	1356.81	1357.3	1358.46	0.066819	5.78	9.8	8.49	1.5
	T=50 años	60.6	1354.88	1356.94	1357.4	1358.75	0.066576	6.08	10.89	8.93	1.52
	Alturas	60	1354.88	1356.93	1357.4	1358.73	0.066595	6.06	10.8	8.9	1.52
428.41	Huracán Tomas 19,9	19.9	1353.28	1354.3	1354.6	1355.15	0.099761	4.1	4.85	7.14	1.59
	T =2 años	24.2	1353.28	1354.38	1354.7	1355.38	0.104094	4.44	5.45	7.26	1.64
	T= 10 años	41.8	1353.28	1354.68	1355.1	1356.18	0.111416	5.43	7.69	7.71	1.74
	T= 25 años	52.6	1353.28	1354.84	1355.4	1356.6	0.113603	5.88	8.94	7.94	1.77
	T=50 años	60.6	1353.28	1354.95	1355.5	1356.88	0.114511	6.16	9.83	8.11	1.79
	Alturas	60	1353.28	1354.94	1355.5	1356.86	0.11443	6.14	9.77	8.1	1.79
406.97	Huracán Tomas 19,9	19.9	1350	1350.85	1351.3	1352.24	0.18728	5.24	3.8	6.66	2.21
	T =2 años	24.2	1350	1350.94	1351.4	1352.47	0.177091	5.49	4.41	6.83	2.18
	T= 10 años	41.8	1350	1351.24	1351.9	1353.29	0.160174	6.34	6.6	7.44	2.15
	T= 25 años	52.6	1350	1351.4	1352.1	1353.72	0.155371	6.74	7.81	7.75	2.14

	T=50 años	60.6	1350	1351.51	1352.3	1354.01	0.152995	7	8.66	7.96	2.14
	Alturas	60	1350	1351.5	1352.3	1353.99	0.153147	6.98	8.6	7.95	2.14
406.74	Huracán Tomas 19,9	19.9	1349.96	1350.82	1351.2	1352.2	0.184995	5.21	3.82	6.67	2.2
	T =2 años	24.2	1349.96	1350.91	1351.4	1352.43	0.175138	5.47	4.43	6.84	2.17
	T= 10 años	41.8	1349.96	1351.21	1351.8	1353.25	0.159598	6.33	6.61	7.44	2.14
	T= 25 años	52.6	1349.96	1351.37	1352.1	1353.68	0.155091	6.73	7.82	7.75	2.14
	T=50 años	60.6	1349.96	1351.48	1352.2	1353.97	0.152869	6.99	8.67	7.96	2.14
	Alturas	60	1349.96	1351.47	1352.2	1353.95	0.153019	6.97	8.6	7.95	2.14
403.74		Bridge									
400.74	Huracán Tomas 19,9	19.9	1349.62	1351.04	1350.9	1351.39	0.023865	2.64	7.55	7.47	0.84
	T =2 años	24.2	1349.62	1351.21	1351.1	1351.59	0.022086	2.72	8.9	7.83	0.81
	T= 10 años	41.8	1349.62	1351.78	1351.5	1352.26	0.018663	3.06	13.79	9.75	0.78
	T= 25 años	52.6	1349.62	1352.08	1351.8	1352.6	0.017166	3.22	16.86	11.04	0.76
	T=50 años	60.6	1349.62	1352.26	1352	1352.82	0.016797	3.34	18.95	11.84	0.76
	Alturas	60	1349.62	1352.25	1351.9	1352.8	0.01667	3.32	18.86	11.81	0.75
400.21	Huracán Tomas 19,9	19.9	1349.59	1350.88	1350.9	1351.35	0.035361	3.02	6.58	7.19	1.01
	T =2 años	24.2	1349.59	1351.02	1351	1351.54	0.034602	3.18	7.6	7.47	1.01
	T= 10 años	41.8	1349.59	1351.49	1351.5	1352.18	0.032862	3.69	11.33	8.6	1.01
	T= 25 años	52.6	1349.59	1351.74	1351.8	1352.51	0.030361	3.9	13.66	9.72	0.99
	T=50 años	60.6	1349.59	1351.93	1351.9	1352.73	0.028358	3.99	15.53	10.54	0.97
	Alturas	60	1349.59	1351.91	1351.9	1352.72	0.028642	3.99	15.36	10.46	0.97
350	Huracán Tomas 19,9	19.9	1346.73	1347.9	1348.2	1348.77	0.07255	4.56	5.63	9.39	1.51
	T =2 años	24.2	1346.73	1347.99	1348.3	1348.96	0.073416	4.88	6.5	9.87	1.54
	T= 10 años	41.8	1346.73	1348.29	1348.7	1349.6	0.075428	5.87	9.72	11.58	1.63
	T= 25 años	52.6	1346.73	1348.43	1348.9	1349.96	0.079509	6.43	11.32	12.26	1.7

	T=50 años	60.6	1346.73	1348.52	1349.1	1350.21	0.082618	6.81	12.4	12.67	1.75
	Alturas	60	1346.73	1348.51	1349	1350.19	0.082158	6.77	12.34	12.64	1.74
300	Huracán Tomas 19,9	19.9	1343.03	1344.08	1344.3	1344.89	0.080227	4.1	5.24	8.44	1.52
	T =2 años	24.2	1343.03	1344.17	1344.5	1345.07	0.079091	4.33	6.1	9.02	1.53
	T= 10 años	41.8	1343.03	1344.48	1344.9	1345.73	0.075782	5.19	9.15	10.88	1.57
	T= 25 años	52.6	1343.03	1344.64	1345.1	1346.05	0.072311	5.55	11.01	11.88	1.57
	T=50 años	60.6	1343.03	1344.75	1345.2	1346.26	0.070245	5.79	12.36	12.56	1.57
	Alturas	60	1343.03	1344.75	1345.2	1346.24	0.070504	5.77	12.25	12.5	1.57
250	Huracán Tomas 19,9	19.9	1340.55	1341.87	1341.9	1342.31	0.033678	3	7.25	10.89	1.02
	T =2 años	24.2	1340.55	1341.96	1342.1	1342.47	0.034405	3.25	8.3	11.55	1.05
	T= 10 años	41.8	1340.55	1342.27	1342.5	1343.02	0.037315	4.05	12.07	13.31	1.15
	T= 25 años	52.6	1340.55	1342.41	1342.7	1343.31	0.039402	4.47	14.03	14.14	1.2
	T=50 años	60.6	1340.55	1342.51	1342.8	1343.51	0.040665	4.75	15.42	14.7	1.23
	Alturas	60	1340.55	1342.5	1342.8	1343.49	0.04055	4.73	15.32	14.66	1.23
200	Huracán Tomas 19,9	19.9	1335.98	1337.03	1337.5	1338.81	0.195045	6.03	3.58	6.96	2.33
	T =2 años	24.2	1335.98	1337.13	1337.8	1339.02	0.176162	6.27	4.29	7.55	2.27
	T= 10 años	41.8	1335.98	1337.47	1338.2	1339.67	0.135171	6.98	7.17	9.45	2.11
	T= 25 años	52.6	1335.98	1337.64	1338.3	1339.97	0.121417	7.29	8.9	10.37	2.05
	T=50 años	60.6	1335.98	1337.74	1338.4	1340.14	0.117647	7.53	11.43	22.69	2.04
	Alturas	60	1335.98	1337.73	1338.4	1340.13	0.117769	7.52	11.29	22.47	2.04
156.43	Huracán Tomas 19,9	19.9	1331.45	1332.75	1332.9	1333.58	0.074237	4.03	4.94	4.99	1.29
	T =2 años	24.2	1331.45	1332.87	1333.1	1333.84	0.078078	4.36	5.55	5.01	1.32
	T= 10 años	41.8	1331.45	1333.33	1333.7	1334.78	0.087112	5.34	7.83	5.09	1.37
	T= 25 años	52.6	1331.45	1333.58	1334	1335.27	0.08943	5.75	9.15	5.13	1.37
	T=50 años	60.6	1331.45	1333.8	1334.2	1335.58	0.086944	5.91	10.25	5.17	1.34
	Alturas	60	1331.45	1333.78	1334.2	1335.56	0.087274	5.91	10.16	5.17	1.34

141.46	Huracán Tomas 19,9	19.9	1329.05	1331.6	1330.4	1331.72	0.004998	1.56	12.8	5.47	0.32
	T =2 años	24.2	1329.05	1331.94	1330.5	1332.08	0.005128	1.65	14.68	5.48	0.32
	T= 10 años	41.8	1329.05	1333.05	1331.1	1333.25	0.005683	1.97	23.05	16.68	0.32
	T= 25 años	52.6	1329.05	1333.62	1331.4	1333.79	0.004367	1.9	35.19	25.88	0.29
	T=50 años	60.6	1329.05	1333.79	1331.6	1333.97	0.004654	2.01	39.74	29.18	0.3
	Alturas	60	1329.05	1334.12	1331.6	1334.23	0.00285	1.65	50.82	35.2	0.24
141.36	Huracán Tomas 19,9	19.9	1329.03	1331.54	1330.4	1331.72	0.003437	1.87	10.66	5.46	0.39
	T =2 años	24.2	1329.03	1331.88	1330.6	1332.08	0.003272	1.99	12.17	5.47	0.39
	T= 10 años	41.8	1329.03	1333.06	1331.3	1333.25	0.005554	1.95	23.42	17.01	0.32
	T= 25 años	52.6	1329.03	1333.63	1331.6	1333.78	0.004251	1.88	35.73	26.16	0.29
	T=50 años	60.6	1329.03	1333.79	1331.8	1333.96	0.004576	2	40.32	30.34	0.3
	Alturas	60	1329.03	1334.12	1331.8	1334.23	0.002768	1.63	51.5	35.25	0.24
138.36		Bridge									
135.36	Huracán Tomas 19,9	19.9	1328.99	1330.91	1330.6	1331.34	0.018164	2.91	6.84	5.23	0.71
	T =2 años	24.2	1328.99	1331.05	1330.8	1331.59	0.021423	3.27	7.4	5.23	0.76
	T= 10 años	41.8	1328.99	1331.36	1331.4	1332.55	0.040923	4.83	8.65	5.24	1.04
	T= 25 años	52.6	1328.99	1332.31	1331.8	1332.84	0.018285	3.22	16.35	6.45	0.58
	T=50 años	60.6	1328.99	1332.84	1332.1	1333.27	0.012634	2.98	23.91	19.57	0.5
	Alturas	60	1328.99	1332.81	1332.1	1333.24	0.012951	2.99	23.28	19	0.5
135.01	Huracán Tomas 19,9	19.9	1328.99	1331	1330.3	1331.23	0.011307	2.11	9.45	5.22	0.5
	T =2 años	24.2	1328.99	1331.17	1330.5	1331.45	0.013075	2.34	10.34	5.22	0.53
	T= 10 años	41.8	1328.99	1330.54	1331.1	1332.34	0.114851	5.96	7.02	5.2	1.64
	T= 25 años	52.6	1328.99	1332.3	1331.4	1332.83	0.018511	3.24	16.27	6.91	0.59
	T=50 años	60.6	1328.99	1332.84	1331.6	1333.26	0.012514	2.97	24.14	19.9	0.5
	Alturas	60	1328.99	1332.81	1331.6	1333.23	0.012837	2.99	23.5	19.32	0.5

100	Huracán Tomas 19,9	19.9	1328.75	1330.19	1330.2	1330.61	0.024211	3.17	8	9.7	0.91
	T =2 años	24.2	1328.75	1330.31	1330.3	1330.78	0.02444	3.39	9.19	9.96	0.93
	T= 10 años	41.8	1328.75	1330.73	1330.7	1331.38	0.024934	4.1	13.54	10.87	0.98
	T= 25 años	52.6	1328.75	1330.73	1330.7	1331.76	0.039574	5.16	13.53	10.86	1.24
	T=50 años	60.6	1328.75	1330.7	1330.7	1332.14	0.05615	6.08	13.21	10.8	1.47
	Alturas	60	1328.75	1330.69	1330.7	1332.12	0.05536	6.03	13.18	10.8	1.46
50	Huracán Tomas 19,9	19.9	1325.98	1326.7	1327	1327.78	0.253364	4.61	4.32	11.97	2.45
	T =2 años	24.2	1325.98	1326.76	1327.1	1327.92	0.244589	4.77	5.07	12.98	2.44
	T= 10 años	41.8	1325.98	1326.94	1327.4	1328.46	0.246139	5.46	7.66	16.12	2.53
	T= 25 años	52.6	1325.98	1327.11	1327.5	1328.37	0.14498	4.96	10.64	17.8	2.02
	T=50 años	60.6	1325.98	1327.24	1327.6	1328.37	0.102928	4.72	12.96	18.8	1.76
	Alturas	60	1325.98	1327.23	1327.6	1328.36	0.104132	4.71	12.83	18.75	1.76

Tabla 2. Comparación de Planes análisis de sensibilidad n de manning.

River Sta	Plan	Q Total	Min Ch El	W.S Elev	Dif Elev	Desv Est	Vel Chnl	Dif Vel	Desv Est	Froude # Chl
		(m3/s)	(m)	(m)			(m/s)			
1650	PlanHT1	19.9	1472.43	1474.16			3.23			0.99
	Plan+10n_2	19.9	1472.43	1474.16	0.00	0.04	3.23	0	0.27	0.99
	Planmenos10n_2	19.9	1472.43	1474.16	0.00	0.19	3.23	0	0.66	0.99
1600	PlanHT1	19.9	1467	1468.05			6.9			2.71
	Plan+10n_2	19.9	1467	1468.12	0.07	0.04	6.17	0.73	0.27	2.34
	Planmenos10n_2	19.9	1467	1467.98	0.07	0.19	7.63	0.73	0.66	3.09
1562.19	PlanHT1	19.9	1463.3	1464.95			2.85			0.79
	Plan+10n_2	19.9	1463.3	1464.97	0.02	0.04	2.8	0.05	0.27	0.77
	Planmenos10n_2	19.9	1463.3	1464.48	0.47	0.19	4.37	1.52	0.66	1.46
1561.3	PlanHT1	19.9	1463.21	1464.97			2.62			0.7
	Plan+10n_2	19.9	1463.21	1464.99	0.02	0.04	2.6	0.02	0.27	0.69

	Planmenos10n_2	19.9	1463.21	1464.36	0.61	0.19	4.46	1.84	0.66	1.5
1558.79		Bridge								
1556.29	PlanHT1	19.9	1462.75	1464.2			3.34			0.99
	Plan+10n_2	19.9	1462.75	1464.2	0.00	0.04	3.34	0	0.27	0.99
	Planmenos10n_2	19.9	1462.75	1464.2	0.00	0.19	3.34	0	0.66	0.99
1554.99	PlanHT1	19.9	1462.63	1463.97			3.72			1.16
	Plan+10n_2	19.9	1462.63	1463.98	0.01	0.04	3.67	0.05	0.27	1.14
	Planmenos10n_2	19.9	1462.63	1463.95	0.02	0.19	3.77	0.05	0.66	1.18
1500	PlanHT1	19.9	1457.56	1458.68			4.86			1.99
	Plan+10n_2	19.9	1457.56	1458.74	0.06	0.04	4.37	0.49	0.27	1.73
	Planmenos10n_2	19.9	1457.56	1458.61	0.07	0.19	5.45	0.59	0.66	2.31
1450	PlanHT1	19.9	1452.61	1453.71			4.42			1.49
	Plan+10n_2	19.9	1452.61	1453.74	0.03	0.04	4.23	0.19	0.27	1.4
	Planmenos10n_2	19.9	1452.61	1453.66	0.05	0.19	4.69	0.27	0.66	1.62
1400	PlanHT1	19.9	1448.13	1449.23			4.45			1.69
	Plan+10n_2	19.9	1448.13	1449.28	0.05	0.04	4.13	0.32	0.27	1.52
	Planmenos10n_2	19.9	1448.13	1449.18	0.05	0.19	4.78	0.33	0.66	1.88
1350	PlanHT1	19.9	1442.9	1443.62			4.5			1.86
	Plan+10n_2	19.9	1442.9	1443.65	0.03	0.04	4.28	0.22	0.27	1.73
	Planmenos10n_2	19.9	1442.9	1443.58	0.04	0.19	4.8	0.3	0.66	2.03
1304.93	PlanHT1	19.9	1438.57	1439.94			4.14			1.36
	Plan+10n_2	19.9	1438.57	1440	0.06	0.04	3.85	0.29	0.27	1.23
	Planmenos10n_2	19.9	1438.57	1439.89	0.05	0.19	4.47	0.33	0.66	1.51
1250	PlanHT1	19.9	1432.78	1433.88			5.67			2.16
	Plan+10n_2	19.9	1432.78	1433.9	0.02	0.04	5.48	0.19	0.27	2.05
	Planmenos10n_2	19.9	1432.78	1433.85	0.03	0.19	5.94	0.27	0.66	2.31
1185.17	PlanHT1	19.9	1427.38	1428.88			3.48			1.24
	Plan+10n_2	19.9	1427.38	1428.95	0.07	0.04	3.19	0.29	0.27	1.1
	Planmenos10n_2	19.9	1427.38	1428.81	0.07	0.19	3.82	0.34	0.66	1.4

1143.46	PlanHT1	19.9	1424.71	1425.84			4.21			1.46
	Plan+10n_2	19.9	1424.71	1425.87	0.03	0.04	4.04	0.17	0.27	1.38
	Planmenos10n_2	19.9	1424.71	1425.8	0.04	0.19	4.43	0.22	0.66	1.57
1134.01	PlanHT1	19.9	1424.24	1425.72			2.73			0.83
	Plan+10n_2	19.9	1424.24	1425.72	0.00	0.04	2.73	0	0.27	0.83
	Planmenos10n_2	19.9	1424.24	1425.41	0.31	0.19	3.75	1.02	0.66	1.29
1133.61	PlanHT1	19.9	1424.22	1425.69			2.79			0.83
	Plan+10n_2	19.9	1424.22	1425.69	0.00	0.04	2.78	0.01	0.27	0.83
	Planmenos10n_2	19.9	1424.22	1425.39	0.30	0.19	3.74	0.95	0.66	1.27
1131.41		Bridge								
1129.20	PlanHT1	19.9	1423.74	1424.99			3.43			1.12
	Plan+10n_2	19.9	1423.74	1425	0.01	0.04	3.4	0.03	0.27	1.11
	Planmenos10n_2	19.9	1423.74	1424.99	0.00	0.19	3.45	0.02	0.66	1.13
1128.7	PlanHT1	19.9	1423.68	1424.86			3.65			1.24
	Plan+10n_2	19.9	1423.68	1424.87	0.01	0.04	3.62	0.03	0.27	1.23
	Planmenos10n_2	19.9	1423.68	1424.85	0.01	0.19	3.69	0.04	0.66	1.26
1054.87	PlanHT1	19.9	1415.54	1416.38			5.5			2.25
	Plan+10n_2	19.9	1415.54	1416.45	0.07	0.04	4.9	0.6	0.27	1.9
	Planmenos10n_2	19.9	1415.54	1416.31	0.07	0.19	6.21	0.71	0.66	2.68
1053.58	PlanHT1	19.9	1415.4	1417.26			1.93			0.51
	Plan+10n_2	19.9	1415.4	1417.27	0.01	0.04	1.91	0.02	0.27	0.51
	Planmenos10n_2	19.9	1415.4	1416.21	1.05	0.19	5.81	3.88	0.66	2.44
1051.57		Bridge								
1049.57	PlanHT1	19.9	1414.51	1415.46			5.26			2.08
	Plan+10n_2	19.9	1414.51	1415.46	0.00	0.04	5.21	0.05	0.27	2.05
	Planmenos10n_2	19.9	1414.51	1415.45	0.01	0.19	5.3	0.04	0.66	2.1
1047.67	PlanHT1	19.9	1414.08	1415.07			5.33			2.11
	Plan+10n_2	19.9	1414.08	1415.09	0.02	0.04	5.18	0.15	0.27	2.03
	Planmenos10n_2	19.9	1414.08	1415.06	0.01	0.19	5.46	0.13	0.66	2.18

1042.6	PlanHT1	19.9	1412.95	1414.08			5.41			2.08
	Plan+10n_2	19.9	1412.95	1414.12	0.04	0.04	5.09	0.32	0.27	1.91
	Planmenos10n_2	19.9	1412.95	1414.04	0.04	0.19	5.68	0.27	0.66	2.23
1000	PlanHT1	19.9	1410.36	1412.28			3.48			0.93
	Plan+10n_2	19.9	1410.36	1412.31	0.03	0.04	3.4	0.08	0.27	0.9
	Planmenos10n_2	19.9	1410.36	1412.21	0.07	0.19	3.71	0.23	0.66	1.02
950	PlanHT1	19.9	1406.1	1407.17			6.41			2.82
	Plan+10n_2	19.9	1406.1	1407.21	0.04	0.04	5.9	0.51	0.27	2.54
	Planmenos10n_2	19.9	1406.1	1407.15	0.02	0.19	6.62	0.21	0.66	2.93
900	PlanHT1	19.9	1402.08	1403.32			3.14			0.94
	Plan+10n_2	19.9	1402.08	1403.2	0.12	0.04	3.59	0.45	0.27	1.13
	Planmenos10n_2	19.9	1402.08	1403.09	0.23	0.19	4.24	1.1	0.66	1.42
850	PlanHT1	19.9	1396.96	1398.13			6.62			2.77
	Plan+10n_2	19.9	1396.96	1398.29	0.16	0.04	5.09	1.53	0.27	1.88
	Planmenos10n_2	19.9	1396.96	1398.24	0.11	0.19	5.52	1.1	0.66	2.12
800	PlanHT1	19.9	1387.56	1388.53			4.9			1.99
	Plan+10n_2	19.9	1387.56	1388.47	0.06	0.04	5.38	0.48	0.27	2.29
	Planmenos10n_2	19.9	1387.56	1388.39	0.14	0.19	6.35	1.45	0.66	2.89
750	PlanHT1	19.9	1383.06	1384.11			3.55			1.39
	Plan+10n_2	19.9	1383.06	1384.2	0.09	0.04	3.1	0.45	0.27	1.14
	Planmenos10n_2	19.9	1383.06	1384.11	0.00	0.19	3.54	0.01	0.66	1.39
700	PlanHT1	19.9	1377.33	1378.63			5			1.96
	Plan+10n_2	19.9	1377.33	1378.6	0.03	0.04	5.2	0.2	0.27	2.06
	Planmenos10n_2	19.9	1377.33	1378.54	0.09	0.19	5.69	0.69	0.66	2.31
650	PlanHT1	19.9	1371.79	1372.8			3.7			1.66
	Plan+10n_2	19.9	1371.79	1372.88	0.08	0.04	3.19	0.51	0.27	1.38
	Planmenos10n_2	19.9	1371.79	1372.77	0.03	0.19	3.88	0.18	0.66	1.77
600	PlanHT1	19.9	1369.09	1369.88			2.49			1.07
	Plan+10n_2	19.9	1369.09	1369.89	0.01	0.04	2.42	0.07	0.27	1.03
	Planmenos10n_2	19.9	1369.09	1369.83	0.05	0.19	2.8	0.31	0.66	1.22

550	PlanHT1	19.9	1364.72	1365.86			4.23			1.79
	Plan+10n_2	19.9	1364.72	1365.92	0.06	0.04	3.81	0.42	0.27	1.58
	Planmenos10n_2	19.9	1364.72	1365.84	0.02	0.19	4.36	0.13	0.66	1.86
500	PlanHT1	19.9	1359.02	1360.22			4.6			1.66
	Plan+10n_2	19.9	1359.02	1360.25	0.03	0.04	4.42	0.18	0.27	1.57
	Planmenos10n_2	19.9	1359.02	1360.15	0.07	0.19	5.05	0.45	0.66	1.9
450	PlanHT1	19.9	1354.88	1356.14			4.07			1.42
	Plan+10n_2	19.9	1354.88	1356.2	0.06	0.04	3.79	0.28	0.27	1.28
	Planmenos10n_2	19.9	1354.88	1356.1	0.04	0.19	4.31	0.24	0.66	1.54
428.407	PlanHT1	19.9	1353.28	1354.3			4.1			1.59
	Plan+10n_2	19.9	1353.28	1354.33	0.03	0.04	3.91	0.19	0.27	1.48
	Planmenos10n_2	19.9	1353.28	1354.25	0.05	0.19	4.4	0.3	0.66	1.76
406.973	PlanHT1	19.9	1350	1350.85			5.24			2.21
	Plan+10n_2	19.9	1350	1350.88	0.03	0.04	4.92	0.32	0.27	2.03
	Planmenos10n_2	19.9	1350	1350.82	0.03	0.19	5.53	0.29	0.66	2.39
406.743	PlanHT1	19.9	1349.96	1350.82			5.21			2.2
	Plan+10n_2	19.9	1349.96	1350.85	0.03	0.04	4.89	0.32	0.27	2.01
	Planmenos10n_2	19.9	1349.96	1350.79	0.03	0.19	5.49	0.28	0.66	2.37
403.743		Bridge								
400.742	PlanHT1	19.9	1349.62	1351.04			2.64			0.84
	Plan+10n_2	19.9	1349.62	1351.06	0.02	0.04	2.57	0.07	0.27	0.81
	Planmenos10n_2	19.9	1349.62	1350.97	0.07	0.19	2.81	0.17	0.66	0.92
400.212	PlanHT1	19.9	1349.59	1350.88			3.02			1.01
	Plan+10n_2	19.9	1349.59	1350.88	0.00	0.04	3.02	0	0.27	1.01
	Planmenos10n_2	19.9	1349.59	1350.88	0.00	0.19	3.02	0	0.66	1.01
350	PlanHT1	19.9	1346.73	1347.9			4.56			1.51
	Plan+10n_2	19.9	1346.73	1347.98	0.08	0.04	4.11	0.45	0.27	1.31
	Planmenos10n_2	19.9	1346.73	1347.84	0.06	0.19	5.05	0.49	0.66	1.73
300	PlanHT1	19.9	1343.03	1344.08			4.1			1.52
	Plan+10n_2	19.9	1343.03	1344.1	0.02	0.04	3.96	0.14	0.27	1.45

	Planmenos10n_2	19.9	1343.03	1344.04	0.04	0.19	4.32	0.22	0.66	1.63
250	PlanHT1	19.9	1340.55	1341.87			3			1.02
	Plan+10n_2	19.9	1340.55	1341.93	0.06	0.04	2.78	0.22	0.27	0.92
	Planmenos10n_2	19.9	1340.55	1341.81	0.06	0.19	3.27	0.27	0.66	1.16
200	PlanHT1	19.9	1335.98	1337.03			6.03			2.33
	Plan+10n_2	19.9	1335.98	1337.04	0.01	0.04	5.97	0.06	0.27	2.3
	Planmenos10n_2	19.9	1335.98	1337.02	0.01	0.19	6.12	0.09	0.66	2.38
156.427	PlanHT1	19.9	1331.45	1332.75			4.03			1.29
	Plan+10n_2	19.9	1331.45	1332.85	0.10	0.04	3.65	0.38	0.27	1.12
	Planmenos10n_2	19.9	1331.45	1332.65	0.10	0.19	4.48	0.45	0.66	1.51
141.455	PlanHT1	19.9	1329.05	1331.6			1.56			0.32
	Plan+10n_2	19.9	1329.05	1331.63	0.03	0.04	1.54	0.02	0.27	0.32
	Planmenos10n_2	19.9	1329.05	1331.39	0.21	0.19	1.71	0.15	0.66	0.37
141.355	PlanHT1	19.9	1329.03	1331.54			1.87			0.39
	Plan+10n_2	19.9	1329.03	1331.57	0.03	0.04	1.84	0.03	0.27	0.38
	Planmenos10n_2	19.9	1329.03	1331.31	0.23	0.19	2.07	0.2	0.66	0.45
138.356		Bridge								
135.356	PlanHT1	19.9	1328.99	1330.91			2.91			0.71
	Plan+10n_2	19.9	1328.99	1331.01	0.10	0.04	2.74	0.17	0.27	0.65
	Planmenos10n_2	19.9	1328.99	1330.31	0.60	0.19	4.44	1.53	0.66	1.33
135.006	PlanHT1	19.9	1328.99	1331			2.11			0.5
	Plan+10n_2	19.9	1328.99	1331.1	0.10	0.04	2	0.11	0.27	0.46
	Planmenos10n_2	19.9	1328.99	1330.91	0.09	0.19	2.23	0.12	0.66	0.54
100	PlanHT1	19.9	1328.75	1330.19			3.17			0.91
	Plan+10n_2	19.9	1328.75	1330.19	0.00	0.04	3.17	0	0.27	0.91
	Planmenos10n_2	19.9	1328.75	1330.19	0.00	0.19	3.17	0	0.66	0.91
50	PlanHT1	19.9	1325.98	1326.7			4.61			2.45
	Plan+10n_2	19.9	1325.98	1326.76	0.06	0.04	3.95	0.66	0.27	2.02
	Planmenos10n_2	19.9	1325.98	1326.65	0.05	0.19	5.29	0.68	0.66	2.91

Tabla 3. Precipitación de la tormenta (Huracán Tomás) para el evento ocurrido el de 0:00 am del 01/11/2010 a 00:00 am del 05/11/2010 cada 5 minutos.

Valores Totales de Lluvia (mm) cada 5 Minutos			
Estación: 84116-Salitrillos de Aserri			
Fecha	Hora_Ini	Hora_Fin	Lluvia
01/11/2010	00:00	00:05	0
	00:05	00:10	0
	00:10	00:15	0
	00:15	00:20	0
	00:20	00:25	0
	00:25	00:30	0
	00:30	00:35	0
	00:35	00:40	0
	00:40	00:45	0
	00:45	00:50	0
	00:50	00:55	0
	00:55	01:00	0
	01:00	01:05	0
	01:05	01:10	0
	01:10	01:15	0
	01:15	01:20	0
	01:20	01:25	0
	01:25	01:30	0
	01:30	01:35	0
	01:35	01:40	0
	01:40	01:45	0
	01:45	01:50	0
	01:50	01:55	0
	01:55	02:00	0
	02:00	02:05	0
	02:05	02:10	0.254
	02:10	02:15	0
	02:15	02:20	0
	02:20	02:25	0
	02:25	02:30	0
	02:30	02:35	0
	02:35	02:40	0
	02:40	02:45	0
	02:45	02:50	0
	02:50	02:55	0

	02:55	03:00	0
	03:00	03:05	0
	03:05	03:10	0
	03:10	03:15	0
	03:15	03:20	0
	03:20	03:25	0
	03:25	03:30	0
	03:30	03:35	0
	03:35	03:40	0
	03:40	03:45	0
	03:45	03:50	0
	03:50	03:55	0
	03:55	04:00	0
	04:00	04:05	0
	04:05	04:10	0
	04:10	04:15	0
	04:15	04:20	0
	04:20	04:25	0
	04:25	04:30	0
	04:30	04:35	0
	04:35	04:40	0
	04:40	04:45	0
	04:45	04:50	0
	04:50	04:55	0
	04:55	05:00	0
	05:00	05:05	0
	05:05	05:10	0
	05:10	05:15	0
	05:15	05:20	0
	05:20	05:25	0
	05:25	05:30	0
	05:30	05:35	0
	05:35	05:40	0
	05:40	05:45	0
	05:45	05:50	0
	05:50	05:55	0
	05:55	06:00	0
	06:00	06:05	0
	06:05	06:10	0
	06:10	06:15	0
	06:15	06:20	0
	06:20	06:25	0

	06:25	06:30	0
	06:30	06:35	0
	06:35	06:40	0
	06:40	06:45	0
	06:45	06:50	0
	06:50	06:55	0
	06:55	07:00	0
	07:00	07:05	0
	07:05	07:10	0
	07:10	07:15	0
	07:15	07:20	0
	07:20	07:25	0
	07:25	07:30	0
	07:30	07:35	0
	07:35	07:40	0
	07:40	07:45	0
	07:45	07:50	0
	07:50	07:55	0
	07:55	08:00	0
	08:00	08:05	0
	08:05	08:10	0
	08:10	08:15	0
	08:15	08:20	0
	08:20	08:25	0
	08:25	08:30	0
	08:30	08:35	0
	08:35	08:40	0
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	15:00	15:05	0
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	15:15	15:20	0
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	15:30	15:35	0
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	15:50	15:55	0.254
	15:55	16:00	0.254
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	16:10	16:15	0
	16:15	16:20	0.508
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	16:25	16:30	0.254
	16:30	16:35	0.254
	16:35	16:40	1.27
	16:40	16:45	1.016
	16:45	16:50	0.254
	16:50	16:55	0.254
	16:55	17:00	0
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	17:05	17:10	0.254
	17:10	17:15	0.254
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	17:25	17:30	0
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	17:35	17:40	0.254
	17:40	17:45	0
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	17:50	17:55	0.254

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	18:05	18:10	0.508
	18:10	18:15	1.016
	18:15	18:20	0.762
	18:20	18:25	0.508
	18:25	18:30	0.508
	18:30	18:35	0.762
	18:35	18:40	0.508
	18:40	18:45	0.762
	18:45	18:50	0.762
	18:50	18:55	1.524
	18:55	19:00	0.762
	19:00	19:05	0.254
	19:05	19:10	0.762
	19:10	19:15	0.254
	19:15	19:20	0.508
	19:20	19:25	0.508
	19:25	19:30	0
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	19:40	19:45	0
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	19:55	20:00	0
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	20:05	20:10	0
	20:10	20:15	0.508
	20:15	20:20	0.508
	20:20	20:25	0.508
	20:25	20:30	0.254
	20:30	20:35	0.254
	20:35	20:40	0.508
	20:40	20:45	1.27
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	20:50	20:55	2.032
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	21:05	21:10	1.016
	21:10	21:15	0.508
	21:15	21:20	0.254
	21:20	21:25	0.254

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	21:40	21:45	0.254
	21:45	21:50	0.762
	21:50	21:55	1.016
	21:55	22:00	0.508
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	22:05	22:10	0.508
	22:10	22:15	0.762
	22:15	22:20	2.032
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	22:25	22:30	1.524
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	22:50	22:55	1.27
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	19:55	20:00	0
	20:00	20:05	0
	20:05	20:10	0
	20:10	20:15	0
	20:15	20:20	0
	20:20	20:25	0
	20:25	20:30	0
	20:30	20:35	0
	20:35	20:40	0
	20:40	20:45	0
	20:45	20:50	0
	20:50	20:55	0
	20:55	21:00	0
	21:00	21:05	0
	21:05	21:10	0
	21:10	21:15	0
	21:15	21:20	0
	21:20	21:25	0
	21:25	21:30	0
	21:30	21:35	0
	21:35	21:40	0
	21:40	21:45	0
	21:45	21:50	0
	21:50	21:55	0

	21:55	22:00	0
	22:00	22:05	0
	22:05	22:10	0
	22:10	22:15	0
	22:15	22:20	0
	22:20	22:25	0
	22:25	22:30	0
	22:30	22:35	0
	22:35	22:40	0
	22:40	22:45	0
	22:45	22:50	0
	22:50	22:55	0
	22:55	23:00	0
	23:00	23:05	0
	23:05	23:10	0
	23:10	23:15	0
	23:15	23:20	0
	23:20	23:25	0
	23:25	23:30	0
	23:30	23:35	0
	23:35	23:40	0
	23:40	23:45	0
	23:45	23:50	0
	23:50	23:55	0
	23:55	00:00	0

Tabla 4. Precipitación de la tormenta de 24 horas para el evento ocurrido el de 3:10 am del 03/11/2010 a 03:10 am del 04/11/2010 (Huracán Tomas) cada 5 minutos

Día	Hora (min)	Precipitación (mm)
03nov2010	03:10	
03nov2010	03:15	0.254
03nov2010	03:20	0.254
03nov2010	03:25	0.254
03nov2010	03:30	0.254
03nov2010	03:35	0.000
03nov2010	03:40	0.000
03nov2010	03:45	0.254
03nov2010	03:50	0.000
03nov2010	03:55	0.254
03nov2010	04:00	0.000
03nov2010	04:05	0.000
03nov2010	04:10	0.254
03nov2010	04:15	0.254
03nov2010	04:20	0.000
03nov2010	04:25	0.000
03nov2010	04:30	0.000
03nov2010	04:35	0.000
03nov2010	04:40	0.254
03nov2010	04:45	0.000
03nov2010	04:50	0.254
03nov2010	04:55	0.000
03nov2010	05:00	1.270
03nov2010	05:05	1.270
03nov2010	05:10	0.508
03nov2010	05:15	0.254
03nov2010	05:20	0.254
03nov2010	05:25	0.508
03nov2010	05:30	0.508
03nov2010	05:35	0.762
03nov2010	05:40	2.794
03nov2010	05:45	1.524
03nov2010	05:50	0.508
03nov2010	05:55	1.016
03nov2010	06:00	1.016
03nov2010	06:05	0.508
03nov2010	06:10	0.508
03nov2010	06:15	0.508
03nov2010	06:20	0.508
03nov2010	06:25	0.508
03nov2010	06:30	0.762
03nov2010	06:35	0.762

03nov2010, 06:40 0.254
03nov2010, 06:45 0.254
03nov2010, 06:50 0.508
03nov2010, 06:55 0.508
03nov2010, 07:00 0.000
03nov2010, 07:05 0.254
03nov2010, 07:10 0.254
03nov2010, 07:15 0.254
03nov2010, 07:20 0.254
03nov2010, 07:25 0.254
03nov2010, 07:30 0.254
03nov2010, 07:35 0.000
03nov2010, 07:40 0.254
03nov2010, 07:45 0.000
03nov2010, 07:50 0.254
03nov2010, 07:55 0.000
03nov2010, 08:00 0.000
03nov2010, 08:05 0.254
03nov2010, 08:10 0.254
03nov2010, 08:15 0.000
03nov2010, 08:20 0.000
03nov2010, 08:25 0.254
03nov2010, 08:30 0.000
03nov2010, 08:35 0.254
03nov2010, 08:40 0.000
03nov2010, 08:45 0.000
03nov2010, 08:50 0.000
03nov2010, 08:55 0.000
03nov2010, 09:00 0.000
03nov2010, 09:05 0.000
03nov2010, 09:10 0.000
03nov2010, 09:15 0.254
03nov2010, 09:20 0.000
03nov2010, 09:25 0.000
03nov2010, 09:30 0.000
03nov2010, 09:35 0.000
03nov2010, 09:40 0.000
03nov2010, 09:45 0.000
03nov2010, 09:50 0.000
03nov2010, 09:55 0.000
03nov2010, 10:00 0.000
03nov2010, 10:05 0.000
03nov2010, 10:10 0.000
03nov2010, 10:15 0.000
03nov2010, 10:20 0.000
03nov2010, 10:25 0.000

03nov2010, 10:30 0.000
03nov2010, 10:35 0.000
03nov2010, 10:40 0.000
03nov2010, 10:45 0.000
03nov2010, 10:50 0.000
03nov2010, 10:55 0.000
03nov2010, 11:00 0.000
03nov2010, 11:05 0.000
03nov2010, 11:10 0.000
03nov2010, 11:15 0.000
03nov2010, 11:20 0.000
03nov2010, 11:25 0.000
03nov2010, 11:30 0.000
03nov2010, 11:35 0.000
03nov2010, 11:40 0.000
03nov2010, 11:45 0.000
03nov2010, 11:50 0.000
03nov2010, 11:55 0.000
03nov2010, 12:00 0.000
03nov2010, 12:05 0.000
03nov2010, 12:10 0.000
03nov2010, 12:15 0.000
03nov2010, 12:20 0.254
03nov2010, 12:25 0.000
03nov2010, 12:30 0.000
03nov2010, 12:35 0.000
03nov2010, 12:40 0.000
03nov2010, 12:45 0.000
03nov2010, 12:50 0.000
03nov2010, 12:55 0.000
03nov2010, 13:00 0.000
03nov2010, 13:05 0.000
03nov2010, 13:10 0.254
03nov2010, 13:15 0.000
03nov2010, 13:20 0.000
03nov2010, 13:25 0.254
03nov2010, 13:30 0.000
03nov2010, 13:35 0.762
03nov2010, 13:40 0.508
03nov2010, 13:45 0.254
03nov2010, 13:50 0.508
03nov2010, 13:55 0.508
03nov2010, 14:00 0.254
03nov2010, 14:05 0.508
03nov2010, 14:10 1.016
03nov2010, 14:15 0.762

03nov2010, 14:20 0.508
03nov2010, 14:25 0.000
03nov2010, 14:30 0.254
03nov2010, 14:35 0.000
03nov2010, 14:40 0.254
03nov2010, 14:45 0.000
03nov2010, 14:50 0.000
03nov2010, 14:55 0.000
03nov2010, 15:00 0.000
03nov2010, 15:05 0.000
03nov2010, 15:10 0.000
03nov2010, 15:15 0.000
03nov2010, 15:20 0.000
03nov2010, 15:25 0.000
03nov2010, 15:30 0.000
03nov2010, 15:35 0.000
03nov2010, 15:40 0.000
03nov2010, 15:45 0.000
03nov2010, 15:50 0.254
03nov2010, 15:55 0.254
03nov2010, 16:00 0.254
03nov2010, 16:05 0.000
03nov2010, 16:10 0.254
03nov2010, 16:15 0.000
03nov2010, 16:20 0.508
03nov2010, 16:25 0.254
03nov2010, 16:30 0.254
03nov2010, 16:35 0.254
03nov2010, 16:40 1.270
03nov2010, 16:45 1.016
03nov2010, 16:50 0.254
03nov2010, 16:55 0.254
03nov2010, 17:00 0.000
03nov2010, 17:05 0.000
03nov2010, 17:10 0.254
03nov2010, 17:15 0.254
03nov2010, 17:20 0.254
03nov2010, 17:25 0.254
03nov2010, 17:30 0.000
03nov2010, 17:35 0.254
03nov2010, 17:40 0.254
03nov2010, 17:45 0.000
03nov2010, 17:50 0.254
03nov2010, 17:55 0.254
03nov2010, 18:00 0.508
03nov2010, 18:05 0.508

03nov2010, 18:10 0.508
03nov2010, 18:15 1.016
03nov2010, 18:20 0.762
03nov2010, 18:25 0.508
03nov2010, 18:30 0.508
03nov2010, 18:35 0.762
03nov2010, 18:40 0.508
03nov2010, 18:45 0.762
03nov2010, 18:50 0.762
03nov2010, 18:55 1.524
03nov2010, 19:00 0.762
03nov2010, 19:05 0.254
03nov2010, 19:10 0.762
03nov2010, 19:15 0.254
03nov2010, 19:20 0.508
03nov2010, 19:25 0.508
03nov2010, 19:30 0.000
03nov2010, 19:35 0.000
03nov2010, 19:40 0.254
03nov2010, 19:45 0.000
03nov2010, 19:50 0.000
03nov2010, 19:55 0.254
03nov2010, 20:00 0.000
03nov2010, 20:05 0.508
03nov2010, 20:10 0.000
03nov2010, 20:15 0.508
03nov2010, 20:20 0.508
03nov2010, 20:25 0.508
03nov2010, 20:30 0.254
03nov2010, 20:35 0.254
03nov2010, 20:40 0.508
03nov2010, 20:45 1.270
03nov2010, 20:50 3.302
03nov2010, 20:55 2.032
03nov2010, 21:00 0.762
03nov2010, 21:05 0.254
03nov2010, 21:10 1.016
03nov2010, 21:15 0.508
03nov2010, 21:20 0.254
03nov2010, 21:25 0.254
03nov2010, 21:30 0.000
03nov2010, 21:35 0.508
03nov2010, 21:40 0.508
03nov2010, 21:45 0.254
03nov2010, 21:50 0.762
03nov2010, 21:55 1.016

03nov2010, 22:00 0.508
03nov2010, 22:05 0.508
03nov2010, 22:10 0.508
03nov2010, 22:15 0.762
03nov2010, 22:20 2.032
03nov2010, 22:25 1.778
03nov2010, 22:30 1.524
03nov2010, 22:35 2.032
03nov2010, 22:40 3.556
03nov2010, 22:45 1.524
03nov2010, 22:50 0.508
03nov2010, 22:55 1.270
03nov2010, 23:00 0.762
03nov2010, 23:05 0.508
03nov2010, 23:10 0.254
03nov2010, 23:15 0.254
03nov2010, 23:20 0.508
03nov2010, 23:25 1.524
03nov2010, 23:30 2.032
03nov2010, 23:35 1.524
03nov2010, 23:40 1.270
03nov2010, 23:45 2.032
03nov2010, 23:50 1.270
03nov2010, 23:55 0.254
04nov2010, 00:00 0.000
04nov2010, 00:05 0.254
04nov2010, 00:10 0.254
04nov2010, 00:15 0.254
04nov2010, 00:20 0.508
04nov2010, 00:25 0.254
04nov2010, 00:30 0.762
04nov2010, 00:35 0.508
04nov2010, 00:40 0.508
04nov2010, 00:45 2.540
04nov2010, 00:50 0.254
04nov2010, 00:55 0.762
04nov2010, 01:00 0.508
04nov2010, 01:05 0.508
04nov2010, 01:10 0.508
04nov2010, 01:15 0.508
04nov2010, 01:20 0.508
04nov2010, 01:25 0.508
04nov2010, 01:30 0.508
04nov2010, 01:35 0.508
04nov2010, 01:40 0.508
04nov2010, 01:45 0.000

04nov2010, 01:50 0.508
04nov2010, 01:55 0.254
04nov2010, 02:00 0.254
04nov2010, 02:05 0.254
04nov2010, 02:10 0.508
04nov2010, 02:15 0.254
04nov2010, 02:20 0.254
04nov2010, 02:25 0.254
04nov2010, 02:30 0.000
04nov2010, 02:35 0.508
04nov2010, 02:40 0.000
04nov2010, 02:45 0.254
04nov2010, 02:50 0.254
04nov2010, 02:55 1.016
04nov2010, 03:00 0.254
04nov2010, 03:05 0.254
04nov2010, 03:10 0.000
Total 110.74 mm

Fuente: ICE, 84116 Salitrillos-Aserri.

Tabla 5. Hietograma para T= 2, 10, 20, 25, 50 y 100 años.

Hora (min)		Período de retorno T= 2 años	Período de retorno T= 10 años	Período de retorno T= 25 años	Período de retorno T= 50 años	Período de retorno T= 100 años
03:10	03:15	T 2	T10	0.28	0.32	0.35
03:15	03:20	0.17	0.24	0.28	0.32	0.35
03:20	03:25	0.17	0.24	0.28	0.32	0.35
03:25	03:30	0.17	0.24	0.28	0.32	0.35
03:30	03:35	0.17	0.24	0.00	0.00	0.00
03:35	03:40	0.00	0.00	0.00	0.00	0.00
03:40	03:45	0.00	0.00	0.28	0.32	0.35
03:45	03:50	0.17	0.24	0.00	0.00	0.00
03:50	03:55	0.00	0.00	0.28	0.32	0.35
03:55	04:00	0.17	0.24	0.00	0.00	0.00
04:00	04:05	0.00	0.00	0.00	0.00	0.00
04:05	04:10	0.00	0.00	0.28	0.32	0.35
04:10	04:15	0.17	0.24	0.28	0.32	0.35
04:15	04:20	0.17	0.24	0.00	0.00	0.00
04:20	04:25	0.00	0.00	0.00	0.00	0.00

04:25	04:30	0.00	0.00	0.00	0.00	0.00
04:30	04:35	0.00	0.00	0.00	0.00	0.00
04:35	04:40	0.00	0.00	0.28	0.32	0.35
04:40	04:45	0.17	0.24	0.00	0.00	0.00
04:45	04:50	0.00	0.00	0.28	0.32	0.35
04:50	04:55	0.17	0.24	0.00	0.00	0.00
04:55	05:00	0.00	0.00	1.42	1.58	1.75
05:00	05:05	0.87	1.22	1.42	1.58	1.75
05:05	05:10	0.87	1.22	0.57	0.63	0.70
05:10	05:15	0.35	0.49	0.28	0.32	0.35
05:15	05:20	0.17	0.24	0.28	0.32	0.35
05:20	05:25	0.17	0.24	0.57	0.63	0.70
05:25	05:30	0.35	0.49	0.57	0.63	0.70
05:30	05:35	0.35	0.49	0.85	0.95	1.05
05:35	05:40	0.52	0.73	3.13	3.48	3.86
05:40	05:45	1.91	2.68	1.71	1.90	2.10
05:45	05:50	1.04	1.46	0.57	0.63	0.70
05:50	05:55	0.35	0.49	1.14	1.27	1.40
05:55	06:00	0.70	0.98	1.14	1.27	1.40
06:00	06:05	0.70	0.98	0.57	0.63	0.70
06:05	06:10	0.35	0.49	0.57	0.63	0.70
06:10	06:15	0.35	0.49	0.57	0.63	0.70
06:15	06:20	0.35	0.49	0.57	0.63	0.70
06:20	06:25	0.35	0.49	0.57	0.63	0.70
06:25	06:30	0.35	0.49	0.85	0.95	1.05
06:30	06:35	0.52	0.73	0.85	0.95	1.05
06:35	06:40	0.52	0.73	0.28	0.32	0.35
06:40	06:45	0.17	0.24	0.28	0.32	0.35
06:45	06:50	0.17	0.24	0.57	0.63	0.70
06:50	06:55	0.35	0.49	0.57	0.63	0.70
06:55	07:00	0.35	0.49	0.00	0.00	0.00
07:00	07:05	0.00	0.00	0.28	0.32	0.35
07:05	07:10	0.17	0.24	0.28	0.32	0.35
07:10	07:15	0.17	0.24	0.28	0.32	0.35
07:15	07:20	0.17	0.24	0.28	0.32	0.35
07:20	07:25	0.17	0.24	0.28	0.32	0.35
07:25	07:30	0.17	0.24	0.28	0.32	0.35
07:30	07:35	0.17	0.24	0.00	0.00	0.00
07:35	07:40	0.00	0.00	0.28	0.32	0.35
07:40	07:45	0.17	0.24	0.00	0.00	0.00
07:45	07:50	0.00	0.00	0.28	0.32	0.35
07:50	07:55	0.17	0.24	0.00	0.00	0.00

07:55	08:00	0.00	0.00	0.00	0.00	0.00
08:00	08:05	0.00	0.00	0.28	0.32	0.35
08:05	08:10	0.17	0.24	0.28	0.32	0.35
08:10	08:15	0.17	0.24	0.00	0.00	0.00
08:15	08:20	0.00	0.00	0.00	0.00	0.00
08:20	08:25	0.00	0.00	0.28	0.32	0.35
08:25	08:30	0.17	0.24	0.00	0.00	0.00
08:30	08:35	0.00	0.00	0.28	0.32	0.35
08:35	08:40	0.17	0.24	0.00	0.00	0.00
08:40	08:45	0.00	0.00	0.00	0.00	0.00
08:45	08:50	0.00	0.00	0.00	0.00	0.00
08:50	08:55	0.00	0.00	0.00	0.00	0.00
08:55	09:00	0.00	0.00	0.00	0.00	0.00
09:00	09:05	0.00	0.00	0.00	0.00	0.00
09:05	09:10	0.00	0.00	0.00	0.00	0.00
09:10	09:15	0.00	0.00	0.28	0.32	0.35
09:15	09:20	0.17	0.24	0.00	0.00	0.00
09:20	09:25	0.00	0.00	0.00	0.00	0.00
09:25	09:30	0.00	0.00	0.00	0.00	0.00
09:30	09:35	0.00	0.00	0.00	0.00	0.00
09:35	09:40	0.00	0.00	0.00	0.00	0.00
09:40	09:45	0.00	0.00	0.00	0.00	0.00
09:45	09:50	0.00	0.00	0.00	0.00	0.00
09:50	09:55	0.00	0.00	0.00	0.00	0.00
09:55	10:00	0.00	0.00	0.00	0.00	0.00
10:00	10:05	0.00	0.00	0.00	0.00	0.00
10:05	10:10	0.00	0.00	0.00	0.00	0.00
10:10	10:15	0.00	0.00	0.00	0.00	0.00
10:15	10:20	0.00	0.00	0.00	0.00	0.00
10:20	10:25	0.00	0.00	0.00	0.00	0.00
10:25	10:30	0.00	0.00	0.00	0.00	0.00
10:30	10:35	0.00	0.00	0.00	0.00	0.00
10:35	10:40	0.00	0.00	0.00	0.00	0.00
10:40	10:45	0.00	0.00	0.00	0.00	0.00
10:45	10:50	0.00	0.00	0.00	0.00	0.00
10:50	10:55	0.00	0.00	0.00	0.00	0.00
10:55	11:00	0.00	0.00	0.00	0.00	0.00
11:00	11:05	0.00	0.00	0.00	0.00	0.00
11:05	11:10	0.00	0.00	0.00	0.00	0.00
11:10	11:15	0.00	0.00	0.00	0.00	0.00
11:15	11:20	0.00	0.00	0.00	0.00	0.00
11:20	11:25	0.00	0.00	0.00	0.00	0.00

11:25	11:30	0.00	0.00	0.00	0.00	0.00
11:30	11:35	0.00	0.00	0.00	0.00	0.00
11:35	11:40	0.00	0.00	0.00	0.00	0.00
11:40	11:45	0.00	0.00	0.00	0.00	0.00
11:45	11:50	0.00	0.00	0.00	0.00	0.00
11:50	11:55	0.00	0.00	0.00	0.00	0.00
11:55	12:00	0.00	0.00	0.00	0.00	0.00
12:00	12:05	0.00	0.00	0.00	0.00	0.00
12:05	12:10	0.00	0.00	0.00	0.00	0.00
12:10	12:15	0.00	0.00	0.00	0.00	0.00
12:15	12:20	0.00	0.00	0.28	0.32	0.35
12:20	12:25	0.17	0.24	0.00	0.00	0.00
12:25	12:30	0.00	0.00	0.00	0.00	0.00
12:30	12:35	0.00	0.00	0.00	0.00	0.00
12:35	12:40	0.00	0.00	0.00	0.00	0.00
12:40	12:45	0.00	0.00	0.00	0.00	0.00
12:45	12:50	0.00	0.00	0.00	0.00	0.00
12:50	12:55	0.00	0.00	0.00	0.00	0.00
12:55	13:00	0.00	0.00	0.00	0.00	0.00
13:00	13:05	0.00	0.00	0.00	0.00	0.00
13:05	13:10	0.00	0.00	0.28	0.32	0.35
13:10	13:15	0.17	0.24	0.00	0.00	0.00
13:15	13:20	0.00	0.00	0.00	0.00	0.00
13:20	13:25	0.00	0.00	0.28	0.32	0.35
13:25	13:30	0.17	0.24	0.00	0.00	0.00
13:30	13:35	0.00	0.00	0.85	0.95	1.05
13:35	13:40	0.52	0.73	0.57	0.63	0.70
13:40	13:45	0.35	0.49	0.28	0.32	0.35
13:45	13:50	0.17	0.24	0.57	0.63	0.70
13:50	13:55	0.35	0.49	0.57	0.63	0.70
13:55	14:00	0.35	0.49	0.28	0.32	0.35
14:00	14:05	0.17	0.24	0.57	0.63	0.70
14:05	14:10	0.35	0.49	1.14	1.27	1.40
14:10	14:15	0.70	0.98	0.85	0.95	1.05
14:15	14:20	0.52	0.73	0.57	0.63	0.70
14:20	14:25	0.35	0.49	0.00	0.00	0.00
14:25	14:30	0.00	0.00	0.28	0.32	0.35
14:30	14:35	0.17	0.24	0.00	0.00	0.00
14:35	14:40	0.00	0.00	0.28	0.32	0.35
14:40	14:45	0.17	0.24	0.00	0.00	0.00
14:45	14:50	0.00	0.00	0.00	0.00	0.00
14:50	14:55	0.00	0.00	0.00	0.00	0.00

14:55	15:00	0.00	0.00	0.00	0.00	0.00
15:00	15:05	0.00	0.00	0.00	0.00	0.00
15:05	15:10	0.00	0.00	0.00	0.00	0.00
15:10	15:15	0.00	0.00	0.00	0.00	0.00
15:15	15:20	0.00	0.00	0.00	0.00	0.00
15:20	15:25	0.00	0.00	0.00	0.00	0.00
15:25	15:30	0.00	0.00	0.00	0.00	0.00
15:30	15:35	0.00	0.00	0.00	0.00	0.00
15:35	15:40	0.00	0.00	0.00	0.00	0.00
15:40	15:45	0.00	0.00	0.00	0.00	0.00
15:45	15:50	0.00	0.00	0.28	0.32	0.35
15:50	15:55	0.17	0.24	0.28	0.32	0.35
15:55	16:00	0.17	0.24	0.28	0.32	0.35
16:00	16:05	0.17	0.24	0.00	0.00	0.00
16:05	16:10	0.00	0.00	0.28	0.32	0.35
16:10	16:15	0.17	0.24	0.00	0.00	0.00
16:15	16:20	0.00	0.00	0.57	0.63	0.70
16:20	16:25	0.35	0.49	0.28	0.32	0.35
16:25	16:30	0.17	0.24	0.28	0.32	0.35
16:30	16:35	0.17	0.24	0.28	0.32	0.35
16:35	16:40	0.17	0.24	1.42	1.58	1.75
16:40	16:45	0.87	1.22	1.14	1.27	1.40
16:45	16:50	0.70	0.98	0.28	0.32	0.35
16:50	16:55	0.17	0.24	0.28	0.32	0.35
16:55	17:00	0.17	0.24	0.00	0.00	0.00
17:00	17:05	0.00	0.00	0.00	0.00	0.00
17:05	17:10	0.00	0.00	0.28	0.32	0.35
17:10	17:15	0.17	0.24	0.28	0.32	0.35
17:15	17:20	0.17	0.24	0.28	0.32	0.35
17:20	17:25	0.17	0.24	0.28	0.32	0.35
17:25	17:30	0.17	0.24	0.00	0.00	0.00
17:30	17:35	0.00	0.00	0.28	0.32	0.35
17:35	17:40	0.17	0.24	0.28	0.32	0.35
17:40	17:45	0.17	0.24	0.00	0.00	0.00
17:45	17:50	0.00	0.00	0.28	0.32	0.35
17:50	17:55	0.17	0.24	0.28	0.32	0.35
17:55	18:00	0.17	0.24	0.57	0.63	0.70
18:00	18:05	0.35	0.49	0.57	0.63	0.70
18:05	18:10	0.35	0.49	0.57	0.63	0.70
18:10	18:15	0.35	0.49	1.14	1.27	1.40
18:15	18:20	0.70	0.98	0.85	0.95	1.05
18:20	18:25	0.52	0.73	0.57	0.63	0.70

18:25	18:30	0.35	0.49	0.57	0.63	0.70
18:30	18:35	0.35	0.49	0.85	0.95	1.05
18:35	18:40	0.52	0.73	0.57	0.63	0.70
18:40	18:45	0.35	0.49	0.85	0.95	1.05
18:45	18:50	0.52	0.73	0.85	0.95	1.05
18:50	18:55	0.52	0.73	1.71	1.90	2.10
18:55	19:00	1.04	1.46	0.85	0.95	1.05
19:00	19:05	0.52	0.73	0.28	0.32	0.35
19:05	19:10	0.17	0.24	0.85	0.95	1.05
19:10	19:15	0.52	0.73	0.28	0.32	0.35
19:15	19:20	0.17	0.24	0.57	0.63	0.70
19:20	19:25	0.35	0.49	0.57	0.63	0.70
19:25	19:30	0.35	0.49	0.00	0.00	0.00
19:30	19:35	0.00	0.00	0.00	0.00	0.00
19:35	19:40	0.00	0.00	0.28	0.32	0.35
19:40	19:45	0.17	0.24	0.00	0.00	0.00
19:45	19:50	0.00	0.00	0.00	0.00	0.00
19:50	19:55	0.00	0.00	0.28	0.32	0.35
19:55	20:00	0.17	0.24	0.00	0.00	0.00
20:00	20:05	0.00	0.00	0.57	0.63	0.70
20:05	20:10	0.35	0.49	0.00	0.00	0.00
20:10	20:15	0.00	0.00	0.57	0.63	0.70
20:15	20:20	0.35	0.49	0.57	0.63	0.70
20:20	20:25	0.35	0.49	0.57	0.63	0.70
20:25	20:30	0.35	0.49	0.28	0.32	0.35
20:30	20:35	0.17	0.24	0.28	0.32	0.35
20:35	20:40	0.17	0.24	0.57	0.63	0.70
20:40	20:45	0.35	0.49	1.42	1.58	1.75
20:45	20:50	0.87	1.22	3.70	4.12	4.56
20:50	20:55	2.26	3.17	2.27	2.53	2.80
20:55	21:00	1.39	1.95	0.85	0.95	1.05
21:00	21:05	0.52	0.73	0.28	0.32	0.35
21:05	21:10	0.17	0.24	1.14	1.27	1.40
21:10	21:15	0.70	0.98	0.57	0.63	0.70
21:15	21:20	0.35	0.49	0.28	0.32	0.35
21:20	21:25	0.17	0.24	0.28	0.32	0.35
21:25	21:30	0.17	0.24	0.00	0.00	0.00
21:30	21:35	0.00	0.00	0.57	0.63	0.70
21:35	21:40	0.35	0.49	0.57	0.63	0.70
21:40	21:45	0.35	0.49	0.28	0.32	0.35
21:45	21:50	0.17	0.24	0.85	0.95	1.05
21:50	21:55	0.52	0.73	1.14	1.27	1.40

21:55	22:00	0.70	0.98	0.57	0.63	0.70
22:00	22:05	0.35	0.49	0.57	0.63	0.70
22:05	22:10	0.35	0.49	0.57	0.63	0.70
22:10	22:15	0.35	0.49	0.85	0.95	1.05
22:15	22:20	0.52	0.73	2.27	2.53	2.80
22:20	22:25	1.39	1.95	1.99	2.22	2.45
22:25	22:30	1.22	1.71	1.71	1.90	2.10
22:30	22:35	1.04	1.46	2.27	2.53	2.80
22:35	22:40	1.39	1.95	3.98	4.43	4.91
22:40	22:45	2.43	3.42	1.71	1.90	2.10
22:45	22:50	1.04	1.46	0.57	0.63	0.70
22:50	22:55	0.35	0.49	1.42	1.58	1.75
22:55	23:00	0.87	1.22	0.85	0.95	1.05
23:00	23:05	0.52	0.73	0.57	0.63	0.70
23:05	23:10	0.35	0.49	0.28	0.32	0.35
23:10	23:15	0.17	0.24	0.28	0.32	0.35
23:15	23:20	0.17	0.24	0.57	0.63	0.70
23:20	23:25	0.35	0.49	1.71	1.90	2.10
23:25	23:30	1.04	1.46	2.27	2.53	2.80
23:30	23:35	1.39	1.95	1.71	1.90	2.10
23:35	23:40	1.04	1.46	1.42	1.58	1.75
23:40	23:45	0.87	1.22	2.27	2.53	2.80
23:45	23:50	1.39	1.95	1.42	1.58	1.75
23:50	23:55	0.87	1.22	0.28	0.32	0.35
23:55	00:00	0.17	0.24	0.00	0.00	0.00
00:00	00:05	0.00	0.00	0.28	0.32	0.35
00:05	00:10	0.17	0.24	0.28	0.32	0.35
00:10	00:15	0.17	0.24	0.28	0.32	0.35
00:15	00:20	0.17	0.24	0.57	0.63	0.70
00:20	00:25	0.35	0.49	0.28	0.32	0.35
00:25	00:30	0.17	0.24	0.85	0.95	1.05
00:30	00:35	0.52	0.73	0.57	0.63	0.70
00:35	00:40	0.35	0.49	0.57	0.63	0.70
00:40	00:45	0.35	0.49	2.84	3.17	3.51
00:45	00:50	1.74	2.44	0.28	0.32	0.35
00:50	00:55	0.17	0.24	0.85	0.95	1.05
00:55	01:00	0.52	0.73	0.57	0.63	0.70
01:00	01:05	0.35	0.49	0.57	0.63	0.70
01:05	01:10	0.35	0.49	0.57	0.63	0.70
01:10	01:15	0.35	0.49	0.57	0.63	0.70
01:15	01:20	0.35	0.49	0.57	0.63	0.70
01:20	01:25	0.35	0.49	0.57	0.63	0.70

01:25	01:30	0.35	0.49	0.57	0.63	0.70
01:30	01:35	0.35	0.49	0.57	0.63	0.70
01:35	01:40	0.35	0.49	0.57	0.63	0.70
01:40	01:45	0.35	0.49	0.00	0.00	0.00
01:45	01:50	0.00	0.00	0.57	0.63	0.70
01:50	01:55	0.35	0.49	0.28	0.32	0.35
01:55	02:00	0.17	0.24	0.28	0.32	0.35
02:00	02:05	0.17	0.24	0.28	0.32	0.35
02:05	02:10	0.17	0.24	0.57	0.63	0.70
02:10	02:15	0.35	0.49	0.28	0.32	0.35
02:15	02:20	0.17	0.24	0.28	0.32	0.35
02:20	02:25	0.17	0.24	0.28	0.32	0.35
02:25	02:30	0.17	0.24	0.00	0.00	0.00
02:30	02:35	0.00	0.00	0.57	0.63	0.70
02:35	02:40	0.35	0.49	0.00	0.00	0.00
02:40	02:45	0.00	0.00	0.28	0.32	0.35
02:45	02:50	0.17	0.24	0.28	0.32	0.35
02:50	02:55	0.17	0.24	1.14	1.27	1.40
02:55	03:00	0.70	0.98	0.28	0.32	0.35
03:00	03:05	0.17	0.24	0.28	0.32	0.35
03:05	03:10	0.17	0.24	0.00	0.00	0.00
Total		75.82	106.40	123.98	138.01	152.86