

## Confusion Matrix

ground truth	Low Veg. (0) 8,946,301 / 15.7%	86.4%	3.9%	0.0% 4,346	1.5%	0.2% 19,313	0.5% 40,725	3.5%	1.0% 93,286	1.3%	1.7%	0.0% 0	0.0% 0	86.4%
	Imp. Surface (1) 4,821,686 / 8.4%	6.2%	88.4%	0.4% 17,581	1.1% 54,545	0.2% 8,642	1.3% 63,061	0.3% 16,432	0.1% 3,922	0.5% 25,937	1.5% 73,164	0.0% 4	0.0% 0	88.4%
	Vehicle (2) 297,546 / 0.5%	0.4% 1,047	0.8% 2,246	77.2%	13.2% 39,183	3.9% 11,562	1.2% 3,667	2.5% 7,577	0.7% 2,079	0.1% 186	0.3% 317	0.0% 0	0.0% 0	77.2%
	Urban Furn. (3) 1,242,781 / 2.2%	2.2% 27,702	2.2% 27,507	4.2% 52,064	59.4%	2.5% 31,305	8.4%	15.7%	3.1% 39,074	0.0% 312	2.2% 26,768	0.0% 74	0.0% 0	59.4%
	Roof (4) 3,287,560 / 5.8%	1.4% 47,019	2.6% 83,978	0.6% 20,149	1.4% 46,638	85.1%	1.2% 40,626	0.5% 17,843	5.2%	1.2% 39,314	0.3% 10,759	0.4% 14,162	0.0% 0	85.1%
	Facade (5) 1,868,357 / 3.3%	0.4% 7,461	0.7% 12,331	0.92% 5,922	2.1% 39,090	2.6% 48,820	88.3%	1.1% 19,808	1.8% 34,347	0.5% 153	2.6% 47,844	0.2% 3,199	0.0% 0	88.3%
	Shrub (6) 973,869 / 1.7%	2.9% 28,574	0.2% 1,766	0.0% 139	4.5% 43,736	2.6% 3,512	2.0% 19,061	76.3%	9.9% 96,026	0.0% 116	3.9% 38,218	0.0% 4	0.0% 0	76.3%
	Tree (7) 7,685,786 / 13.5%	0.5% 38,776	0.0% 167	0.0% 278	0.2% 12,384	0.2% 17,796	0.4% 30,641	5.1%	92.9%	0.0% 611	0.6% 46,147	0.0% 3,386	0.0% 0	92.9%
	Soil / Gravel (8) 3,752,196 / 6.6%	10.3%	4.4%	0.04% 3,015	0.2% 9,338	0.1% 4,635	7.37%	0.1% 5,121	0.1% 3,017	84.5%	0.1% 2,198	0.0% 1	0.0% 0	84.5%
	Vertical (9) 1,624,561 / 2.8%	0.7% 11,963	0.7% 10,728	0.0% 173	0.6% 9,173	0.1% 1,032	2.0% 31,815	5.1% 83,403	1.5% 24,831	0.0% 263	89.3%	0.0% 0	0.0% 0	89.3%
	Chimney (10) 27,392 / 0.0%	0.0% 0	0.0% 0	0.1% 18	0.1% 17	1.7% 456	3.3% 907	0.0% 13	0.7% 192	0.0% 0	0.0% 0	94.1% 25,789	0.0% 0	94.1% 25,789
	Ignore* (11) 22,552,276 / 39.5%	28.9%	4.6%	0.5%	3.1%	10.7%	11.3%	8.4%	23.6%	1.3%	7.4%	0.2% 39,800	0.0% 0	0.0% 0
precision	90.1%	86.7%	68.9%	65.6%	95.0%	83.1%	41.5%	93.9%	94.5%	78.5%	55.3% 25,789	nan% 0	86.7%	
F1 μ=79.6%	88.2%	87.5%	72.8%	62.4%	89.8%	85.6%	53.7%	93.4%	89.2%	83.5%	69.7%	nan%		
	Low Veg (0) 8,573,002 / 15.0%	Imp. Surface (1) 4,916,609 / 8.6%	Vehicle (2) 333,377 / 0.6%	Urban Furn. (3) 1,225,331 / 2.0%	Roof (4) 2,943,904 / 5.2%	Facade (5) 1,984,990 / 3.5%	Shrub (6) 1,790,898 / 3.1%	Tree (7) 7,608,604 / 13.3%	Soil / Gravel (8) 3,354,266 / 5.9%	Vertical (9) 1,849,753 / 3.2%	Chimney (10) 46,619 / 0.1%	Ignore (11) 0 / 0.0%	recall	
	precision	recall	F1	precision	recall	F1	precision	recall	F1	precision	recall	F1		

prediction