

**Degradación de suelos: superficie afectada por procesos y tipos de degradación según tipo de vegetación, 2002  
(hectáreas)**

| Proceso de degradación           | Tipo de degradación | Agrícola, Pecuaria y Forestal | Bosque mesófilo de montaña | Bosque templado     | Manglar           | Matorral xerófilo   | Otra vegetación hidrófila | Pantanal inducido o cultivado | Pantanal natural    | Plantación forestal | Selva húmeda        | Selva subhúmeda     | Vegetación halófila y gipsófila | Total                |
|----------------------------------|---------------------|-------------------------------|----------------------------|---------------------|-------------------|---------------------|---------------------------|-------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------------------|----------------------|
| Degradación física               | Fc                  | 5,130,806.26                  | 46,598.69                  | 176,071.34          | 52,763.68         | 286,252.61          | 198,414.54                | 146,949.29                    | 133,596.52          | 113.31              | 712,701.05          | 648,655.48          | 28,909.61                       | 7,561,832.39         |
|                                  | Fu                  | 1,093,213.05                  | 9,786.16                   | 242,406.27          | 18,749.82         | 356,770.05          | 29,041.68                 | 89,400.92                     | 192,966.03          | 267.92              | 86,155.44           | 218,159.36          | 54,739.30                       | 2,391,655.98         |
|                                  | Fe                  | 172,840.76                    | 0.00                       | 140.59              | 4,322.87          | 3,049.71            | 9,051.20                  | 1,359.50                      | 3,187.06            | 0.00                | 0.00                | 6,050.86            | 5,971.24                        | 205,973.79           |
|                                  | Fa                  | 13,607.07                     | 0.00                       | 62.02               | 327.01            | 0.00                | 1,904.84                  | 665.91                        | 0.00                | 0.00                | 28.56               | 1,489.23            | 6.43                            | 18,091.08            |
|                                  | Fd                  | 20,832.92                     | 0.00                       | 97.90               | 0.00              | 291,752.72          | 1,105.89                  | 13,624.47                     | 27,646.19           | 0.00                | 0.00                | 0.00                | 87,480.60                       | 442,540.69           |
| <b>Total Degradación física</b>  |                     | <b>6,431,300.07</b>           | <b>56,384.85</b>           | <b>418,778.12</b>   | <b>76,163.38</b>  | <b>937,825.08</b>   | <b>239,518.15</b>         | <b>252,000.09</b>             | <b>357,395.79</b>   | <b>381.23</b>       | <b>798,885.06</b>   | <b>874,354.93</b>   | <b>177,107.17</b>               | <b>10,620,093.93</b> |
| Degradación química              | Qd                  | 12,984,455.54                 | 274,648.56                 | 3,654,783.55        | 97,497.18         | 3,569,254.38        | 170,724.19                | 1,259,709.05                  | 1,925,811.70        | 652.42              | 1,975,516.17        | 4,800,915.77        | 570,895.35                      | 31,284,863.85        |
|                                  | Qp                  | 734,731.84                    | 2.93                       | 23,994.14           | 3,183.11          | 172,554.82          | 26,738.44                 | 21,624.88                     | 63,795.14           | 0.00                | 1,169.79            | 59,411.13           | 63,121.08                       | 1,170,327.32         |
|                                  | Qs                  | 832,441.60                    | 143.07                     | 1,936.57            | 927.65            | 88,073.22           | 13,496.93                 | 42,738.11                     | 8,477.16            | 404.40              | 3.86                | 21,871.90           | 18,816.05                       | 1,029,330.52         |
|                                  | Qe                  | 120,833.41                    | 4,357.27                   | 15,851.03           | 0.00              | 13,333.63           | 3,366.18                  | 6,810.25                      | 2,466.16            | 270.54              | 4,432.64            | 8,811.98            | 5,595.02                        | 186,128.12           |
| <b>Total Degradación química</b> |                     | <b>14,672,462.40</b>          | <b>279,151.82</b>          | <b>3,696,565.30</b> | <b>101,607.94</b> | <b>3,843,216.06</b> | <b>214,325.74</b>         | <b>1,330,882.30</b>           | <b>2,000,550.17</b> | <b>1,327.37</b>     | <b>1,981,122.47</b> | <b>4,891,010.77</b> | <b>658,427.50</b>               | <b>33,670,649.81</b> |
| Erosión eólica                   | Ed                  | 51,755.91                     | 0.00                       | 2,459.55            | 8.66              | 16,466.77           | 3.54                      | 541.72                        | 1,136.95            | 0.00                | 0.00                | 0.00                | 10,835.42                       | 83,208.53            |
|                                  | Et                  | 119,108.64                    | 0.00                       | 14,500.23           | 0.00              | 307,089.05          | 736.54                    | 15,146.37                     | 101,736.02          | 0.00                | 0.00                | 0.00                | 141,512.51                      | 699,829.37           |
|                                  | Es                  | 4,810,626.03                  | 409.68                     | 872,291.47          | 998.78            | 6,672,305.34        | 57,702.43                 | 466,966.97                    | 2,496,472.11        | 68.34               | 1,666.68            | 208,864.93          | 1,165,560.54                    | 16,753,933.29        |
| <b>Total Erosión eólica</b>      |                     | <b>4,981,490.59</b>           | <b>409.68</b>              | <b>889,251.24</b>   | <b>1,007.44</b>   | <b>6,995,861.17</b> | <b>58,442.51</b>          | <b>482,655.06</b>             | <b>2,599,345.08</b> | <b>68.34</b>        | <b>1,666.68</b>     | <b>208,864.93</b>   | <b>1,317,908.46</b>             | <b>17,536,971.19</b> |
| Erosión hídrica                  | Hc                  | 660,769.25                    | 20,844.12                  | 701,350.19          | 48.26             | 373,356.40          | 1,516.65                  | 239,835.34                    | 214,718.95          | 78.12               | 5,760.66            | 380,481.80          | 17,447.22                       | 2,616,206.96         |
|                                  | Hs                  | 3,753,878.15                  | 119,635.14                 | 6,256,369.09        | 2,892.15          | 2,629,089.21        | 16,257.09                 | 1,221,027.56                  | 1,673,050.65        | 0.00                | 289,463.08          | 3,437,402.85        | 130,750.45                      | 19,529,815.42        |
|                                  | Ha                  | 18,842.87                     | 0.00                       | 4,167.24            | 35.03             | 19,109.61           | 0.00                      | 2,506.75                      | 12,696.26           | 0.00                | 0.00                | 3,300.30            | 151.77                          | 60,809.83            |
| <b>Total Erosión hídrica</b>     |                     | <b>4,433,490.27</b>           | <b>140,479.26</b>          | <b>6,961,886.52</b> | <b>2,975.44</b>   | <b>3,021,555.21</b> | <b>17,773.74</b>          | <b>1,463,369.65</b>           | <b>1,900,465.87</b> | <b>78.12</b>        | <b>295,223.73</b>   | <b>3,821,184.95</b> | <b>148,349.45</b>               | <b>22,206,832.21</b> |

**NOTAS**

| Variable              | Notas  |
|-----------------------|--|
| Degradación de suelos | Los totales presentados por tipo de vegetación y uso del suelo no necesariamente coinciden con aquellos que se calculan por nivel de degradación, debido a las diferencias que puedan existir entre las delimitaciones costeras de una y otra capa de información. Estas diferencias suelen ocurrir debido a que tales capas de información se generan en distintos momentos y con diferentes escalas. Esta información es la más reciente disponible. Revisión: diciembre 2013. |

**FUENTES**

Dirección General de Estadística e Información Ambiental, con base en: Instituto Nacional de Estadística, Geografía e Informática, Conjunto de datos vectoriales de uso de suelo y vegetación, 2002-2005. Escala 1:250,000, Serie III, INEGI, México, 2005.  
 Dirección General de Estadística e Información Ambiental, con base en: Semarnat-Colegio de Postgraduados, Evaluación de la degradación del suelo causada por el hombre en la República Mexicana. Escala 1:250,000. Memoria Nacional 2001-2002, , Semarnat-Colegio de Postgraduados, México, 2003.