

Degradación de suelos: superficie afectada por procesos, por entidad federativa, según niveles de degradación, 2002
(hectáreas)

		Ligera	Moderada	Severa	Extrema	Total
Degradación física	Aguascalientes	5,125.59	0.00	3,617.40	3,812.38	12,555.37
	Baja California	26,217.27	16,860.17	24,110.69	68,788.97	135,977.10
	Baja California Sur	4,328.14	5,205.65	12,148.89	63,865.55	85,548.23
	Campeche	716,604.20	0.00	0.00	29,715.29	746,319.49
	Coahuila	0.00	1,031.73	12,871.42	32,598.56	46,501.71
	Colima	12,323.96	0.00	1,241.36	4,095.70	17,661.02
	Chiapas	689,179.84	102,979.56	28,683.21	149,789.25	970,631.87
	Chihuahua	9,907.63	886,628.37	57,237.60	4,410.91	958,184.51
	Ciudad de México	1,396.64	0.00	3,985.26	4,771.31	10,153.21
	Durango	28,945.24	127,206.13	81,102.66	7,404.89	244,658.92
	Guanajuato	8,839.51	30,742.90	20,610.12	14,471.97	74,664.50
	Guerrero	110,566.83	3,034.03	6,943.25	6,396.16	126,940.27
	Hidalgo	42,107.34	2,686.08	2,873.20	31,159.68	78,826.30
	Jalisco	142,288.38	38,553.66	30,244.59	91,231.13	302,317.76
	México	25,198.67	3,864.61	30,325.77	27,449.25	86,838.30
	Michoacán	64,807.20	6,215.13	8,716.03	21,860.73	101,599.10
	Morelos	11,995.63	0.00	0.00	13,523.36	25,518.99
	Nayarit	48,794.36	8,766.66	2,893.49	21,065.19	81,519.69
	Nuevo León	9,277.94	33,506.61	0.00	30,698.72	73,483.27
	Oaxaca	396,234.17	59,248.01	4,453.50	23,375.90	483,311.59
Puebla	60,632.63	5,442.45	8,246.28	22,948.36	97,269.71	
Querétaro	7,452.73	51.98	0.00	11,470.98	18,975.68	
Quintana Roo	104,098.22	0.00	11,420.66	68,649.60	184,168.48	
San Luis Potosí	291,876.09	133,165.99	58,904.33	16,508.08	500,454.49	
Sinaloa	103,599.07	10,605.60	19,625.71	105,784.34	239,614.74	
Sonora	23,285.65	77,049.97	36,551.39	102,786.63	239,673.65	
Tabasco	841,946.97	7,381.15	7,855.81	30,368.39	887,552.32	
Tamaulipas	731,131.71	202,745.07	16,776.11	5,100.93	955,753.82	
Tlaxcala	7,047.97	9.88	5,175.40	9,191.61	21,424.86	
Veracruz	1,408,062.93	557,264.90	1,279.12	54,945.86	2,021,552.80	
Yucatán	624,457.36	0.00	8,741.02	108,220.30	741,418.68	
Zacatecas	162,923.39	13,881.86	80,535.53	9,402.53	266,743.31	
Total	6,720,653.26	2,334,128.14	587,169.83	1,195,862.53	10,837,813.75	
Degradación química	Aguascalientes	73,196.27	1,405.74	1,104.55	0.00	75,706.57
	Baja California	811.34	259,445.62	0.00	0.00	260,256.96
	Baja California Sur	7,456.15	125,291.97	1,560.05	0.00	134,308.17
	Campeche	1,355,891.05	49,604.96	0.00	0.00	1,405,496.01
	Coahuila	217,722.59	139,965.60	7,015.94	0.00	364,704.14
	Colima	59,886.16	86,170.15	0.00	0.00	146,056.31
	Chiapas	1,123,609.20	1,131,584.78	141,462.10	3,242.42	2,399,898.49
	Chihuahua	40,107.17	5,368,789.65	81,916.58	0.00	5,490,813.39
	Ciudad de México	11,768.62	0.00	0.00	0.00	11,768.62
	Durango	510,829.14	1,629,556.02	3,033.63	0.00	2,143,455.96
	Guanajuato	375,594.89	449,660.64	9,125.67	22,178.64	856,559.84
Guerrero	857,039.34	41,191.78	0.00	103.79	898,334.92	

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Degradación química	Hidalgo	345,800.24	208,349.01	0.00	0.00	554,149.25
	Jalisco	1,058,572.14	595,157.06	1,094.12	1,821.13	1,656,644.45
	México	436,752.58	108,960.54	0.00	0.00	545,713.12
	Michoacán	947,762.41	366,634.82	0.00	0.00	1,314,397.22
	Morelos	93,428.62	46,937.03	0.00	0.00	140,365.65
	Nayarit	385,098.97	152,635.44	0.00	62.68	537,797.09
	Nuevo León	427,844.66	117,341.26	69,158.60	0.00	614,344.52
	Oaxaca	1,290,251.43	388,371.15	0.00	0.00	1,678,622.58
	Puebla	549,279.52	192,032.53	0.00	0.00	741,312.05
	Querétaro	126,218.53	72,953.61	0.00	0.00	199,172.14
	Quintana Roo	1,011,924.43	8,177.51	0.00	0.00	1,020,101.94
	San Luis Potosí	508,029.64	329,768.75	26,184.89	0.00	863,983.28
	Sinaloa	684,982.93	969,814.30	0.00	0.00	1,654,797.23
	Sonora	209,140.60	685,810.42	30,571.76	0.00	925,522.78
	Tabasco	656,230.85	46,522.71	26,737.43	0.00	729,490.98
	Tamaulipas	1,202,491.55	287,032.61	133,532.38	23,548.12	1,646,604.67
	Tlaxcala	72,618.88	19,195.57	0.00	0.00	91,814.45
	Veracruz	1,517,157.90	647,283.89	596.31	0.00	2,165,038.11
	Yucatán	2,096,511.80	21,766.95	11,337.09	1,642.91	2,131,258.75
	Zacatecas	460,143.67	169,999.17	13,921.28	0.00	644,064.12
	Total	18,714,153.29	14,717,411.25	558,352.39	52,599.70	34,042,553.79
Erosión eólica	Aguascalientes	8,917.54	55,922.89	1,562.19	0.00	66,402.62
	Baja California	1,823.63	17,791.64	0.00	0.00	19,615.27
	Baja California Sur	11,593.87	71,768.24	0.00	0.00	83,362.11
	Campeche	0.00	0.00	0.00	0.00	0.00
	Coahuila	1,373,787.58	694,369.18	495.62	0.00	2,068,652.38
	Colima	15,085.78	0.00	0.00	0.00	15,085.78
	Chiapas	0.00	0.00	0.00	0.00	0.00
	Chihuahua	91,559.79	6,678,025.19	234,350.01	0.00	7,003,934.99
	Ciudad de México	2,119.95	0.00	0.00	0.00	2,119.95
	Durango	442,577.92	1,716,599.93	20,475.37	0.00	2,179,653.23
	Guanajuato	91,750.25	150,713.14	0.00	0.00	242,463.39
	Guerrero	53,019.74	0.00	0.00	0.00	53,019.74
	Hidalgo	31,166.38	80,527.39	0.00	0.00	111,693.77
	Jalisco	192,176.57	5,041.09	7,342.57	0.00	204,560.24
	México	92,591.08	6,928.41	0.00	0.00	99,519.49
	Michoacán	174,450.65	9,024.80	0.00	0.00	183,475.45
	Morelos	20,018.26	0.00	0.00	0.00	20,018.26
	Nayarit	9,728.55	0.00	0.00	0.00	9,728.55
	Nuevo León	807,271.78	367,633.83	12,875.83	0.00	1,187,781.44
	Oaxaca	35,733.59	8,070.13	0.00	0.00	43,803.72
Puebla	207,539.33	115,851.10	0.00	0.00	323,390.42	
Querétaro	33,620.00	49,230.10	0.00	0.00	82,850.11	
Quintana Roo	0.00	0.00	0.00	0.00	0.00	
San Luis Potosí	128,843.67	290,641.88	29,659.71	0.00	449,145.25	

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Proceso de degradación	Entidad	Ligera	Moderada	Severa	Extrema	Total
Erosión eólica	Sinaloa	22,381.03	2,889.53	0.00	0.00	25,270.56
	Sonora	472,491.01	741,804.76	52,641.63	12,265.68	1,279,203.08
	Tabasco	0.00	0.00	0.00	0.00	0.00
	Tamaulipas	528,903.33	333,648.99	158,729.71	0.00	1,021,282.03
	Tlaxcala	101,531.83	0.00	0.00	0.00	101,531.83
	Veracruz	11,276.16	36,624.55	0.00	0.00	47,900.71
	Yucatán	0.00	0.00	0.00	0.00	0.00
	Zacatecas	381,641.91	653,040.32	164,714.25	0.00	1,199,396.48
	Total	5,343,601.19	12,086,147.09	682,846.89	12,265.68	18,124,860.84
	Erosión hídrica	Aguascalientes	50,744.72	61,325.26	18,588.60	0.00
Baja California		973.59	4,342.59	1,262.83	0.00	6,579.00
Baja California Sur		562.90	1,635.17	0.00	0.00	2,198.07
Campeche		0.00	0.00	0.00	0.00	0.00
Coahuila		456,809.11	136,174.79	10,868.26	0.00	603,852.17
Colima		110,848.96	4,463.87	0.00	0.00	115,312.83
Chiapas		226,868.75	139,160.44	1,151.84	0.00	367,181.03
Chihuahua		159,838.86	2,766,367.31	24,210.91	0.00	2,950,417.08
Ciudad de México		15,772.55	748.84	0.00	0.00	16,521.39
Durango		1,382,044.88	1,383,444.47	51,062.84	0.00	2,816,589.35
Guanajuato		247,604.89	327,722.86	120,819.17	8,041.94	704,188.86
Guerrero		1,635,064.97	358,799.69	784.82	0.00	1,994,649.48
Hidalgo		60,850.70	65,992.36	4,763.97	0.00	131,607.03
Jalisco		1,505,528.16	336,731.61	69,502.60	744.19	1,912,506.56
México		370,479.46	169,563.21	893.36	0.00	540,936.03
Michoacán		1,241,819.92	281,265.15	12,132.25	0.00	1,535,217.32
Morelos		52,730.69	11,203.95	0.00	0.00	63,934.64
Nayarit		460,735.87	23,078.39	3,773.11	0.00	487,587.37
Nuevo León		507,652.94	138,860.83	13,992.18	6,705.85	667,211.81
Oaxaca		1,389,543.27	275,810.82	3,082.61	0.00	1,668,436.70
Puebla		208,411.17	119,915.76	9,138.03	0.00	337,464.95
Querétaro		91,926.05	61,915.19	9,082.35	0.00	162,923.60
Quintana Roo		0.00	0.00	0.00	0.00	0.00
San Luis Potosí		178,175.40	223,609.60	61,651.82	2,241.39	465,678.21
Sinaloa		700,817.72	155,883.71	6,568.18	0.00	863,269.61
Sonora		795,674.10	1,274,616.91	221,569.16	20,739.51	2,312,599.69
Tabasco		29,247.53	26,900.45	0.00	0.00	56,147.99
Tamaulipas		340,169.28	216,761.92	63,437.17	0.00	620,368.38
Tlaxcala		49,299.06	21,052.64	1,672.59	0.00	72,024.29
Veracruz		18,293.78	46,363.51	1,475.22	0.00	66,132.51
Yucatán		0.00	0.00	0.00	0.00	0.00
Zacatecas		534,263.92	392,678.77	126,568.95	0.00	1,053,511.64
Total	12,822,753.21	9,026,390.07	838,052.82	38,472.89	22,725,706.16	

NOTAS

Variable	Notas
Superficie con 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. La información de degradación de suelos presentada, en unidades de superficie, es la más reciente disponible. La edición más reciente del Inventario Nacional Forestal y de Suelos (Informe de Resultados 2009-2014, disponible en https://snigf.cnf.gob.mx/inventario-nacional-forestal/) publica la información de la degradación de suelos en términos de unidades de muestreo que presentan ese fenómeno, sin publicar la superficie estimada que les corresponde (revisión: Julio, 2021). Con motivo de la reforma de la Constitución Política de los Estados Unidos Mexicanos publicada el 29 de enero de 2016 en el Diario Oficial de la Federación, el Distrito Federal cambió su denominación a Ciudad de México. La información correspondiente a dicha entidad se presenta con este nuevo nombre.

FUENTES

Secretaría de Medio Ambiente y Recursos Naturales, 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.

Secretaría de Medio Ambiente y Recursos Naturales, 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.