

Confusion Matrix

ground truth

Low Veg. (0) 910,596 / 11.2%	42.9%	43.1%	0.1% 486	5.0% 45,385	0.4% 3,476	0.3% 2,507	0.9% 8,418	0.1% 942	6.6% 59,748	0.7% 6,701	0.0% 0	0.0% 0	42.9%	
Imp. Surface (1) 833,163 / 10.3%	30.0%	58.8%	0.3% 2,863	4.0% 33,566	1.1% 9,261	0.7% 5,430	0.5% 4,163	0.3% 2,521	2.3% 19,546	1.9% 15,612	0.0% 7	0.0% 0	58.8%	
Vehicle (2) 96,807 / 1.2%	15.0% 14,477	8.6% 8,323	15.7% 15,186	18.8% 18,217	1.2% 1,151	0.2% 209	25.9% 25,039	12.0% 11,617	0.0% 0	2.7% 2,588	0.0% 0	0.0% 0	15.7% 15,186	
Urban Furn. (3) 269,121 / 3.3%	5.0% 13,394	1.0% 2,789	0.6% 1,733	42.0% 42,000	2.7% 7,186	4.1% 11,143	23.3% 62,709	15.7% 42,169	0.0% 80	5.5% 14,723	0.0% 104	0.0% 0	42.0%	
Roof (4) 877,490 / 10.8%	3.9% 34,131	1.2% 10,591	0.0% 54	3.0% 25,918	87.6% 87,600	1.4% 12,622	0.7% 6,143	1.7% 15,226	0.0% 8	0.1% 1,096	0.3% 2,664	0.0% 0	87.6%	
Facade (5) 500,492 / 6.2%	1.9% 9,593	0.4% 1,849	0.0% 50	7.0% 34,904	2.4% 12,060	72.0% 72,000	5.8% 28,832	2.7% 13,367	0.0% 41	7.0% 35,131	0.9% 4,559	0.0% 0	72.0%	
Shrub (6) 182,133 / 2.2%	1.9% 3,407	0.6% 1,002	0.3% 566	24.0% 43,745	2.1% 3,858	1.3% 2,343	42.5% 77,347	24.2% 44,020	0.0% 1	3.2% 5,839	0.0% 5	0.0% 0	42.5% 77,347	
Tree (7) 1,067,121 / 13.2%	0.5% 5,555	0.0% 51	0.3% 3,705	1.1% 12,252	1.5% 15,477	0.5% 5,163	8.4% 90,159	87.2% 87,200	0.0% 2	0.3% 3,402	0.0% 478	0.0% 0	87.2%	
Soil / Gravel (8) 131,349 / 1.6%	19.8% 26,038	69.5% 91,302	0.0% 8	1.3% 1,762	0.0% 4	0.0% 13	0.3% 455	0.1% 132	8.8% 11,600	0.0% 35	0.0% 0	0.0% 0	8.8% 11,600	
Vertical (9) 103,575 / 1.3%	3.3% 3,368	4.0% 4,157	0.1% 115	2.6% 2,707	0.2% 173	19.5% 20,240	3.1% 3,258	3.5% 3,657	0.0% 14	63.6% 65,885	0.0% 1	0.0% 0	63.6% 65,885	
Chimney (10) 8,971 / 0.1%	0.1% 5	0.0% 0	0.0% 0	1.6% 142	8.5% 767	0.9% 77	1.6% 143	2.2% 193	0.1% 7	0.0% 0	85.1% 7,637	0.0% 0	85.1% 7,637	
Ignore* (11) 3,126,819 / 38.6%	18.1% 79,656	2.5% 79,656	0.4% 12,386	5.4% 33,169	4.6% 33,169	9.5% 306,686	13.4% 419,853	40.7% 306,686	0.1% 2,161	5.1% 7,890	0.3% 7,890	0.0% 0	0.0% 0	
precision	52.0%	48.9%	61.3% 15,186	34.1%	93.5%	85.8%	25.2% 77,347	87.4%	12.7% 11,600	43.6% 65,885	49.4% 7,637	nan%	0	64.9%
F1 μ=52.3%	47.0%	53.4%	25.0%	37.6%	90.5%	78.3%	31.6%	87.3%	10.4%	51.8%	62.5%	nan%		
Low Veg. (0) 751,023 / 9.3%	1.0%	1.0%	0.1%	5.0%	0.4%	0.3%	0.9%	0.1%	6.6%	0.7%	0.0%	0.0%		
Imp. Surface (1) 1,002,136 / 12.4%	30.0%	30.0%	0.3%	4.0%	1.1%	0.7%	0.5%	0.3%	2.3%	1.9%	0.0%	0.0%		
Vehicle (2) 24,716 / 0.3%	15.0%	15.0%	15.7%	18.8%	1.2%	0.2%	25.9%	12.0%	0.0%	2.7%	0.0%	0.0%		
Urban Furn. (3) 331,689 / 4.1%	5.0%	5.0%	0.6%	42.0%	2.7%	4.1%	23.3%	15.7%	0.0%	5.5%	0.0%	0.0%		
Roof (4) 822,450 / 10.1%	3.9%	3.9%	0.0%	3.0%		1.4%	0.7%	1.7%	0.0%	0.1%	0.3%	0.0%		
Facade (5) 419,853 / 5.2%	1.9%	1.9%	0.0%	7.0%	2.4%		5.8%	2.7%	0.0%	7.0%	0.9%	0.0%		
Shrub (6) 306,686 / 3.8%	1.9%	1.9%	0.3%	24.0%	2.1%	1.3%	42.5%	24.2%	0.0%	3.2%	0.0%	0.0%		
Tree (7) 1,064,721 / 13.1%	0.5%	0.5%	0.3%	1.1%	1.5%	0.5%	8.4%	87.2%	0.0%	0.3%	0.0%	0.0%		
Soil / Gravel (8) 91,047 / 1.1%	19.8%	19.8%	0.0%	1.3%	0.0%	0.0%	0.3%	0.1%	8.8%	0.0%	0.0%	0.0%		
Vertical (9) 151,012 / 1.9%	3.3%	3.3%	0.1%	2.6%	0.2%	19.5%	3.1%	3.5%	0.0%	63.6%	0.0%	0.0%		
Chimney (10) 15,455 / 0.2%	0.1%	0.1%	0.0%	1.6%	8.5%	0.9%	1.6%	2.2%	0.1%	0.0%	85.1%	0.0%		
Ignore (11) 0 / 0.0%	18.1%	18.1%	0.4%	5.4%	4.6%	9.5%	13.4%		0.1%	5.1%	0.3%	0.0%		
recall														

prediction