



Description of the classes of land use and land cover used in the
Legend of MapBiomás Argentina Collection 1.

Class Level 1	Class Level 2	Region	Description	LC INTA*	UMSEF**	FAO classes***	IPCC classes**	Google Earth	Landsat Image	Photo
Natural wooded vegetation	Closed Woodland	Atlantic Forest	Natural vegetation areas formed by trees with a cover greater than or equal to 65%	2.1.1	TF	FEP, FDP,FSP, WS	3B1	BA_LeñosaCerrada.png	BA_LeñosaCerrada_L.jpeg	BA_LeñosaCerrada_SV.png
		Chaco	Areas with natural vegetation formed by trees, shrubs or a mixture of both, with a cover of 65%	2.1.1, 2.2.1	TF,OTF			GE_VNI_LC_Chang.png	LA_VNI_LC_Chang.png	chaqueo_PN.png
		Monte, Puna and High Andes	Areas with natural vegetation formed by trees, shrubs, or a mixture of both, with a cover of 65% or more.	2.1.1, 2.2.1	TF,OTF			PMAA_LeñosaCerradas.png	PMAA_Lcerradas_Landsat.png	PMAA_LeñosaCerradas_SV.png
		Pampas	Woody natural vegetation with a continuous canopy of trees or shrubs, with crowns that touch or are slightly separated, with cover greater than 65%.	2.1.1, 2.2.1	TF,OTF			Pampa_BosqueCerrado_AltaResolucion.png	Pampa_BosqueCerrado_Landsat.png	Pampa_BosqueCerrado_Paisaje_Suklje.png
		Patagonia	Areas with natural vegetation formed by trees with a cover of 30% or more. Dense tree cover, with evergreen (coihue, cypress, alerce) or deciduous (lenga, raulí, pellin oak, valley bottom ñirantales, araucaria) foliage and their combinations.	2.1.1	TF			PAT_BosqueCerrado.png	PAT_Lcerrada_Landsat.png	PAT_BosqueCerrado_SV.png
	Open woodland	Chaco	Areas with natural vegetation formed by trees, shrubs, or a mixture of both, with a cover of 20% or more and less than 65%.	2.1.3, 2.2.3	TF,OTF	WG, WS	3B6	CH_LAbierta.png	CH_LAbierta_Landsat.png	CH_LAbierta_SV.png
		Monte, Puna and High Andes	Areas with natural vegetation formed by trees, shrubs, or a mixture of both, with a cover of 20% or more and less than 65%.		TF,OTF			PMAA_LeñosaAbiertas.png	PMAA_LAbiertas_Landsat.png	PMAA_LeñosaAbiertas_SV.png
		Pampas	Woody natural vegetation of trees or shrubs, with discontinuous crowns, with a cover of more than 20% and less than 65%. Includes open sclerophyllous forest (Caldenal).		TF,OTF			Pampa_BosqueAbierto_AltaResolucion.png	Pampa_BosqueAbierto_Landsat.png	Pampa_BosqueAbierto_Paisaje_Cuerralara.jpg
		Patagonia	Natural vegetation cover with a predominance of shrubs.		OTF			PAT_Arbustales.png	PAT_Arbustales_Landsat.png	PAT_Arbustales_SV.png
	Sparse Woodland	Chaco	Areas with natural vegetation formed by trees, shrubs, or a mixture of both, with a cover of 5% or more and less than 20%.	2.1.3, 2.2.3	OT	WG, WS	3B6	CH_LDispersas.png	CH_LDispersas_Landsat.png	bch_LENOSADISPERSA_CiselaCórdoba.JPG
		Monte, Puna and High Andes	Areas with natural vegetation formed by trees, shrubs, or a mixture of both, with a cover of 5% or more and less than 20%.		OT			PMAA_LeñosaDispersas.png	PMAA_LDispersas_Landsat.png	PMAA_LeñosaDispersa_ciemplio.jpeg
	Flooded Woodland	Chaco	Transitional areas between pure terrestrial and aquatic systems, where the water table is usually at or near the surface (flooded areas). The natural vegetation cover formed by trees, shrubs, or a mixture of both is significantly influenced by water and/or depends on flooding.	3.1, 3.2	OT	FEP,FDP,FSP,WS	3B1	CH_LInund.png	CH_LInund_Landsat.png	bch_Leñosas_Lundables_Gisela_Cordoba.JPG
	Non-wooded floodable vegetation	Atlantic Forest	Chaco	Vegetation cover is significantly influenced by water and/or dependent on flooding (e.g., estuaries, wetlands, streams, marshes, and waterbeds).	3.3	OT	OM	3B4	BA_NoInd.png	BA_NoInd_L.jpeg
Chaco			Transitional areas between pure terrestrial and aquatic systems, where the water table is usually at or near the surface (flooded areas). The natural vegetation cover formed by herbaceous plants is significantly influenced by water and/or depends on flooding (e.g., estuaries, wetlands, streams, marshes, and waterbeds).	3.3	OT	CH_PInund.png			CH_PInund_Landsat.png	Chaco_Humedal_Ejemplo.png
Monte, Puna and High Andes			Areas with natural vegetation influenced by a shallow water table or dependent on flooding.	2.2.2, 2.3.2	OT	PMAA_NLinund.png			PMAA_NLinund_Landsat.png	Pastizal_inundable_Puna_MN
Pampas		Predominantly native herbaceous natural vegetation influenced by excess water. It occupies hydromorphic soils that are permanently or temporarily flooded. It includes wetlands, estuaries, and the banks of lagoons and other water bodies with typically hygrophilic vegetation, with aquatic and palustrine herbs, which occupy plains and depressions that remain flooded for short (months) or long periods (years).	3.3	OT	Pampa_PastizalInundable_AltaResolucion.png	Pampa_PastizalInundable_Landsat.png			Pampa_PastizalInundable_Paisaje_Iturnalde.jpg	

Non-wooded natural formation	Grassland	Patagonia	Transitional areas between pure terrestrial and aquatic systems, where the water table is usually at or near the surface (flooded areas). The natural vegetation cover formed by herbaceous plants is significantly influenced by water and/or depends on flooding (e.g., estuaries, wetlands, streams, marshes, and waterbeds). This class incorporates "mallines" in the steppe, important ecosystems for livestock production, as they are the main source of forage.	3.3	OT			PAT_NLInd.png	PAT_NLInd_Landsat.png	PAT_PastizalIndable_Ejemplo.JPG		
		Atlantic Forest	Herb-dominated covers that show no signs of human intervention such as subdivisions or waterholes. In this category, the presence of woody plants is allowed, but they must cover less than 20% of the area.	2.3	OT	WG, OG	3B3	BA_PZ.png	BA_PZ_L.jpeg	BA_PZ_SV.png		
		Chaco	Areas with natural vegetation formed by herbaceous plants with a cover equal to or greater than 5%. In this category, the presence of woody plants is allowed, but they must have a cover of between 1-5% and 20%.		OT			CH_PZ_Google.png	CH_PZ_Landsat.png	01_Pastizal_chaqueño_PN_Copo_Lizarraga		
		Pampas	Natural herbaceous vegetation, or naturalized (i.e., does not require human intervention to maintain itself for a long time). In general, it presents a mixture of grasses and herbaceous dicotyledons, or sub-shrubs and occasionally woody plants with less than 20% cover. In general, there is a dominance of native species over implanted or naturalized exotic species. The physiognomy and its botanical composition are influenced by edaphic-topographic gradients and pastoral use. It occupies deep or shallow soils, up to very flat and rocky, well-drained (psamophilic), poorly drained (humid, with a notable presence of sedges), and or under saline influence (halophilic). In general, it is used for livestock purposes.		OT			Pampa_Pastizal_AltaResolucion.png	Pampa_Pastizal_Landsat.png	Pampa_pastizal_Julio_Monquillot.jpg		
		Patagonia	Areas with natural vegetation formed by herbaceous plants. In this category, the presence of woody plants is allowed, but they must have a cover of between 1-5% and 20%.		OT			PAT_Pastizales_Google.png	PAT_Pastizales_Landsat.png	PAT_Pastizal_Ejemplo.JPG		
		Steppe	Monte, Puna and High Andes	Areas with natural vegetation formed by herbaceous plants. In this category, the presence of woody plants is allowed with a cover of less than 20%.	2.2.2, 2.3.2	OT	OG,WS, WG	3B6	PMAA_Estepa.png	PMAA_Estepa_Landsat.png	Estepa mixta_Puna_Lizarraga.jpeg	
			Patagonia	This class includes grasslands, shrub-grasslands, and shrublands. Combination of shrubs and medium-height grasses (20 to 80 cm) or dwarf shrubs (cushions of 5 to 20 cm) with sparse grasses.		OT			PAT_Estepa_Google.png	PAT_Estepa_Landsat.png	PAT_Estepa_SV.png	
		Pasture	Pasture	Atlantic Forest	Areas with herbaceous crop cultivation for forage purposes (animal production).	1.3	OT	OP	3B3	BA_Pastura_Google.png	BA_Pastura_Landsat.png	BA_Silvo_Foto.jpg
				Chaco	Areas with herbaceous crop cultivation for forage purposes (animal production).		OT			CH_Pasturas.png	CH_Pasturas_Landsat.png	BCH_pastura_Cisela_Córdoba.JPG
				Pampas	Pastures are composed of cultivated herbaceous vegetation with one or more perennial forage species, generally exotic grasses and legumes. They require human intervention to maintain their condition over time.		OT			Pampa_Pasturas_AltaResolucion.png	Pampa_Pasturas_Landsat.png	Pampa_Pastura_Paisaje_Iturnalde.jpg
Agriculture	Atlantic Forest		This category includes crops of annual herbaceous plants, mainly cereals and legumes, for grain or fiber production.	1.3	OT	OCA, OF	3B2	BA_CA.jpeg	BA_CA_L.jpeg	BA_Anual_Foto.jpeg		
	Chaco		This class includes crops of annual, biennial, or perennial herbaceous species for the production of grains or fibers. It encompasses all modalities or sequences of crops in time (rotations or alternations) and space (combined or intercropped crops).		OT			CH_Agric.png	CH_Agric_Landsat.png	Agricultura_soat_Iturnalde.jpg		
	Pampas		La agricultura corresponde a las áreas ocupadas con cultivos anuales, o sea que hayan sido plantadas o cosechadas durante el año de referencia. Incluye las áreas de cultivos extensivos, verdes anuales y de horticultura. Se incluye también áreas con período de descanso entre siembras agrícolas		OT			Pampa_Agricultura_AltaResolucion.png	Pampa_Agricultura_Landsat.png	Pampa_Agricultura_Paisaje_Iturnalde.jpg		

Agricultural and Livestock Area	Forest plantation	Atlantic Forest	Planted tree species (e.g., eucalyptus, pine, araucaria).	1.1	OT	FPB, FPC, FPM, OCP	3B1, 3B2	BA_Plantaciones.png	BA_Plantaciones_Landsat.png	BA_Plantaciones_SV.png
		Chaco	Areas with tree crops (e.g.: pine or poplar plantations, citrus plantations, pome or stone fruit plantations).	1.1	OT			CH_Plantaciones.png	CH_Plantaciones_Landsat.png	CH_Plantaciones_SV.png
		Monte, Puna and High Andes	Areas covered by woody vegetation of anthropogenic origin. In this region, this class includes trees and shrubs cultivated without discrimination.	1.1, 1.2	OT			PMAA_Plantaciones.png	PMAA_Plantaciones_Landsat.png	PMAA_Plantaciones_SV.png
		Pampas	Silviculture refers to the use of areas with plantations of woody plants, generally of exotic species.	1.1	OT			Pampa_PlantacionForestal_AltResolucion.png	Pampa_PlantacionForestal_Landsat.png	Pampa_PlantacionForestal_Paisaje_Tate.png
		Patagonia	Areas with tree crops (e.g.: pine or poplar plantations, citrus plantations, pome or stone fruit plantations).	1.1	OT			PAT_Plantaciones.png	PAT_Plantaciones_Landsat.png	PAT_Plantaciones_SV.png
	Shrub Plantation	Atlantic Forest	Areas with shrub crops (e.g., blueberries, grapes, yerba mate, tea).	1.2	OT	OCP	3B2	BA_CultivoArbustivo.png	BA_Carbustos_Landsat.png	BA_CultivoArbustivo_SV.png
		Chaco	Areas with shrub crops (e.g., blueberries, grapes).		OT			CH_Carbustos.png	CH_Carbustos_Landsat.png	CH_Arbustivos_SV.jpeg
	Mosaic of agriculture and pasture	Monte, Puna and High Andes	Areas with anthropogenic vegetation cover formed by a heterogeneous association in time and space of agriculture, pastures, vegetables, and fruit trees, generally small-scale, typical but not exclusive of irrigated areas.	1.3	OT	OCM, OCA, OP, OF	3B2	PMAA_Mosaico.png	PMAA_Mosaico_Landsat.png	PMAA_Mosaico_SV.png
		Patagonia	Areas where natural vegetation has been modified, eliminated, or replaced by other types of anthropogenic vegetation cover, formed by a heterogeneous association of agriculture, pasture, vegetables, and fruit trees in river valleys.		OT			PAT_MosaicoUsos_Satellite.JPG	PAT_MosaicoUsos.JPG	PAT_Mosaico.JPG
	Non-Vegetated Area		Atlantic Forest	Areas with vegetation cover of less than 5%. Mixed class that includes beaches, dunes, and salt flats (bright white sandy strips where there is no predominance of vegetation of any kind), urban and rural infrastructure (with a predominance of non-vegetated surfaces such as buildings and asphalt, excluding situations of vegetation in settlements such as trees or grasses), mining areas (such as quarries, open-pit mining, without the presence of water), rocky outcrops (naturally exposed rock on the surface without vegetation cover) and other areas with scarce or no vegetation cover.	4,5	OT	OB, OX, OQ	3B5, 3B6	BA_ANV.png	BA_ANV_Landsat.png
Chaco			OT			CH_ANV.png			CH_ANV_Landsat.png	CH_ANV_SV.png
Monte, Puna and High Andes			OT			PMAA_ANV.png			PMAA_ANV_Landsat.png	Salar_Puna_Maria_Muñoz.jpg
Pampas			OT			Pampa_AreaNoVegetada_AltResolucion.png			Pampa_AreaNoVegetada_Landsat.png	Pampa_AreaNoVegetada_Paisaje_CobBA.jpg
Patagonia			OT			PAT_ANV.png			PAT_ANV_Landsat.png	PAT_ANV_SV.png
Water Body	River, Lake or Ocean	Atlantic Forest	Areas with permanent surface water. It includes streams, rivers, lagoons, natural and artificial lakes, and the ocean.	6, 7.1	OT	IRP, IRS, IL, ID, IP, OX	3B4	BA_Agua_Google.png	BA_Agua_Landsat.png	PNiguazu_agua_Guillermo_Gil.jpg
		Chaco			OT			CH_Agua.png	CH_Agua_Landsat.png	Chaco_Rio_Elemplo.jpeg
		Monte, Puna and High Andes			OT			PMAA_Agua.png	PMAA_Agua_Landsat.png	PMAA_Agua_SV.png
		Pampas			OT			Pampa_RioLagoOceano_AltResolucion.png	Pampa_RioLagoOceano_Landsat.png	pampa_laguna_de_cangrejal_Soledad_Castillo.png
		Patagonia			OT			PAT_Agua.png	PAT_Agua_Landsat.png	PAT_Agua_SV.png
	Ice and Snow on the Surface	Monte, Puna and High Andes	Areas with permanent and superficial snow or ice cover, generally located in the Andean peaks.	7.2	OT	Not applicable	3B6	PMAA_Hielo.png	PMAA_Nieve_Landsat.png	PMAA_Hielo_SV.png
		Patagonia	Does not include debris glaciers.		OT			PAT_Hielo.png	PAT_Nieve_Landsat.png	PAT_Hielo_SV.png
Not observed			Area blocked by clouds or atmospheric noise, or without observation.	NO	NO	NO	NO	NO	NO	

*LC INTA: <https://www.yumpu.com/es/document/view/14121760/lccs-fao-manual-usuariopdf-inta>

** UMSEF: https://www.argentina.gob.ar/sites/default/files/primer_inventario_nacional_-_informe_nacional_1.pdf

*** FAO: <https://www.fao.org/land-water/land/land-governance/land-resources-planning-toolbox/category/details/en/c/103636/>

**** IPCC: https://unfccc.int/sites/default/files/resource/92814035_Argentina-BUR3-1-INFORME%20NACIONAL%20DE%20INVENTARIO%20DE%20GEE%20DE%20LA%20REPUBLICA%20ARGENTINA.pdf