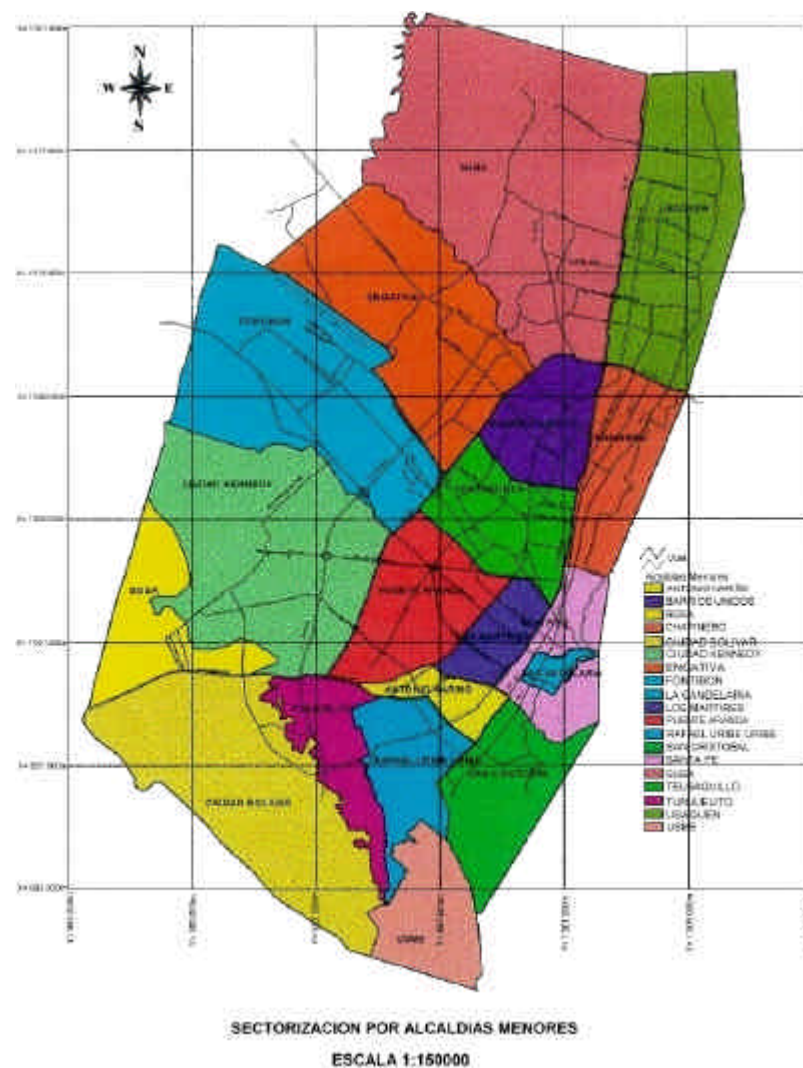


## Apéndice C

# Índices de riesgo sísmico físico y del contexto de Bogotá, Colombia

Mapa indicativo de las alcaldías menores de Bogotá:



### VALORES ABSOLUTOS DE RIESGO SÍSMICO FÍSICO

| LOCALIDAD      | Area de<br>localidad<br>m <sup>2</sup> | Area<br>destruida<br>m <sup>2</sup> | Area destruida /<br>Area localidad<br>%Area | Muertos<br>No | Muertos<br>sismo / Area<br>localidad | Heridos<br>No | Heridos<br>sismo / Area<br>localidad | Roturas del<br>acueducto<br>No | Roturas Red<br>Acueducto /<br>Area localidad | Roturas<br>red de gas<br>No | Roturas Red<br>de Gas / Area<br>localidad | Longitud<br>caída redes<br>eléctricas<br>m | Longitud<br>caída / Area<br>localidad | Vulnerabilidad<br>d centrales<br>teléfónicas | Vulnerabilidad<br>subestaciones<br>eléctricas |
|----------------|----------------------------------------|-------------------------------------|---------------------------------------------|---------------|--------------------------------------|---------------|--------------------------------------|--------------------------------|----------------------------------------------|-----------------------------|-------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------|-----------------------------------------------|
| USAQUEN        | 32,635,050                             | 45,058                              | 0.1381                                      | 1495          | 4.58E-05                             | 10,122        | 0.00031                              | 81                             | 2.48E-06                                     | 4                           | 1.23E-07                                  | 778.87                                     | 2.39E-05                              | 0.7                                          | 0.83                                          |
| CHAPINERO      | 14,295,420                             | 8,385                               | 0.0587                                      | 834           | 5.83E-05                             | 4,297         | 0.00030                              | 69                             | 4.83E-06                                     | 1                           | 7.00E-08                                  | 1155.98                                    | 8.09E-05                              | 0.77                                         | 0.9                                           |
| SANTAFE        | 10,187,140                             | 5,081                               | 0.0499                                      | 444           | 4.36E-05                             | 2,305         | 0.00023                              | 74                             | 7.26E-06                                     | 0                           | 0                                         | 639.50                                     | 6.28E-05                              | 0.62                                         | 0.9                                           |
| SAN CRISTOBAL  | 16,016,470                             | 5,905                               | 0.0369                                      | 634           | 3.96E-05                             | 4,868         | 0.00030                              | 63                             | 3.93E-06                                     | 3                           | 1.87E-07                                  | 539.69                                     | 3.37E-05                              | 0.68                                         | 0.9                                           |
| USME           | 12,480,360                             | 565                                 | 0.0045                                      | 23            | 1.84E-06                             | 175           | 0.00001                              | 7                              | 5.61E-07                                     | 15                          | 1.20E-06                                  | 179.02                                     | 1.43E-05                              | 0.67                                         | 0.9                                           |
| TUNJUELITO     | 10,969,910                             | 2,381                               | 0.0217                                      | 36            | 3.28E-06                             | 207           | 0.00002                              | 14                             | 1.28E-06                                     | 0                           | 0                                         | 73.12                                      | 6.67E-06                              | 0.58                                         | 0.7                                           |
| BOSA           | 14,152,710                             | 6,016                               | 0.0425                                      | 381           | 2.69E-05                             | 2,841         | 0.00020                              | 48                             | 3.39E-06                                     | 8                           | 5.65E-07                                  | 587.86                                     | 4.15E-05                              | 0.73                                         | 0.9                                           |
| CIUDAD KENNEDY | 42,680,750                             | 13,174                              | 0.0309                                      | 149           | 3.49E-06                             | 939           | 0.00002                              | 24                             | 5.62E-07                                     | 1                           | 2.34E-08                                  | 461.06                                     | 1.08E-05                              | 0.54                                         | 0.7                                           |
| FONTIBON       | 40,472,080                             | 13,886                              | 0.0343                                      | 295           | 7.29E-06                             | 1,740         | 0.00004                              | 28                             | 6.92E-07                                     | 4                           | 9.88E-08                                  | 222.23                                     | 5.49E-06                              | 0.64                                         | 0.7                                           |
| ENGATIVA       | 35,455,300                             | 21,685                              | 0.0612                                      | 496           | 1.40E-05                             | 3,660         | 0.00010                              | 38                             | 1.07E-06                                     | 0                           | 0                                         | 99.88                                      | 2.82E-06                              | 0.66                                         | 0.8                                           |
| SUBA           | 66,638,540                             | 51,540                              | 0.0773                                      | 857           | 1.29E-05                             | 6,181         | 0.00009                              | 53                             | 7.95E-07                                     | 4                           | 6.00E-08                                  | 1275.23                                    | 1.91E-05                              | 0.66                                         | 0.77                                          |
| BUNIDOS        | 11,888,540                             | 16,448                              | 0.1384                                      | 890           | 7.49E-05                             | 6,085         | 0.00051                              | 28                             | 2.36E-06                                     | 6                           | 5.05E-07                                  | 532.33                                     | 4.48E-05                              | 0.75                                         | 0.9                                           |
| TEUSAQUILLO    | 14,448,470                             | 14,489                              | 0.1003                                      | 1330          | 9.21E-05                             | 6,617         | 0.00046                              | 59                             | 4.08E-06                                     | 7                           | 4.84E-07                                  | 516.06                                     | 3.57E-05                              | 0.74                                         | 0.9                                           |
| MARTIRES       | 6,504,098                              | 7,664                               | 0.1178                                      | 787           | 1.21E-04                             | 3,849         | 0.00059                              | 16                             | 2.46E-06                                     | 2                           | 3.07E-07                                  | 117.43                                     | 1.81E-05                              | 0.66                                         | 0.7                                           |
| ANTONIO NARIÑO | 4,854,732                              | 2,910                               | 0.0599                                      | 43            | 8.86E-06                             | 284           | 0.00006                              | 10                             | 2.06E-06                                     | 0                           | 0                                         | 81.33                                      | 1.68E-05                              | 0.67                                         | 0.8                                           |
| PUNTE ARANDA   | 17,036,340                             | 13,606                              | 0.0799                                      | 434           | 2.55E-05                             | 2,178         | 0.00013                              | 40                             | 2.35E-06                                     | 1                           | 5.87E-08                                  | 343.93                                     | 2.02E-05                              | 0.69                                         | 0.7                                           |
| CANDELARIA     | 1,853,863                              | 2,221                               | 0.1198                                      | 253           | 1.36E-04                             | 1,233         | 0.00067                              | 12                             | 6.47E-06                                     | 0                           | 0                                         | 149.43                                     | 8.06E-05                              | 0.67                                         | 0.9                                           |
| RAFAEL URIBE   | 12,216,210                             | 4,516                               | 0.0370                                      | 472           | 3.86E-05                             | 3,481         | 0.00028                              | 22                             | 1.80E-06                                     | 3                           | 2.46E-07                                  | 350.14                                     | 2.87E-05                              | 0.65                                         | 0.9                                           |
| CIUDAD BOLIVAR | 40,356,420                             | 10,347                              | 0.0256                                      | 486           | 1.20E-05                             | 3,512         | 0.00009                              | 29                             | 7.19E-07                                     | 28                          | 6.94E-07                                  | 847.92                                     | 2.10E-05                              | 0.64                                         | 0.9                                           |

# INDICADORES DE RIESGO SISMICO FISICO

| LOCALIDAD      | Área destruida por sismo | Muertos por sismo | Heridos por sismo | Roturas red de acueducto | Roturas red de gas | Longitud caída redes eléctricas | Vulnerabilidad centrales telefónicas | Vulnerabilidad subestaciones eléctricas | Índice de Riesgo Sísmico Físico |
|----------------|--------------------------|-------------------|-------------------|--------------------------|--------------------|---------------------------------|--------------------------------------|-----------------------------------------|---------------------------------|
|                | XS <sub>1</sub>          | XS <sub>2</sub>   | XS <sub>3</sub>   | XS <sub>4</sub>          | XS <sub>5</sub>    | XS <sub>6</sub>                 | XS <sub>7</sub>                      | XS <sub>8</sub>                         |                                 |
| USAQUEN        | 3.80                     | 2.14              | 2.38              | 1.95                     | 1.62               | 1.74                            | 4.55                                 | 4.04                                    | 7.82                            |
| CHAPINERO      | 1.84                     | 2.45              | 2.34              | 3.13                     | 1.46               | 4.19                            | 5.80                                 | 4.84                                    | 6.22                            |
| SANTAFE        | 1.63                     | 2.08              | 1.97              | 4.37                     | 1.24               | 3.41                            | 3.12                                 | 4.84                                    | 5.25                            |
| SAN CRISTOBAL  | 1.31                     | 1.98              | 2.35              | 2.68                     | 1.82               | 2.16                            | 4.19                                 | 4.84                                    | 5.32                            |
| USME           | 0.51                     | 1.04              | 0.92              | 0.97                     | 5.00               | 1.33                            | 4.01                                 | 4.84                                    | 3.52                            |
| TUNJUELITO     | 0.93                     | 1.08              | 0.94              | 1.34                     | 1.24               | 1.00                            | 2.40                                 | 2.56                                    | 3.38                            |
| BOSA           | 1.45                     | 1.67              | 1.84              | 2.41                     | 3.01               | 2.50                            | 5.08                                 | 4.84                                    | 5.00                            |
| CIUDAD KENNEDY | 1.16                     | 1.08              | 0.96              | 0.97                     | 1.31               | 1.18                            | 1.68                                 | 2.56                                    | 4.33                            |
| FONTIBON       | 1.25                     | 1.18              | 1.06              | 1.04                     | 1.55               | 0.95                            | 3.47                                 | 2.56                                    | 4.37                            |
| ENGATIVA       | 1.91                     | 1.34              | 1.36              | 1.23                     | 1.24               | 0.84                            | 3.83                                 | 3.70                                    | 4.93                            |
| SUBA           | 2.30                     | 1.31              | 1.31              | 1.09                     | 1.43               | 1.54                            | 3.83                                 | 3.36                                    | 7.62                            |
| B/UNIDOS       | 3.81                     | 2.86              | 3.38              | 1.88                     | 2.82               | 2.64                            | 5.44                                 | 4.84                                    | 5.47                            |
| TEUSAQUILLO    | 2.87                     | 3.29              | 3.11              | 2.76                     | 2.75               | 2.25                            | 5.26                                 | 4.84                                    | 5.98                            |
| MARTIRES       | 3.30                     | 4.01              | 3.77              | 1.94                     | 2.20               | 1.49                            | 3.83                                 | 2.56                                    | 4.22                            |
| ANTONIO NARIÑO | 1.88                     | 1.21              | 1.14              | 1.73                     | 1.24               | 1.44                            | 4.01                                 | 3.70                                    | 3.50                            |
| PUENTE ARANDA  | 2.37                     | 1.63              | 1.48              | 1.88                     | 1.42               | 1.58                            | 4.37                                 | 2.56                                    | 4.76                            |
| CANDELARIA     | 3.35                     | 4.40              | 4.14              | 3.97                     | 1.24               | 4.18                            | 4.01                                 | 4.84                                    | 3.77                            |
| RAFAEL URIBE   | 1.31                     | 1.96              | 2.26              | 1.60                     | 2.01               | 1.95                            | 3.65                                 | 4.84                                    | 4.38                            |
| CIUDAD BOLIVAR | 1.03                     | 1.29              | 1.28              | 1.05                     | 3.41               | 1.62                            | 3.47                                 | 4.84                                    | 5.17                            |

