

Table S3. Publications related to the five ecological limitations established in the National Evaluation of restoration projects in Mexico for tropical dry forests. Type of publications: Practical projects (Pr), Research that can be used for restoration (Res) or projects already included in the National Evaluation (NatEv). Ecological limitations considered were those reported in the National Evaluation: (i) environmental conditions as low quality of soil attributes, including steep slopes (Soil & slopes), (ii) low availability of seedlings for restoration plantings and high mortality in the field (Plantings), (iii) unpredictable Climate, (iv) the presence of invasive species and (v) fires. We included the category of Natural succession (Nat Succ) and a “Others” limitations.

Reference/Locations	Type	Soil & roslopes	Plantings	Climate	Invasive sp	Fire	Nat Succ	Others
[1]Allen et al. 2005 Quintana Roo, Mexico, El Eden Ecological Reserve	Res		Performance of 6 sp with mycorrhizas. Mortality due to deer browsing and pathogens.			Burned soil		
[2]Alvarado-López et al. 2014 Actopan municipality, Veracruz, Mexico	Res		Propagation: priming techniques for successful propagation of 2 sp.					
[3]Alvarez-Aquino &Williams 2012 Central Veracruz, Mexico	Res		Performance of 6 sp in fallow. Mortality due to herbivory and hurricane.	Hurricane				
[4]Alvarez-Aquino et al. 2014 Veracruz, Mexico	Res		Propagation: scarification and direct seeding of 4 sp. Mortality of seeds due to predation by rodents and insects.					
[5]Andresen et al. 2005 El Eden Ecological Reserve, Quintana Roo, Mexico	Res						Break arrested succession by thinning vegetation	
[6]Arias-Medellín et al. 2014 Sierra de Huautla, Morelos, Mexico5	NatEv							Structure of cacti populations.
[7]Arias-Medellín et al. 2016 Xochicalco y Tembembe, Morelos, México	NatEv		Performance of 1 sp. Mortality due to low precipitation, predation by cattle and small seedling size.					

Reference/Locations	Type	Soil & roslopes	Plantings	Climate	Invasive sp	Fire	Nat Succ	Others
[8]Ballina-Gomez et al. 2017 Yucatan	Res		Direct seeding: Germination of 3 sp with mycorrhiza and levels of light and nutrients.					
[9]Barajas-Guzmán & Barradas 2011 San Mateo, Jalisco	Res	Adverse soil conditions for plantings	Performance of 3 sp with mulches. Mortality due to high soil temperature and low soil water content.					
[10]Barajas-Guzmán & Barradas 2013 San Mateo, Jalisco	Res	Adverse soil conditions for plantings	Performance of 3 sp with mulches. Economic limitations					
[11]Barajas-Guzmán et al. 2006 San Mateo, Jalisco	Res	Soil volumetric water content, pH, carbon, total N y P	Performance of 3 sp with mulches. Higher mortality in bare soil.					
[12]Beltrán-Rodríguez et al. 2017 Alto Balsas River Basin, Guerrero	Res	Slope, soil depth, slope orientation.						Suggested species for restoration plantings.
[13]Bolivar-Cime et al. 2012 Central Veracruz	Res							Restoration planning: recovery of animal populations
[14]Bonfil et al. 2008 Agrociencia Cuentepec, Morelos	Res		Propagation and direct seeding of 6 <i>Bursera</i> sp.					
[15]Bonilla-Moheno & Aide 2020 Mexico	Res							Restoration planning: drivers of change in vegetation cover
[16]Burke et al. 2021 Mexico	Res							Restoration planning: prioritization

Reference/Locations	Type	Soil & roslopes	Plantings	Climate	Invasive sp	Fire	Nat Succ	Others
[17]Burgos 2004 Chamela, Jalisco			Survival and growth rates of 5 tree species: direct seeding of 3 species					
[18]Camargo-Ricalde et al. 2003 Tehuacán-Cuicatlán Valley	Res		Selection of species and presence of mycorrhiza (45 species)					
[19]Cantarello et al. 2011 the Tablon, Chiapas (La Sepultura Biosphere Reserve), and the Central Veracruz	Res						Exclusion of cattle and fire for natural succession to proceed	
[20]Carrasco-Carballido et al. 2019 Quilamula, Morelos	NatEv	Recovery of soil attributes	Performance of 6 tree species					
[21]Caso et al. 2007 Pacific Coast of Mexico	Res			El Niño/La Niña Oceanographic anomalies				Restoration planning
[22]Castillo-Mandujano 2010 Chamela, Jalisco	Res	Soil density and infiltration capacity	Performance of 2 species. Mortality due to dry season and seedling size.		<i>Mimosa arenosa</i>			
[23]Ceccon & Hernandez 2009 Xochicalco, Tembembe River Basin, Morelos	Res						Potential for natural succession: seed rain	
[24]Ceccon et al. 2012 Rio Tembembe Ecological Restoration Station	NatEv		Performance of <i>Acacia farnesiana</i> with N-fixing bacteria					
[25]Ceccon et al. 2015 Zacatepec, Morelos	Res	Litter decomposition and N levels	Plantings of four native tree species					

Reference/Locations	Type	Soil & slopes	Plantings	Climate	Invasive sp	Fire	Nat Succ	Others
[26]Cervantes et al. 1996 Alcozauca, Guerrero	Res		Propagation of four tree species: seed sources and storage					
[27]Cervantes et al. 1998 Alcozauca, Guerrero	Res		Propagation of 9 native tree species and optimal timing for transplanting					
[28]Cervantes et al. 2014 Tlaltizapán, Yautepec, Tepalcingo, Tlaquiltenango, Morelos	Res		Propagation of four tree species: four seed sources and storage					
[29]Cervantes-Gutiérrez et al. 2017 Nicolás Zoyatlan, Guerrero	Res	Slope effect on vegetation structure	Selection of species for plantings given their tolerance to disturbance					
[30]Corona-Núñez et al. 2021 “La Montaña” Guerrero	Res							Restoration planning: prioritization
[31]Encino-Ruiz et al. 2013 Cerro Punhuato, Michoacán	Pr	Soil temperature	Performance under nurse shrubs of 3 tree sp. Mortality due to soil temperatures					
[32]Fehling-Fraser & Ceccon 2015 Buenavista del Monte, Morelos	Res		Propagation of <i>Erythrina americana</i>					
[33]Gavito et al. 2008 Chamela, Jalisco	Res							Planning for restoration: Performance of 11 species in the greenhouse

Reference/Locations	Type	Soil & roslopes	Plantings	Climate	Invasive sp	Fire	Nat Succ	Others
								with mycorrhiza
[34]Gómez-Ruiz et al. 2020 Nuevo San Juan Parangaricutiro Community, Michoacan	Res						Assisted migration of two species	
[35]González-Díaz 2002 Chamela, Jalisco	Pr		39 tree species in three planting combinations. Higher mortality of late-successionals.					
[36]González-Tokman et al. 2018 Ejido San Mateo, Jalisco	NatEv		Performance of 11 tree species with mulching and management of grasses					
[37]Gove et al. 2005 Central coastal plain of Veracruz	Res							Recovery of animal populations
[38]Gove et al. 2009 La Mancha, Veracruz	Res							Planning for restoration: increasing matrix habitat quality
[39]Griscom & Ashton 2011 Review	Res	Included	Included		Included	Included	Included	
[40]Guerra-Martínez et al. 2019 Tehuantepec, Oaxaca	Res						Natural succession of 50 years	
[41]Guevara-Escobar et al. 2008 El Bajío, almost all Guanajuato and parts of Queretaro, Michoacan, State of Mexico and Hidalgo	Res		Selection of species to increase aquifer recharge: 12 species					

Reference/Locations	Type	Soil & roslopes	Plantings	Climate	Invasive sp	Fire	Nat Succ	Others
[42]Hernández et al. 2014 Chamela, Jalisco	NatEv							Recovery of animal populations
[43]Hernández-Muciño et al. 2015 La Montaña, Guerrero	NatEv	Quality if litter to recover soil attributes	Plantings of <i>Leucaena macrophylla</i>					
[44]Hernández-Oria et al. 2017 El Cimatario National Park, Queretaro	Res		Performance in plantings and direct seeding of <i>Lysiloma microphyllum</i> . Mortality due to predation of seeds and seedlings; microclimate					
[45]Huante et al. 2012 Chamela, Jalisco	Pr		Performance of six woody species with mycorrhiza					
[46]Juan-Baeza et al. 2015 Sierra de Huautla, Morelos	NatEv							Recovery of lepidopteran diversity
[47]Laborde & Corrales-Ferrayola 2012 Central Veracruz	Res		Direct seeding of two species in 7 habitats. Mortality due to predation by cattle (pastures) and low light levels (forest).					
[48]Lira-Caballero et al. 2018 Santa Maria Tiltepec, Oaxaca	Pr	Gully erosion	Plantings of <i>Erythrina americana</i>					
[49]López-Barrera et al. 2014 Central Veracruz	Res							Planning of restoration: prioritizing sites for restoration
[50]López-Jiménez 2019	Res						Planning of restoration by	

Reference/Locations	Type	Soil & roslopes	Plantings	Climate	Invasive sp	Fire	Nat Succ	Others
“El Zapotal”, Tizimín, Yucatán							natural succession	
[51]López-Toledo et al. 2011 Sierra de Álamos- Rio Cuchujaqui Reserve, Sonora	Res		Planting of <i>Brahea aculeata</i> , a useful species					
[52]Luna-Nieves et al. 2017 Zicuirán-Infiernillo Biosphere Reserve, Michoacán	Res		Phenology of 14 species to collect seeds to propagate them					
[53]Martínez- González et al. 2021 Emiliano Zapata, Veracruz	Res		Performance of <i>Ceiba aesculifolia</i> depending in seed size. Mortality due to herbivory					
[54]Meave et al. 2012 Nizanda, Oaxaca, Mexico	Res						Potential for natural regeneration: seed bank	
[55]Méndez-Toribio et al. 2019 Chamela, Jalisco	Res	Soil density, water infiltration					Techniques to accelerate succession	
[56]Monterrubio- Rico et al. 2010 Along the Pacific Coast	Res							Recovery of animal populations
[57]Monterrubio- Rico et al. 2014 Aquila, Lázaro Cárdenas and Arteaga, Sierra-costa central del Pacífico, Michoacán	Res							Recovery of animal populations; suggest species to plant for them.
[58]Moreno- Cassasola & Paradowska 2009 Central Veracruz	Res		Selection of species to increase richness					

Reference/Locations	Type	Soil & roslopes	Plantings	Climate	Invasive sp	Fire	Nat Succ	Others
[59]Negreros-Castillo et al. 2010 San Juan Evangelista, Veracruz	Res		Propagation conditions of three species in the nursery. Mortality due to soil conditions.					
[60]Nuñez-Cruz et al. 2018 Amatlán de Quetzalcoatl, Morelos	Res		Propagation of 8 species: phenology and germination					
[61]Osorio-Beristain et al. 2018 Sierra de Huautla, Morelos	NatEv							Recovery of animal populations
[62]Quesada et al. 2009 Review	Res				Included		Included	
[63]Quisehuatl-Medina et al. 2019 Sierra de Álamos-Rio Cuchujaqui, Sonora	Res						Favoring Natural succession	
[64]Renton et al. 2018 Chamela, Jalisco	Res			Hurricanes		Increase in probabilities due to hurricanes		Recovery of animal populations
[65]Reyes-Reyes 2002 Central highlands of Mexico	Res	C and N dynamics under trees	Selection of species					
[66]Rodríguez-Larramendi et al. 2018 Villa Allende Forest Reserve, Chiapas	Res		Selection of species					
[67]Sánchez-Soto 2016 El Realito, Sinaloa	Res		Propagation of <i>Caesalpinia platyloba</i>					

Reference/Locations	Type	Soil & roslopes	Plantings	Climate	Invasive sp	Fire	Nat Succ	Others
[68]Sánchez-Velásquez et al. 2004 Sierra de Manantlán Biosphere Reserve, Jalisco	Res		Establishment of <i>Brosimum alicastrum</i>					
[69]Sanfiorenzo-Barnhard et al. 2009 La Sepultura, Chiapas	Res						Natural succession in pastures	
[70]Saynes et al. 2005 Sierra de Huautla, Morelos	Res	soil carbon (C) and nitrogen (N) pools and turnover					Recovery of soil attributes during succesion	
[71]Siddique et al. 2021 Chamela, Jalisco	Res							Planning of restoration
[72]Solis-Gabriel et al. 2017 Chamela, Jalisco	NatEv							Recovery of animal populations
[73]Soriano et al. 2014 Chamela, Jalisco	Res		Propagation: seed storage and direct seeding					
[74]Soto-Correa et al. 2019 Queretaro	Res		Selection of species for plantings					
[75]Suárez et al. 2012 Central Veracruz	Res		Selection of species for plantings					
[76]Valdez-Hernández et al. 2019 Yucatán Peninsula	Res	Soil P and Organic matter					Soil properties during natural succession	
[77]Williams et al. 2017 Yucatán Peninsula	Res							Planning of restoration: site prioritization

Reference/Locations	Type	Soil & roslopes	Plantings	Climate	Invasive sp	Fire	Nat Succ	Others
[78]Williams-Linera et al. 2011 Veracruz	Res						Description of natural succession	
[79]Yañez-Espinosa et al. 2014 San Luis Potosi	Res		Propagation of <i>Dioon edule</i> . Mortality due to size of seedlings in the dry season					
[80]Zepeda-Gómez et al. 2017 Nanchititla, State of Mexico	Res		Selection of species for restoration plantings					
[81]Zulueta-Rodríguez et al. 2015 Actopan, Veracruz	Res		Propagation of <i>Jacaratia mexicana</i>					

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