

**Table S1.** Table of relationships made between the final land cover classification system and INEGI data. Rows of the table correspond to land cover classes which share similar vegetation characteristics at a high level. This table was designed to facilitate the initial validation of the final results in comparison with open-source reference maps from INEGI.

Land Cover Class	INEGI Class
Open Water (Fresh)	Water Body
Mojave Mid-Elevation Mixed Desert Scrub, Sonoran Mid-Elevation Desert Scrub, Chihuahuan Succulent Desert Scrub, Sonoran Paloverde-Mixed Cacti Desert Scrub	Rosetophyllous Desert, Sarcocaulous Shrubland, Crassicaulescent Shrubland, Sarco-crassicaulescent Shrubland
Madrean Encinal, Mogollon Chaparral, Madrean Pinyon-Juniper Woodland, Colorado Plateau Pinyon-Juniper Woodland, Madrean Juniper Savanna, Madrean Pine-Oak Forest and Woodland	Chaparral, Oak-Pine Forest, Pine Forest, Oak Forest
North American Warm Desert Riparian Woodland and Shrubland, North American Warm Desert Lower Montane Riparian Woodland and Shrubland, Introduced Riparian and Wetland Vegetation,	Gallery Forest, Gallery Vegetation, Subtropical Shrubland
North American Arid West Emergent Marsh,	Tule Vegetation, Mangrove Swamp
Undifferentiated Barren Land, North American Warm Desert Pavement, North American Warm Desert Active and Stabilized Dune, Chihuahuan Stabilized Coppice Dune and Sand Flat Scrub, Inter-Mountain Basins Shale Badland, North American Warm Desert Bedrock Cliff and Outcrop, North American Warm Desert Volcanic Rockland, North American Warm Desert Wash	No Apparent Vegetation, Sandy Desert Vegetation, Coastal Dune Vegetation,
Chihuahuan Creosotebush, Mixed Desert and Thorn Scrub; Sonora-Mojave Creosotebush-White Bursage Desert Scrub	Microphylls Desert, Induced Pasture
North American Warm Desert Playa, Inter-Mountain Basins Playa	Hydrophilic Halophile Vegetation, Coastal Dune Vegetation
Apacherian-Chihuahuan Mesquite Upland Scrub, North American Warm Desert Riparian Mesquite Bosque	Xerophytic Mesquite, Mesquite Forest
Apacherian-Chihuahuan Semi-Desert Grassland and Steppe	Natural Grassland
Sonora-Mojave Mixed Salt Desert Scrub	Xerophytic Halophile Vegetation