

Confusion Matrix

ground truth

Low Veg. (0) 910,596 / 11.2%	81.7% 53,177	5.8% 3,030	0.3% 19,633	2.2% 3,786	0.4% 6,305	0.7% 34,109	3.7% 11,022	1.2% 33,700	3.7% 1,645	0.0% 0	0.0% 0	81.7%	
Imp. Surface (1) 833,163 / 10.3%	5.5% 45,426	81.4% 18,398	2.2% 34,493	4.1% 18,944	2.3% 16,865	0.6% 4,643	0.4% 3,514	0.4% 3,744	1.0% 8,649	0.0% 1	0.0% 0	81.4%	
Vehicle (2) 96,807 / 1.2%	0.2% 209	13.3% 12,894	43.4% 42,016	26.4% 25,515	11.2% 10,875	3.5% 3,368	0.1% 100	1.6% 1,510	0.2% 197	0.1% 123	0.0% 0	43.4% 42,016	
Urban Furn. (3) 269,121 / 3.3%	1.0% 2,590	2.3% 6,100	7.4% 19,807	48.5% 32,550	12.1% 28,940	10.8% 21,623	8.9% 23,923	0.0% 92	1.0% 2,691	0.1% 276	0.0% 0	48.5%	
Roof (4) 877,490 / 10.8%	0.1% 1,109	1.5% 12,727	0.3% 2,475	1.8% 15,536	93.6% 13,928	1.6% 1,354	0.2% 5,694	0.0% 5	0.1% 737	0.2% 2,191	0.0% 0	93.6%	
Facade (5) 500,492 / 6.2%	0.2% 1,122	1.0% 4,886	0.6% 2,770	5.7% 28,697	4.1% 20,350	85.5% 5,281	1.1% 4,330	0.9% 100	1.0% 5,020	0.0% 99	0.0% 0	85.5%	
Shrub (6) 182,133 / 2.2%	1.2% 2,114	0.9% 1,580	0.9% 1,621	7.8% 14,169	0.8% 1,531	2.3% 4,249	52.7% 95,977	32.8% 59,762	0.0% 73	0.6% 1,057	0.0% 0	52.7% 95,977	
Tree (7) 1,067,121 / 13.2%	0.2% 1,898	0.0% 49	0.1% 545	0.5% 5,839	0.6% 6,014	0.2% 1,879	3.2% 34,243	95.2% 153	0.0% 688	0.1% 88	0.0% 0	95.2%	
Soil / Gravel (8) 131,349 / 1.6%	50.3% 66,046	23.5% 30,864	0.1% 87	0.7% 971	0.1% 101	0.3% 430	0.7% 860	0.3% 349	24.1% 31,619	0.0% 22	0.0% 0	24.1% 31,619	
Vertical (9) 103,575 / 1.3%	0.8% 843	2.9% 2,957	3.0% 3,099	5.4% 5,607	3.2% 3,352	38.7% 40,101	0.7% 690	0.5% 554	0.0% 37	44.7% 46,289	0.0% 46	44.7% 46,289	
Chimney (10) 8,971 / 0.1%	0.0% 0	0.0% 0	0.0% 0	2.9% 258	8.3% 743	1.1% 103	0.0% 0	0.2% 16	0.0% 0	0.0% 0	87.5% 7,851	87.5% 7,851	
Ignore* (11) 3,126,819 / 38.6%	13.1% 72,527	2.3% 33,909	1.1% 33,909	4.8% 7,851	6.8% 10,875	12.1% 21,623	7.3% 21,892	49.7% 62,892	0.7% 2,648	2.0% 2,648	0.1% 0	0.0% 0	
precision	86.0%	84.4%	44.8% 42,016	46.4%	89.3%	78.6%	48.3% 95,977	90.2%	45.4% 31,619	69.2% 46,289	74.4% 7,851	nan% 0	81.2%
F1 μ=67.3%	83.8%	82.9%	44.1%	47.4%	91.4%	81.9%	50.4%	92.6%	31.5%	54.3%	80.4%	nan%	
Low Veg. (0) 865,546 / 10.1%	86.0%	84.4%	44.8% 42,016	46.4%	89.3%	78.6%	48.3% 95,977	90.2%	45.4% 31,619	69.2% 46,289	74.4% 7,851	nan% 0	81.2%
Imp. Surface (1) 803,720 / 9.9%	5.5% 45,426	81.4% 18,398	2.2% 34,493	4.1% 18,944	2.3% 16,865	0.6% 4,643	0.4% 3,514	0.4% 3,744	1.0% 8,649	0.0% 1	0.0% 0	81.4%	
Vehicle (2) 93,880 / 1.2%	0.2% 209	13.3% 12,894	43.4% 42,016	26.4% 25,515	11.2% 10,875	3.5% 3,368	0.1% 100	1.6% 1,510	0.2% 197	0.1% 123	0.0% 0	43.4% 42,016	
Urban Furn. (3) 281,247 / 3.5%	1.0% 2,590	2.3% 6,100	7.4% 19,807	48.5% 32,550	12.1% 28,940	10.8% 21,623	8.9% 23,923	0.0% 92	1.0% 2,691	0.1% 276	0.0% 0	48.5%	
Roof (4) 919,980 / 11.3%	0.1% 1,109	1.5% 12,727	0.3% 2,475	1.8% 15,536	93.6% 13,928	1.6% 1,354	0.2% 5,694	0.0% 5	0.1% 737	0.2% 2,191	0.0% 0	93.6%	
Facade (5) 544,005 / 6.7%	0.2% 1,122	1.0% 4,886	0.6% 2,770	5.7% 28,697	4.1% 20,350	85.5% 5,281	1.1% 4,330	0.9% 100	1.0% 5,020	0.0% 99	0.0% 0	85.5%	
Shrub (6) 198,880 / 2.5%	1.2% 2,114	0.9% 1,580	0.9% 1,621	7.8% 14,169	0.8% 1,531	2.3% 4,249	52.7% 95,977	32.8% 59,762	0.0% 73	0.6% 1,057	0.0% 0	52.7% 95,977	
Tree (7) 126,399 / 13.3%	0.2% 1,898	0.0% 49	0.1% 545	0.5% 5,839	0.6% 6,014	0.2% 1,879	3.2% 34,243	95.2% 153	0.0% 688	0.1% 88	0.0% 0	95.2%	
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Vertical (9) 66,921 / 0.8%	0.8% 843	2.9% 2,957	3.0% 3,099	5.4% 5,607	3.2% 3,352	38.7% 40,101	0.7% 690	0.5% 554	0.0% 37	44.7% 46,289	0.0% 46	44.7% 46,289	
Chimney (10) 10,352 / 0.1%	0.0% 0	0.0% 0	0.0% 0	2.9% 258	8.3% 743	1.1% 103	0.0% 0	0.2% 16	0.0% 0	0.0% 0	87.5% 7,851	87.5% 7,851	
Ignore (11) 0 / 0.0%	13.1% 72,527	2.3% 33,909	1.1% 33,909	4.8% 7,851	6.8% 10,875	12.1% 21,623	7.3% 21,892	49.7% 62,892	0.7% 2,648	2.0% 2,648	0.1% 0	0.0% 0	
recall	86.0%	84.4%	44.8% 42,016	46.4%	89.3%	78.6%	48.3% 95,977	90.2%	45.4% 31,619	69.2% 46,289	74.4% 7,851	nan% 0	81.2%

prediction