OSM Data Usage in Esri's ArcGIS Online Basemaps

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Overview

Esri is expanding coverage and content in its publically available basemap services hosted on ArcGIS Online. To expand coverage at large scales globally, Esri is embracing the OpenStreetMap (OSM) community to supplement content and produce cartographic products in the ArcGIS Online Basemap cartographic styles. An important aspect of being part of the OSM community is abiding by its <u>licensing and use guidelines</u> when working with OSM data. Esri took great care to ensure the process of obtaining and processing the OSM data is a "Trivial Transformation" for "Produced Works" served by Esri through the ArcGIS Online Platform.

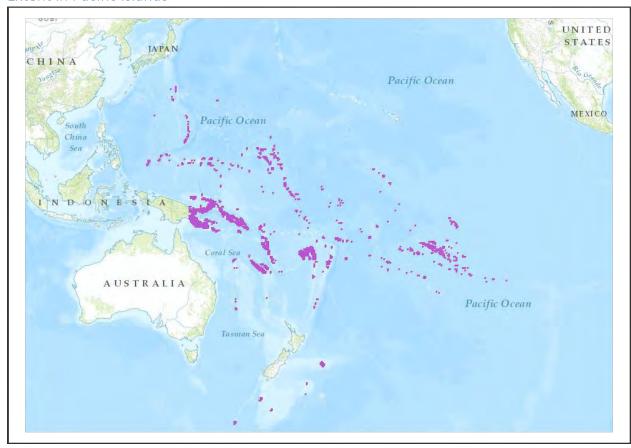
In other words, Esri has not changed the source of the data in terms of its geometric representation or attribution but rather adjusted the geographic projection from WGS84 to Web Mercator Auxiliary Sphere and transformed features from the OSM format into the Esri Geodatabase model while preserving the original character values for feature labeling. More details on feature mapping are listed below. This document outlines the procedures Esri used to obtain OSM source, process the content to a rendering database, and produce a cartographic product.

Extent in Africa



Extent of OSM Content in Esri's Basemaps in Purple Shading

Extent in Pacific Islands



Extent of OSM Content in Esri's Basemaps in Purple Shading

List of countries in Africa

Algeria	Democratic Republic of the Congo	Liberia	Rwanda
Benin	Djibouti	Libya	Saint Helena
Burkina Faso	Equatorial Guinea	Madagascar	Sao Tome and Principe
Burundi	Eritrea	Malawi	Senegal
Cameroon	Ethiopia	Mali	Seychelles
Cape Verde	Gabon	Mauritania	Sierra Leone
Central African Republic	The Gambia	Mauritius	Somalia
Chad	Ghana	Mayotte	South Sudan
Comoros	Guinea	Niger	Sudan
Congo, Republic of	Guinea-Bissau	Reunion- France	Tanzania
		Tunisia	Togo

List of Pacific Islands

American Samoa (US)	Heard Island and McDonald Islands	Palau
Christmas Island	Kiribati	Pitcairn (UK)
Cocos (Keeling) Islands	Marshall Islands	Samoa
Cook Islands (NZ)	Mauritius	Solomon Islands
Federated States of Micronesia	Nauru	Tokelau (NZ)
Fiji	New Caledonia	Tonga
French Polynesia (FR)	Niue (NZ)	Tuvalu
French Southern Territories	Norfolk Island	Vanuatu
Guam	Northern Mariana Islands	Wallis and Futuna (FR)

Themes

Esri included the following data themes in the ArcGIS Online Basemap content from OpenStreetMap.

Road Centerlines	Land Use Polygons
Administrative Boundary	Tree Points
Railways	Building Footprints
Walls & Fences	Landscaped Polygons
Trails and paths	Parking Lots
Waterlines and Water bodies	Points of Interest

General Workflow

- 1. Esri obtained the OSM source data from http://download.geofabrik.de/. The entire continent of Africa was downloaded in .osm file format.
- 2. Esri used the Load OSM tool in ArcMap to convert the .osm format to a file-based geodatabase of points, lines, and polygons (.gdb) as well as their respective attribute tags. This tool is available through Github (https://github.com/Esri/arcgis-osm-editor) as well as from the Esri Products website http://www.esri.com/software/arcgis/extensions/openstreetmap.
- 3. Next, Esri re-projected the file geodatabase from WGS84 to Web Mercator Auxiliary Sphere using ArcGIS.
- 4. The OSM.gdb was then converted to the Esri database model to build the cached basemaps in ArcGIS Online. The conversion involved configuring and executing the process in the ArcGIS Data Interoperability Extension. The conversion used the feature and attribute mapping outlined in the Mapping Matrix section in Appendix A.
- Once the data was converted to the Esri database model, the layers were pointed to ArcGIS Map Documents (MXDs) which contained the parameters used for rendering the following basemaps: World Street Map, World Topographic Map, LightGray Canvas Base, Boundaries and Places, and Transportation.
- 6. The Map Documents were then cached to JPEG 90 compression format map tiles using ArcGIS Server from scale 1:288,000 1:1,000.
- 7. Then, the map tiles were deployed to the ArcGIS publishing environment as public map services.

Mapping Matrix

Esri used the table in Appendix A to map attributes from the OSM source to the Esri database model.

			Administrative Area Bo				
	OSM Polygon Fields		undaryLine				
boundary	admin_level	place	SUBTYPEFIELD				
administrative	2		0				
administrative	4	state	1				
administrative	6	county	2				
administrative	8	city	3				
administrative	8	hamlet	3				
administrative	8	suburb	3				
administrative	8	town	3				
administrative	8	village	3				
OSM P	olygon Fields	Railroad					
railway	highway	RAILTYP					
rail		Rail					
funicular		Tram					
light_rail		Lightrail					
monorail		Monorail					
narrow_gauge		Rail					
subway		Subway					
tram		Tram					
	bus_guideway	Streetcar					
				1	<u> </u>	1	1

	OSM	Polygon Fields			RoadCenterline						
highway	osm_junction	route	waterway	sm_onewa	ROADCLASS	Carto	ONEWAYDIR				
byway					Local	5					
byway	roundabout				TC Local	18					
dirtroad					4WD	19					
footway					Pedestrian	6					
ford					Other	23					
living_street					Local	5					
living_street	roundabout				TC Local	18					
motorway					Freeway	1					
motorway	roundabout				TC Freeway	14					
motorway_link					Ramp	8					
motorway_link	roundabout				TC Freeway	14					
pedestrian					Pedestrian	6					
primary					Highway	2					
primary	roundabout				TC Highway	15					
primary_link					Ramp Highway	9					
primary_link	roundabout				TC Highway	15					
residential					Local	5					
residential	roundabout				TC Local	18					
road					Local	5					
road	roundabout				TC Local	18					
secondary					Major Arterial	3					
secondary	roundabout				TC Major Arterial	16					
secondary_link					Ramp Major Arterial	10					
secondary_link	roundabout				TC Major Arterial	16					
service					Service	7					
steps					Pedestrian	6					
tertiary					Minor Arterial	4					
tertiary	roundabout				TC Minor Arterial	17					
tertiary;track					Local	5					
tertiary;track	roundabout				TC Local	18					
tertiary_link					Minor Arterial	4					

	OS	M Polygon Field	ds	RoadCenterline								
highway	osm_junction	route	waterway	sm_onewa	ROADCLASS	Carto	ONEWAYDIR					
tertiary_link	roundabout				TC Minor Arterial	17						
track					4WD	19						
trunk					Freeway	1						
trunk	roundabout				TC Freeway	14						
trunk_link					Ramp	8						
trunk_link	roundabout				TC Freeway	14						
unclassified					Unknown	24						
unknown					Unknown	24						
unsurfaced					4WD	19						
		ferry			Ferry	13						
			ferry_way		Ferry	13						
				true			From-To					
				yes			From-To					

OSM Polygon Field	SiteAmenityLine	
barrier	AMENTYPE	Carto
city_wall	Retaining Wall	305
fence	Aluminum Perimeter Fence	300
gate	Gate	304
lift_gate	Gate	304
retaining_wall	Retaining Wall	305
wall	Retaining Wall	305
wire_fence	Chain Link Fence	302
wood_fence	Wooden Privacy Fence	309
OSM Polygon Field	Trail	
highway	Carto	
path	200	
cycleway	200	
bridleway	200	
OSM Polygon Field	Waterline	
waterway	WTRTYPE	Carto
canal	Canal or Ditch	101
dam	Dam or Weir	103
ditch	Canal or Ditch	101
drain	Canal or Ditch	101
dryriver	Stream or River-Intermittent	107
	Stream or River	106
river		
	Stream or River	106
river stream wadi	Stream or River Stream or River-Intermittent	106 107

						USIV	1 Polygon Fields								FacilitySitePoir			
m_name	geological waterway	highway	aerialway	aeroway	railway	shop	military power	man-made	leisure	historic	amenity	landuse	tourism	building	FEATURECODE	SUBTYPEFIELD	OWNTYP	
T NULL I															Public Attraction or Landmark Building	820		15
T NULL	 NOT NULL							-		-					Public Attraction or Landmark Building	820		15
T NULL	 NOT NULL														Public Attraction or Landmark Building	820		15
T NULL		NOT NULL	NOTALLI												Transportation Facility	810		11
T NULL			NOT NULL	NOTALLI											Transportation Facility	810	-	11
T NULL T NULL				NOT NULL	NOTALLI										Transportation Facility	810 810		11
T NULL					NOT NULL	NOT NULL									Transportation Facility	720		11
T NULL						NOT NULL	NOT NULL								Commercial or Retail Facility DoD / Military Facility	830	-	24
T NULL							NOT NULL								Industrial Facility	710		24
T NULL							NOT NULL	NOT NULL							Industrial Facility	710		2
T NULL								NOT NOLL	common			-			Park	820	Regional	20
T NULL								-	dog_park	-					Park	820	Regional	20
T NULL									garden						Park	820	Regional	20
T NULL								-	golf_course	-					Golf Course	820	періопа	18
T NULL									ice rink						Ice Arena	820		15
T NULL									marina						Marina	820		15
T NULL								-	nature_reserve	-					Park	820	Regional	20
T NULL									park						Park	820	Regional	20
T NULL			l						playground			ļ			Arboretum / Botanical Garden	820	T	15
T NULL									recreation_ground						Park	820	Regional	20
T NULL									sports_centre						Sports Arena / Stadium	820	-	15
T NULL									stadium						Sports Arena / Stadium	820		15
T NULL									swimming_pool						Public Pool	820		15
T NULL									track						Racetrack / Dragstrip	820		15
T NULL									water_park						Amusement / Water Park	820		15
T NULL										memorial					National Symbol / Monument	820		15
T NULL									.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	monument	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				National Symbol / Monument	820		15
T NULL											arts_centre				Auditorium / Concert Hall / Theater / Opera House	820		15
T NULL											baby_hatch				Health or Medical Facility	800		10
T NULL											bar				Restaurant / Eating Establishment	720		3
T NULL											bicycle_parking				Transportation Facility	810		11
T NULL											bicycle_rental				Commercial or Retail Facility	720		3
T NULL											biergarten				Restaurant / Eating Establishment	720		3
T NULL											brothel				Commercial or Retail Facility	720		3
T NULL											bus_station	-			Bus Station / Dispatch Facility	810	-	11
T NULL											café				Restaurant / Eating Establishment	720		3
T NULL T NULL											car_rental				Commercial or Retail Facility Park and Ride / Commuter Lot	720 810		3
T NULL								-		-	car_sharing car_wash				Commercial or Retail Facility	720	-	3
T NULL											cinema				Auditorium / Concert Hall / Theater / Opera House	820		15
T NULL											college	-			College / University	730	-	4
T NULL											courthouse				Court House	830		23
T NULL											dentist	-			Health or Medical Facility	800		10
T NULL											doctors				Health or Medical Facility	800		10
T NULL											embassy				Government or Military Facility	830		23
T NULL								-			fast_food	-			Restaurant / Eating Establishment	720	+	3
T NULL											ferry_terminal				Ferry Terminal / Dispatch Facility	810		11
T NULL	 										fire station				Fire Station / EMS Station	740	·	5
T NULL					***************************************						food_court				Restaurant / Eating Establishment	720	·	3
T NULL											fountain				Historic Site / Point of Interest	820	1	15
T NULL			·								fuel	<u> </u>			Gas Station	720		3
T NULL											hospital				Hospital / Medical Center	800		10
T NULL											kindergarten				School	730		4
T NULL											library				Library	820		15
T NULL											marketplace				Shopping Mall / Complex	720		3
T NULL											nightclub				Restaurant / Eating Establishment	720		3
T NULL											pharmacy				Pharmacy	800		10
T NULL											place_of_worship				House of Worship	820		15
T NULL											police				Law Enforcement	740		5
T NULL											post_office				Post Office	780		8
T NULL											prison				Prison / Correctional Facility	740		5
T NULL											pub				Restaurant / Eating Establishment	720		3
T NULL											public_building				Government or Military Facility	830		23
T NULL											restaurant	-			Restaurant / Eating Establishment	720		3
T NULL			-							-	school				School	730		4
T NULL											swimming_pool				Public Pool	820		15
T NULL											taxi				Transportation Facility	810		11
T NULL			-								theatre				Auditorium / Concert Hall / Theater / Opera House	820		15
T NULL											townhall				Municipal Government Facility	830		23
T NULL											university				College / University	730		4
			-															_
	 											ļ						
						OSM	1 Polygon Fields								FacilitySitePoin	ıt		

osm_name	barrier	geological	waterway h	highway	aerialway	aeroway	railway	shop	military	power	man-made	leisure	historic	amenity	landuse tourism	building	FEATURECODE	SUBTYPEFIELD	OWNTYP	E Carto
NOT NULL														veterinary			Veterinary Hospital / Clinic	701		1
NOT NULL															cemetery		Cemetery	820		17
NOT NULL															commercial		Commercial or Retail Facility	720		3
NOT NULL															conservation		Park	820	Federal	21
NOT NULL															conservation		Park	820	Regional	20
NOT NULL															farm		Farm / Ranch	701		1
NOT NULL															farmland		Farm / Ranch	701		1
NOT NULL															farmyard		Farm / Ranch	701		1
NOT NULL															fishfarm		Fish Farm / Hatchery	701		1
NOT NULL															forest		Park	820	Federal	21
NOT NULL															forest		Park	820	Regional	20
NOT NULL															garages		Parking Lot Structure / Garage	810		11
NOT NULL															greenhouse_hortic		Greenhouse / Nursery	701		1
NOT NULL													-		harbour		Harbor / Marina	810		11
NOT NULL															industrial		Industrial Facility	710		2
NOT NULL															landfill		Landfill	710		2
NOT NULL															market		Grocery Store	720		3
NOT NULL									-		-		-	+	meadow		Openspace Openspace	820		19
NOT NULL									-					-	military		DoD / Military Facility	830		24
NOT NULL											-		-	-	pier		Pier / Wharf / Quay / Mole	810		11
NOT NULL																		710		2
						-					_				quarry		Industrial Facility			
NOT NULL															railway		Railroad Facility	810		11
NOT NULL															recreation_ground		Park	820	Regional	20
NOT NULL															retail		Commercial or Retail Facility	720		3
NOT NULL															alpine_h		Public Attraction or Landmark Building	820		15
NOT NULL															artwork		Historic Site / Point of Interest	820		15
NOT NULL															attraction		Public Attraction or Landmark Building	820		15
NOT NULL															camp_sit		Campground	820		15
NOT NULL															caravan_		Campground	820		15
NOT NULL															chalet		Hotel / Motel	720		3
NOT NULL															guest_ho	use	Hotel / Motel	720		3
NOT NULL															hostel		Hotel / Motel	720		3
NOT NULL															hotel		Hotel / Motel	720		3
NOT NULL															informat	ion	Visitor / Information Center	820		15
NOT NULL															motel		Hotel / Motel	720		3
NOT NULL															museum		Museum	820		15
NOT NULL															picnic_sit		Picnic Area	820		15
NOT NULL															theme p		Amusement / Water Park	820		15
NOT NULL															yes		Public Attraction or Landmark Building	820		15
NOT NULL															Z00		Z00	820		15
																	Commercial or Retail Facility	720		3
																	Historic Site / Point of Interest	820		15
														-			House of Worship	820		15
						-					-		_	-			Municipal Government Facility	830		23
									-								Industrial Facility	710		23
						-			-		-		-	-			Auditorium / Concert Hall / Theater / Opera House	820		15
						-					-		-	-				820 820	1	15
														-			House of Worship			
						-					-			-			National Symbol / Monument	820	-	15
																	Historic Site / Point of Interest	820	ļ	15
																	Sports Arena / Stadium	820	ļ	15
																	Sports Arena / Stadium	820		15
						Ļ				ļ							Commercial or Retail Facility	720		3
																	Transportation Facility	810		11
																warehous	Industrial Facility	710		2
																church	House of Worship	820		15
																hangar	Transportation Facility	810		11
																industrial	Industrial Facility	710		2

	OSM Poly	gon Fields			PopulatedPlace						
place	osm_admin_level	osm_capital	osm_population	ТҮРЕ	TYPE_NUM	PCLASS					
city	2	yes		Country Capital	1						
city	4	yes		Order1 Capital	2						
city	6	yes		Order2 Capital	3						
city	8	yes		Order3 Capital	4						
city				PopulatedPlace	5						
hamlet											
isolated_dwelling											
locality											
neighbourhood											
suburb											
town											
village											
			0			0					
			1 to 2499			1					
			2400 to 9999			2					
			10000 to 29999			3					
			30000 to 99999			4					
			100000 to 299999			5					
			300000 to 999999			6					
			1000000 and up			7					
OSNA	Daharan Fielda	Tree									
USIVI	Polygon Fields	rree									
natural	osm_name	Carto									
tree	Elm	1									
tree	Eucalyptus	2									
tree	Maple	3									
tree	Oak	4									
tree	Orange	8									
tree	Palm	5									
tree	Pine	6									
tree	Spruce	7									

		OSM Polygon Fields If building IS NULL then use these other fields											FacilitySite					
building	boundary	leisure	historic	railway	aerialway		IS NULL the shop	n use these military		amenity	landuse	tourism	natural	FCODE	IRTVDEELE	L OWNTYPE	Carto	
IS NULL		common	IIISTOTIC	lanway	acriaiway	acroway	зпор		power	amemicy	landuse	tourism	liaturai	Park	820	Regional	20	
IS NULL		dog_park												Park	820	Regional	20	
IS NULL		fishing												Public Attraction or Landmark Building	820		15	
IS NULL		garden												Arboretum / Botanical Garden	820		15	
IS NULL		golf_course	2											Golf Course	820		18	
IS NULL		ice_rink												Ice Arena	820		15	
IS NULL		marina												Marina	820		15	
IS NULL		miniature_	golf											Public Attraction or Landmark Building	820		15	
IS NULL	national_park	nature_res												Park	820	Federal	21	
IS NULL		nature_res	erve											Park	820	Regional	20	
IS NULL	national_park	park												Park	820	Federal	21	
IS NULL		park												Park	820	Regional	20	
IS NULL		playground												Park	820	Regional	20	
IS NULL		recreation_	-											Park	820	Regional	20	
IS NULL		sports_cen	tre											Sports Arena / Stadium	820		15	
IS NULL		stadium												Sports Arena / Stadium	820		15	
IS NULL		swimming_												Public Pool	820		15	
IS NULL		water_park												Amusement / Water Park	820		15	
IS NULL			castle											Historic Site / Point of Interest	820 820		15	
IS NULL			archaeolog battlefield											Historic Site / Point of Interest	820		15 15	
IS NULL IS NULL			memorial											Historic Site / Point of Interest National Symbol / Monument	820		15	
IS NULL			monument											National Symbol / Monument	820		15	
IS NULL			ruins											Historic Site / Point of Interest	820		15	
IS NULL			wayside_cr	rnee										Historic Site / Point of Interest	820		15	
IS NULL			wayside_ci wayside_sh											Historic Site / Point of Interest	820		15	
IS NULL			wreck	ITTIC										Historic Site / Point of Interest	820		15	
IS NULL			yes											Historic Site / Point of Interest	820		15	
IS NULL			, 00	station										Railroad Station	810		11	
IS NULL				turntable										Railroad Roundhouse / Turntable	810		11	
IS NULL				platform										Railroad Facility	810		11	
IS NULL					station									Railroad Station	810		11	
IS NULL						runway								Airport Runway / Airfield	810		12	
IS NULL						apron								Airport Runway / Airfield	810		12	
IS NULL						terminal								Airport Terminal	810		13	
IS NULL						aerodrome								Airport Terminal	810		13	
IS NULL						taxiway								Airport Runway / Airfield	810		12	
IS NULL						helipad								Helipad / Heliport / Helispot	810		11	
IS NULL							NOT NULL							Commercial or Retail Facility	720		3	
IS NULL								NOT NULL						DoD / Military Facility	830		24	
												-			1			
																	1	
	1																	

	OSM Polygon Fields If building IS NULL then use these other fields												FacilitySite						
									-										
building S NULL	boundary	leisure	historic	railway	aerialway	aeroway	shop	military	power NOT NULL	amenity	landuse	tourism	natural	FCODE Industrial Facility	JBTYPEFIEL 710	OWNTYPE	Carto		
S NULL									NOT NOLL	arts centre				Auditorium / Concert Hall / Theater / Opera			15		
S NULL										baby hatch				Health or Medical Facility	800		10		
S NULL										baby_nater	I			Restaurant / Eating Establishment	720		3		
S NULL										bicycle_par	king			Transportation Facility	810		11		
S NULL										bicycle_ren				Commercial or Retail Facility	720		3		
S NULL										biergarten	tui			Restaurant / Eating Establishment	720		3		
S NULL										brothel				Commercial or Retail Facility	720		3		
S NULL										bus station				Bus Station / Dispatch Facility	810		11		
S NULL										café	,			Restaurant / Eating Establishment	720		3		
S NULL										car rental				Commercial or Retail Facility	720		3		
S NULL										car sharing				Park and Ride / Commuter Lot	810		11		
S NULL										car wash				Commercial or Retail Facility	720		3		
S NULL										cinema				Auditorium / Concert Hall / Theater / Opera			15		
S NULL										college				College / University	730		4		
S NULL										courthouse				Court House	830		23		
S NULL										dentist				Health or Medical Facility	800		10		
S NULL										doctors				Health or Medical Facility	800		10		
S NULL										embassy				Government or Military Facility	830		23		
S NULL										fast food				Restaurant / Eating Establishment	720		3		
S NULL										ferry_termi	nal			Ferry Terminal / Dispatch Facility	810		11		
S NULL										fire_station				Fire Station / EMS Station	740		5		
S NULL										food court				Restaurant / Eating Establishment	720		3		
S NULL										fountain				Historic Site / Point of Interest	820		15		
S NULL										fuel				Gas Station	720		3		
S NULL										hospital				Hospital / Medical Center	800		10		
S NULL										kindergarte	n			School	730		4		
S NULL										library				Library	820		15		
S NULL										marketplac	ρ.			Shopping Mall / Complex	720		3		
S NULL										nightclub	_			Restaurant / Eating Establishment	720		3		
S NULL										pharmacy				Pharmacy	800		10		
S NULL										place_of_w	orship			House of Worship	820		15		
S NULL										police				Law Enforcement	740		5		
S NULL										post_office				Post Office	780		8		
S NULL										prison				Prison / Correctional Facility	740		5		
S NULL										pub				Restaurant / Eating Establishment	720		3		
S NULL										public_buile	ding			Government or Military Facility	830		23		
S NULL										restaurant	В			Restaurant / Eating Establishment	720		3		
S NULL										school				School	730		4		
S NULL										swimming	pool			Public Pool	820		15		
S NULL										taxi	r 30.			Transportation Facility	810		11		
S NULL										theatre				Auditorium / Concert Hall / Theater / Opera			15		
S NULL										townhall				Municipal Government Facility	830		23		
S NULL										university				College / University	730		4		
S NULL										veterinary				Veterinary Hospital / Clinic	701		1		
										. sec. mary					. 51				
																	-		
		1																	
			 	 				 				 	 						
+			-	-	1			-				-	-						

OSM Polygon Fields FacilitySite												ite					
If building IS NULL then use these other fields																	
building	boundary	leisure	historic	railway	aerialway	aeroway	shop	military	power	amenity	landuse	tourism	natural	FCODE	JBTYPEFII	EL OWNTYPE	Carto
S NULL											cemetery			Cemetery	820		17
S NULL											commercial			Commercial or Retail Facility	720		3
S NULL	national_park										conservatio	n		Park	820	Federal	21
IS NULL											conservatio	n		Park	820	Regional	20
IS NULL											farm			Farm / Ranch	701		1
S NULL											farmland			Farm / Ranch	701		1
IS NULL											farmyard			Farm / Ranch	701		1
IS NULL											fishfarm			Fish Farm / Hatchery	701		1
IS NULL	national_park										forest			Park	820	Federal	21
IS NULL											forest			Park	820	Regional	20
IS NULL											garages			Parking Lot Structure / Garage	810		11
IS NULL											greenhouse	_horticultu	ire	Greenhouse / Nursery	701		1
IS NULL											harbour			Harbor / Marina	810		11
IS NULL											industrial			Industrial Facility	710		2
IS NULL											landfill			Landfill	710		2
IS NULL											market			Grocery Store	720		3
IS NULL											meadow			Openspace	820		19
IS NULL											military			DoD / Military Facility	830		24
IS NULL											pier			Pier / Wharf / Quay / Mole	810		11
IS NULL											quarry			Industrial Facility	710		2
IS NULL											railway			Railroad Facility	810		11
IS NULL											recreation_	ground		Park	820	Regional	20
IS NULL											retail			Commercial or Retail Facility	720		3
IS NULL												alpine_hut		Public Attraction or Landmark Building	820		15
IS NULL												artwork		Historic Site / Point of Interest	820		15
IS NULL												attraction		Public Attraction or Landmark Building	820		15
IS NULL												camp_site		Campground	820		15
IS NULL												caravan_si	:e	Campground	820		15
IS NULL												chalet		Hotel / Motel	720		3
IS NULL												guest_hous	se	Hotel / Motel	720		3
IS NULL												hostel		Hotel / Motel	720		3
IS NULL												hotel		Hotel / Motel	720		3
IS NULL												informatio	ı	Visitor / Information Center	820		15
IS NULL												motel		Hotel / Motel	720		3
IS NULL												museum		Museum	820		15
IS NULL												picnic_site		Picnic Area	820		15
IS NULL												theme_par	k	Amusement / Water Park	820		15
IS NULL												yes		Public Attraction or Landmark Building	820		15
IS NULL												Z00		Zoo	820		15
IS NULL													grassland	Openspace	820		19
IS NULL													heath	Openspace	820		19
IS NULL													scrub	Openspace	820		19
IS NULL													wood	Openspace	820		19
													500	- pp0	520	+	

OSI	M Polygon Field	s	CountyBoundary				
			011D=1/D55151D				
boundary	admin_level	place	SUBTYPEFIELD				
administrative	6	county	2				
OSI	M Polygon Field	S	Landsc	apeArea			
natural	landuse	leisure	SURFTYPE	FACILTIYID	Carto		-
beach			Sand	17101211112	208		-
beach	brownfield		Dirt		200		-
	grass		Grass		201		-
	8. 3.33	pitch	Sports Turf	Soccer	209		
		track	Dirt	Track	200		
OSI	M Polygon Field	s	MunicipalBoundary				
		_					
boundary	admin_level	place	SUBTYPEFIELD				
administrative	8	city	3				
administrative	8	hamlet	3				
administrative	8	suburb	3				
administrative	8	town	3				
administrative	8	village	3				

	StateBoundary		
boundary	admin_level	place	SUBTYPEFIELD
administrative	4	state	1
OSM Polygon Field	Stree	etPavement	
amenity	SURFUSE	Carto	
parking	Parking Lot	308	
<u> </u>	3 3		
OSM Polygo	on Fields	1	Waterbody
natural	waterway	WTRTYPE	Carto
bay		Bay or Inlet	100
marsh		Swamp or Marsh	114
mud		Swamp or Marsh	114
salt_pan		Playa	109
sand		Playa	109
water		Lake or Pond	106
wetland		Swamp or Marsh	114
	dam	Dam or Weir	102
	riverbank	Stream or River	112
			<u> </u>

					OSM Polygo	on Fields						BuildingFootprint	
				If buildin			es' then use th	hese other fields				,	
building	railway	aerialway	leisure	shop	historic	aeroway	military	amenity	landuse	tourism	BUILDINGCLASS	FEATURECODE	
yes											1	Building General	
	NOT NULL										5	Transportation Facility	
NOT NULL AND <> 'yes'		NOT NULL									5	Transportation Facility	
NOT NULL AND <> 'yes'			NOT NULL								8	Public Attraction or Landmark Building	
NOT NULL AND <> 'yes'				NOT NULL							6	Commercial or Retail Facility	
NOT NULL AND <> 'yes'					NOT NULL						9	Public Attraction or Landmark Building	
NOT NULL AND <> 'yes'						NOT NULL					11	Airport Terminal	
NOT NULL AND <> 'yes'							NOT NULL				2	Government or Military Facility	
NOT NULL AND <> 'yes'								architect_office			1	Building General	
NOT NULL AND <> 'yes'								arts_centre			9	Public Attraction or Landmark Building	
NOT NULL AND <> 'yes'								baby_hatch			3	Health or Medical Facility	
NOT NULL AND <> 'yes'								bank			1	Building General	
NOT NULL AND <> 'yes'								bar			6	Commercial or Retail Facility	
NOT NULL AND <> 'yes'								bicycle_parking			5	Transportation Facility	
NOT NULL AND -: 'yes'								bicycle_rental			6	Commercial or Retail Facility	
NOT NULL AND <> 'yes'								biergarten			6	Commercial or Retail Facility	
NOT NULL AND <> 'yes'		1	-			+		brothel bus station		 	U E	Commercial or Retail Facility	
NOT NULL AND <> 'yes'		1	-			+		bus_station		 	6	Transportation Facility	
NOT NULL AND <> 'yes'		1	-			-		cafe			6	Commercial or Retail Facility	
NOT NULL AND <> 'yes' NOT NULL AND <> 'yes'		1	1			+		car_rental		1	5	Commercial or Retail Facility Transportation Facility	
NOT NULL AND <> 'yes'								car_sharing			5	Transportation Facility	
· · · · · · · · · · · · · · · · · · ·								car_wash			1	Commercial or Retail Facility	
NOT NULL AND <> 'yes'								cemetery			1	Building General	
NOT NULL AND <> 'yes'								cinema			9	Public Attraction or Landmark Building	
NOT NULL AND <> 'yes'								college			3	Education Facility	
NOT NULL AND <> 'yes'								courthouse			2	Government or Military Facility	
NOT NULL AND <> 'yes'								crematorium			1	Building General	
NOT NULL AND <> 'yes'													
								dentist			3	Health or Medical Facility	
NOT NULL AND <> 'yes'								doctors			3	Health or Medical Facility	
NOT NULL AND <> 'yes' NOT NULL AND <> 'yes'								doctors embassy			3 2	Health or Medical Facility Government or Military Facility	
NOT NULL AND <> 'yes'					OSM Polygg	on Fields		doctors			3 2 6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility	
NOT NULL AND <> 'yes' NOT NULL AND <> 'yes'				If buildin	OSM Polygo		es' then use th	doctors embassy fast_food			3 2 6	Health or Medical Facility Government or Military Facility	
NOT NULL AND <> 'yes' NOT NULL AND <> 'yes'	railway	aerialway	leisure	If buildin		on Fields ND building <> 'y aeroway	es' then use th military	doctors embassy fast_food	landuse	tourism	3 2 6 BUILDINGCLASS	Health or Medical Facility Government or Military Facility Commercial or Retail Facility	
NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields	landuse	tourism	6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity	landuse	tourism	6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE	
NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' building NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal	landuse	tourism	6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE Transportation Facility	
NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' building NOT NULL AND <> 'yes' NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station	landuse	tourism	6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility	
NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' building NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court	landuse	tourism	6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Commercial or Retail Facility	
NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' building NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain	landuse	tourism	6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital	landuse	tourism	6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand	landuse	tourism	6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General	
NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten	landuse	tourism	6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility	
NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library	landuse	tourism	6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Government or Military Facility	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library marketplace	landuse	tourism	6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Government or Military Facility Commercial or Retail Facility	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library marketplace nightclub	landuse	tourism	BUILDINGCLASS 5 2 6 9 1 1 3 1 4 2 6 6 6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Government or Military Facility Commercial or Retail Facility Commercial or Retail Facility	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library marketplace nightclub parking	landuse	tourism	6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Government or Military Facility Commercial or Retail Facility Commercial or Retail Facility Transportation Facility	
NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes' NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library marketplace nightclub parking pharmacy	landuse	tourism	BUILDINGCLASS 5 2 6 9 1 1 3 1 4 2 6 6 6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Government or Military Facility Commercial or Retail Facility Commercial or Retail Facility Tommercial or Retail Facility Transportation Facility Health or Medical Facility	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library marketplace nightclub parking pharmacy place_of_worship	landuse	tourism	BUILDINGCLASS 5 2 6 9 1 1 3 1 4 2 6 6 6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Government or Military Facility Commercial or Retail Facility Transportation Facility Transportation Facility Health or Medical Facility	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library marketplace nightclub parking pharmacy polace_of_worship police	landuse	tourism	BUILDINGCLASS 5 2 6 9 1 1 3 1 4 2 6 6 6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Government or Military Facility Commercial or Retail Facility Commercial or Retail Facility Health or Medical Facility Commercial or Retail Facility Transportation Facility Health or Medical Facility Health or Medical Facility Health or Medical Facility House of Worship Government or Military Facility	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library marketplace nightclub parking pharmacy place_of_worship police post_office	landuse	tourism	BUILDINGCLASS 5 2 6 9 1 1 3 1 4 2 6 6 6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Government or Military Facility Commercial or Retail Facility Transportation Facility Health or Medical Facility Transportation Facility Health or Medical Facility Government or Military Facility Government or Military Facility Government or Military Facility	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library marketplace nightclub parking pharmacy place_of_worship poist_office prison	landuse	tourism	BUILDINGCLASS 5 2 6 9 1 1 3 1 4 2 6 6 6	Health or Medical Facility Government or Military Facility Commercial or Retail Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Government or Military Facility Commercial or Retail Facility Transportation Facility Transportation Facility Health or Medical Facility House of Worship Government or Military Facility Government or Military Facility Government or Military Facility	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library marketplace nightclub parking pharmacy place_of_worship police post_office prison pub	landuse	tourism	BUILDINGCLASS 5 2 6 9 1 1 3 1 4 2 6 6 6	Health or Medical Facility Government or Military Facility Emiliary BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Government or Military Facility Commercial or Retail Facility Transportation Facility Health or Medical Facility Commercial or Retail Facility Transportation Facility Health or Medical Facility House of Worship Government or Military Facility Commercial or Retail Facility	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library marketplace nightclub parking pharmacy place_of_worship police post_office prison pub public_building	landuse	tourism	BUILDINGCLASS 5 2 6 9 1 1 3 1 4 2 6 6 6	Health or Medical Facility Government or Military Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Commercial or Retail Facility Commercial or Retail Facility Transportation Facility Commercial or Retail Facility Transportation Facility Health or Medical Facility Health or Medical Facility Government or Military Facility Commercial or Retail Facility Government or Military Facility	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library marketplace nightclub parking pharmacy place_of_worship police post_office prison pub public_building recycling	landuse	tourism	BUILDINGCLASS 5 2 6 9 1 1 3 1 4 2 6 6 6	Health or Medical Facility Government or Military Facility Emiliary BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Government or Military Facility Commercial or Retail Facility Health or Medical Facility Government or Military Facility Commercial or Retail Facility Transportation Facility Health or Medical Facility Health or Medical Facility Government or Military Facility Commercial or Retail Facility Government or Military Facility Government or Military Facility Commercial or Retail Facility Government or Military Facility	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library marketplace nightclub parking pharmacy place_of_worship police post_office prison pub public_building	landuse	tourism	BUILDINGCLASS 5 2 6 9 1 1 3 1 4 2 6 6 6	Health or Medical Facility Government or Military Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Government or Military Facility Commercial or Retail Facility Transportation Facility Health or Medical Facility Commercial or Retail Facility Commercial or Retail Facility Transportation Facility Health or Medical Facility Government or Military Facility Building General Commercial or Retail Facility	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library marketplace nightclub parking pharmacy place_of_worship police post_office prison pub public_building recycling restaurant sauna	landuse	tourism	BUILDINGCLASS 5 2 6 9 1 1 3 1 4 2 6 6 6	Health or Medical Facility Government or Military Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Commercial or Retail Facility Commercial or Retail Facility Transportation Facility Transportation Facility Health or Medical Facility Transportation Facility Government or Military Facility House of Worship Government or Military Facility Commercial or Retail Facility Government or Military Facility Commercial or Retail Facility Building General Commercial or Retail Facility Building General	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library marketplace nightclub parking pharmacy place_of_worship police post_office prison pub public_building recycling restaurant sauna school	landuse	tourism	BUILDINGCLASS 5 2 6 9 1 1 3 1 4 2 6 6 6	Health or Medical Facility Government or Military Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Commercial or Retail Facility Commercial or Retail Facility Transportation Facility Commercial or Retail Facility Transportation Facility Health or Medical Facility House of Worship Government or Military Facility Commercial or Retail Facility Government or Military Facility Building General Commercial or Retail Facility Building General Education Facility	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library marketplace nightclub parking pharmacy place_of_worship police post_office prison pub public_building recycling restaurant sauna	landuse	tourism	BUILDINGCLASS 5 2 6 9 1 1 3 1 4 2 6 6 6	Health or Medical Facility Government or Military Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Commercial or Retail Facility Commercial or Retail Facility Transportation Facility Transportation Facility Health or Medical Facility Transportation Facility Government or Military Facility House of Worship Government or Military Facility Commercial or Retail Facility Government or Military Facility Commercial or Retail Facility Building General Commercial or Retail Facility Building General	
NOT NULL AND <> 'yes'	railway	aerialway	leisure		g NOT NULL AI	ND building <> 'y		doctors embassy fast_food ese other fields amenity ferry_terminal fire_station food_court fountain fuel grave_yard hospital hunting_stand kindergarten library marketplace nightclub parking pharmacy place_of_worship police post_office prison pub public_building recycling restaurant sauna school	landuse	tourism	BUILDINGCLASS 5 2 6 9 1 1 3 1 4 2 6 6 6	Health or Medical Facility Government or Military Facility BuildingFootprint FEATURECODE Transportation Facility Government or Military Facility Government or Military Facility Commercial or Retail Facility Public Attraction or Landmark Building Commercial or Retail Facility Building General Health or Medical Facility Building General Education Facility Commercial or Retail Facility Commercial or Retail Facility Transportation Facility Commercial or Retail Facility Transportation Facility Health or Medical Facility House of Worship Government or Military Facility Commercial or Retail Facility Government or Military Facility Building General Commercial or Retail Facility Building General Education Facility	

		1		1		1	1			1		
NOT NULL AND <> 'yes'								taxi			5	Transportation Facility
NOT NULL AND <> 'yes'								theatre			9	Public Attraction or Landmark Building
NOT NULL AND <> 'yes'								townhall			2	Government or Military Facility
NOT NULL AND <> 'yes'								university			4	Education Facility
					OSM Polygo							BuildingFootprint
				-				ese other fields				
building	railway	aerialway	leisure	shop	historic	aeroway	military	amenity	landuse	tourism	BUILDINGCLASS	FEATURECODE
NOT NULL AND <> 'yes'								veterinary			6	Commercial or Retail Facility
NOT NULL AND <> 'yes'									commercial		6	Commercial or Retail Facility
NOT NULL AND <> 'yes'									garages		5	Transportation Facility
NOT NULL AND <> 'yes'									industrial		12	Industrial Facility
NOT NULL AND <> 'yes'									landfill		12	Industrial Facility
NOT NULL AND <> 'yes'									market		6	Commercial or Retail Facility
NOT NULL AND <> 'yes'									military		2	Government or Military Facility
NOT NULL AND <> 'yes'									railway		5	Transportation Facility
NOT NULL AND <> 'yes'									recreation_ground		8	Public Attraction or Landmark Building
NOT NULL AND <> 'yes'									retail		6	Commercial or Retail Facility
NOT NULL AND <> 'yes'										alpine_hut	8	Public Attraction or Landmark Building
NOT NULL AND <> 'yes'										artwork	9	Public Attraction or Landmark Building
NOT NULL AND <> 'yes'										attraction	8	Public Attraction or Landmark Building
NOT NULL AND <> 'yes'										camp_site	8	Public Attraction or Landmark Building
NOT NULL AND <> 'yes'										caravan_site	8	Public Attraction or Landmark Building
NOT NULL AND <> 'yes'										chalet	10	Hotel / Motel
NOT NULL AND <> 'yes'										guest_house	10	Hotel / Motel
NOT NULL AND <> 'yes'										hostel	10	Hotel / Motel
NOT NULL AND <> 'yes'										hotel	10	Hotel / Motel
NOT NULL AND <> 'yes'										information	8	Public Attraction or Landmark Building
NOT NULL AND <> 'yes'										motel	10	Hotel / Motel
NOT NULL AND <> 'yes'										museum	9	Public Attraction or Landmark Building
NOT NULL AND <> 'yes'										picnic_site	8	Public Attraction or Landmark Building
NOT NULL AND <> 'yes'										theme_park	8	Public Attraction or Landmark Building
NOT NULL AND <> 'yes'										yes	8	Public Attraction or Landmark Building
NOT NULL AND <> 'yes'										z00	8	Public Attraction or Landmark Building