

Resource or Value (Fundamental or Other Important)	Management Zone	Desired Condition(s)	Potential Attribute(s) (broad indicator topic)	Influence(s)	Potential Indicator(s) (a measurable parameter of the attribute - the unit of measurement)	Target Value(s)
<b>GEOLOGIC</b>						
Capitan Reef and Related Deposits	Designated wilderness and Backcountry	The park's geologic resources are preserved and protected as integral components of the park's natural systems. Paleontological resources, including both organic and mineralized remains in body or trace form, are protected, preserved, and managed for public education, interpretation, and scientific research. Nonrenewable geologic and paleontological resources are protected, conserved, and maintained.	1. Fossil reef exposures/paleo specimens; 2. Hillslope features and processes		1. Presence/absence of exposures; 2. % bare ground or number and size of bare ground patches	
Type Localities			Fossil species			
Type Sections			Geologic formations			
Western Escarpment Geological Section	Designated wilderness	The park's geologic resources are preserved and protected as integral components of the park's natural systems. Paleontological resources, including both organic and mineralized remains in body or trace form, are protected, preserved, and managed for public education, interpretation, and scientific research. Nonrenewable geologic and paleontological resources are protected, conserved, and maintained.	Geologic strata/fault		Presence/absence of strata	
Guadalupean Stratotype						
Salt Basin	Backcountry	The park's geologic resources are preserved and protected as integral components of the park's natural systems. Paleontological resources, including both organic and mineralized remains in body or trace form, are protected, preserved, and managed for public education, interpretation, and scientific research. Nonrenewable geologic and paleontological resources are protected, conserved, and maintained.	1. Landforms and geomorphic features (coppice dunes, shoreline terraces and ridges, salt lake deposits, gypsum sand dunes); 2. Windblown features and processes (dune formation and stability)		2. LIDAR mapping of spatial extent (dune margins)	
Museum Collections	N/A	Paleontological resources, including both organic and mineralized remains in body or trace form, are protected, preserved, and managed for public education, interpretation, and scientific research. All museum collections (objects, artifacts, specimens, and manuscript collections) are identified and inventoried, catalogued, documented, preserved, and protected. Provision is made for access to and use of items in the collections for exhibits, research, and interpretation. The qualities that contribute to the significance of collections are protected in accordance with established standards.	Type specimens and field notes		Automate Museum Checklist (AMC) selected standards for condition	

SCENIC						
Unobstructed Views	Parkwide	Air quality in the park meets national ambient air quality standards for criteria pollutants. Park air quality is maintained or enhanced with no significant deterioration. Nearly unimpaired views of the landscape both within and outside the park are present. Scenic views are substantially unimpaired. Scenic vistas from within and outside the park boundaries are protected from significant intrusions.	1. Air quality; 2. Visibility; 3. Land use changes within Chihuahuan Desert			1. NPS Air Atlas; 2. Ozone concentrations and particulate matter in air; Fine particles in air and light scattering and/or absorption; 3. Changes in land cover classes, structures, oil and gas fields/pads, human population growth, impervious surfaces, roads (inside and proximal to parks)
El Capitan	Designated wilderness		Views of the face and summit			
Guadalupe Peak	Backcountry		Views of the summit			
Night Sky	Parkwide	Excellent opportunities to see the night sky continue to be available. Artificial light sources both within and outside the park do not unacceptably adversely affect opportunities to see the night sky.	Dark skies/nocturnal lightscapes			Ambient light conditions
McKittrick Canyon	Wilderness threshold		Deciduous trees and shrubs (fall colors)			Automated photo-records (vicinity of weather stations) of leaf-out rates, flowering and fruiting, remote sensing of larger scale rates of deciduous leaf-out chronologies
Gypsum Dunes	Backcountry		Expanse of dunes			
Views of the Western Escarpment	Designated wilderness		Expansive views			
Views of canyons throughout the park	Parkwide		Rugged, deep canyons			
Wilderness character	Designated wilderness and Backcountry	Wilderness characteristics and values are retained and protected. Visitors continue to find opportunities for solitude and primitive, unconfined recreation. Signs of people remain substantially unnoticeable. The National Park Service preserves the natural ambient soundscapes, restores degraded soundscapes to the natural ambient condition wherever possible, and protects natural soundscapes from degradation resulting from human-caused noise. Wildness. Wilderness is managed to retain its primeval character and natural conditions.	1. Soundscape; 2. Aesthetics; 3. Air Quality (air contaminants - lichen/mosses as biomonitors)			1. Acoustic conditions/Noise free interval; 2. Density of social trails, waste; 3. % cover or size, abundance/spatial distribution, and chemical composition of indicator species

NATURAL						
Wilderness	Designated wilderness	In these undisturbed natural settings, natural processes predominate.	1. Ecosystem; 2. Vegetation; 3. Wildlife		2. Index of plant species diversity, invasive plant species relative cover	
Natural Hydrologic Processes		Surface water and groundwater are protected and water quality meets or exceeds all applicable water quality standards. Watersheds are managed as complete hydrologic systems. This includes minimizing human-caused disturbance to the natural upland processes that deliver water, sediment, and woody debris to streams. Natural fluvial processes are allowed to proceed unimpeded, and stream processes that create habitat features are protected. Where stream manipulation is unavoidable, maximum use is made of techniques that are visually unobtrusive and that protect natural processes. The park is managed holistically, as part of a greater ecological system. Natural floodplain values are preserved or restored. Long-term and short-term environmental effects associated with the occupancy and modification of floodplains are avoided. The natural and beneficial values of wetlands are preserved and enhanced. A "no net loss of wetlands" policy is implemented, with an associated goal of net gain of wetlands through the restoration of previously degraded wetlands.	1. Stream channel characteristics; 2. Watershed integrity		1. Proper Functioning Condition (PFC)	
	Parkwide					
Aquatic species- riparian community in desert	Parkwide		1. Aquatic vegetation; 2. Fish assemblages; 3. Invertebrates in aquatic systems		1. Index of plant diversity; 2. Fish population assessment models; 3. Bio criteria and habitat indices	
Ground water, perennial streams, springs, seeps, travertine	Parkwide	See "natural hydrologic processes" above.	1. Groundwater dynamics; 2. Surface water dynamics; 3. Persistence of springs and seeps; 4. Water quality (surface and groundwater)		1. Elevation of top of saturation zone relative to sea level; 2 & 3. Presence of standing water, daily temperature; hydroperiods, stage, discharge (flow rate), or frequency of occurrence for ephemeral systems; 4. Water column temperature, specific conductance, concentration of dissolved oxygen, bacteria loads, concentrations of pertinent organic and inorganic constituents, water clarity; State water quality standards; NPS core water quality parameters	
Northern Chihuahuan Desert communities	Parkwide					

Array of succulent species	Parkwide		Vegetative diversity		Presence/Absence; Index of plant diversity	
Grassland communities	Parkwide		1. Vegetative integrity; 2. Vegetation patch dynamics; 3. Soil function and dynamics (biological soil crusts); 4. Soil erosion (wind and water)		1. % relative cover; Frequency of obligate species; 2. Gap dynamics and spatial (mapped) patterns especially at ecotones; 3. Form, cover and composition by structural group; 4. Soil stability	
Riparian/Canyon	Parkwide		Riparian Vegetation		Potential plant community	
Montane/Sky Island	Designated wilderness and Backcountry					
Sustainable suite of forest species			1. Montane forest; 2. Forest health		2. Fractional cover within map units, leaf area index, mapped vegetation classes with appropriate attribute data (like tree ages/size classes), remote sensing data parameters (biomass indices, brightness indices, SAVI, NDVI, EVI)	
Relict forest species			Douglas fir			
Rare and endangered species	Parkwide	Federal and state-listed threatened and endangered species and their habitats are protected and sustained. Native threatened and endangered species populations that have been severely reduced in or extirpated from the park are restored where feasible and sustainable.	Plant and animal species (listed or species of concern)		Abundance, distribution, movement, gene flow, viability	
Natural diversity	Parkwide		1. Native plant community composition; 2. Bird communities; 3. Mammals		1. Potential plant community; presence of invasive species in and out of park units, distance to closest population, spatial distribution and predicted rate of spread; % cover and heights by species, growth-forms, or functional groups 2. Abundance, species diversity stratified by focal habitats and key seasons; 3. Distribution and abundance of heteromyid rodents; abundance, species diversity stratified by focal habitats	

CULTURAL						
Archeological Resources	Parkwide	Archeological sites are identified and inventoried, and their eligibility for listing in the National Register of Historic Places determined and documented. The qualities that contribute to the listing or eligibility for listing are protected in accordance with the Archeology and Historic Preservation: Secretary of the Interior's Standards and Guidelines. Archeological sites are protected in an undisturbed condition unless it is determined through formal processes that disturbance or natural deterioration is unavoidable. The park is managed holistically, as part of a greater...social and cultural system.	Prehistoric and historic archeological sites		Archeological Sites Management Information System (ASMIS) Assessment	
Pre-historic lithic scatters, hearths						
Proto-historic ceramics, pot shards, roasting pits						
Historic Native American midden rings, rock art						
Pinery Station ruins						
Emigrant Trail to California and Butterfield Stage Route segments						
Historic military, encampments						
Ranching Landscape		Historic structures are inventoried and their integrity and eligibility are evaluated under National Register of Historic Places criteria. The qualities that contribute to the listing or eligibility for listing of historic structures in the National Register of Historic Places are protected in accordance with the <i>Secretary of the Interior's Standards for the Treatment of Historic Properties: with Guidelines for Preserving, Rehabilitating, Restoring &amp; Reconstructing Historic Buildings</i> . Cultural landscape inventories are conducted to identify landscapes potentially eligible for listing in the National Register of Historic Places. The management of cultural landscapes focuses on preserving the physical attributes, biotic systems, and use when that use contributes to their historical significance.	Historic structures and cultural landscapes (physical condition and integrity)		Cultural Landscape Inventory (CLI) Assessment; Cultural Landscape Report (CLR) recommendations; Facility Management Software System (FMSS) Asset Condition; List of Classified Structures (LCS) Assessment	
Williams Ranch	Frontcountry	Significant cultural resources are preserved or potentially rehabilitated for operational or visitor use.				

Frijole Ranch/Guadalupe Mountain Ranch	Developed & Frontcountry	Significant cultural resources are preserved or rehabilitated for operational or visitor use.				
Grisham-Hunter Line Cabin	Frontcountry	Significant cultural resources are preserved or potentially rehabilitated for operational or visitor use.				
Wallace Pratt Properties		Historic structures are inventoried and their integrity and eligibility are evaluated under National Register of Historic Places criteria. The qualities that contribute to the listing or eligibility for listing of historic structures in the National Register of Historic Places are protected in accordance with the <i>Secretary of the Interior's Standards for the Treatment of Historic Properties: with Guidelines for Preserving, Rehabilitating, Restoring &amp; Reconstructing Historic Buildings</i> .	Historic structures and cultural landscapes (physical condition and integrity)		Cultural Landscape Inventory (CLI) Assessment; Cultural Landscape Report (CLR) recommendations; Facility Management Software System (FMSS) Asset Condition; List of Classified Structures (LCS) Assessment	
Pratt Cabin	Wilderness threshold	Significant cultural resources are stabilized and preserved as necessary.				
Ship on the Desert	Developed	Significant cultural resources are preserved or rehabilitated for operational or visitor use.				
Spanish Exploration	Parkwide					
Present-Day Religious Practices	Parkwide	The park is managed holistically, as part of a greater...social and cultural system. NPS general regulations on access to and use of natural and cultural resources in the park are applied in an informed, balanced manner that is consistent with park purposes, does not unreasonably interfere with American Indian use of traditional areas or sacred resources, and does not result in the degradation of park resources. All ethnographic resources listed in the National Register of Historic Places or determined eligible for listing are called traditional cultural properties and are protected through tribal consultation.	Ethnographic resources/traditional use areas (physical condition and integrity)		Level of alteration of traditional use areas	

Footnote: Arial font indicates information taken from Table 1 of the GMP; Times New Roman font is from Table 4. Red font represents Vital Signs and indicators for the park taken from Chihuahuan Desert Network.