

Confusion Matrix

ground truth

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|-------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------|-----------------|
| Low Veg. (0) 910,596 / 11.2% | 87.7% | 7.5% 67,906 | 0.4% 3,800 | 1.4% 12,672 | 0.4% 3,759 | 0.5% 4,391 | 1.1% 9,697 | 0.0% 423 | 0.6% 5,606 | 0.4% 3,952 | 0.0% 1 | 0.0% 0 | 87.7% |
| Imp. Surface (1) 833,163 / 10.3% | 7.0% 58,619 | 84.0% | 1.4% 11,358 | 3.0% 24,660 | 2.0% 16,344 | 1.4% 11,481 | 0.3% 2,727 | 0.1% 1,194 | 0.2% 1,352 | 0.7% 5,530 | 0.0% 0 | 0.0% 0 | 84.0% |
| Vehicle (2) 96,807 / 1.2% | 1.7% 1,665 | 20.7% 20,006 | 32.9% 31,843 | 18.3% 17,709 | 10.4% 10,064 | 13.8% 13,363 | 0.6% 610 | 0.9% 916 | 0.0% 1 | 0.4% 390 | 0.2% 240 | 0.0% 0 | 32.9% 31,843 |
| Urban Furn. (3) 269,121 / 3.3% | 3.7% 9,896 | 6.1% 16,336 | 8.9% 24,007 | 42.1% 41,211 | 8.1% 21,816 | 18.9% 50,897 | 4.7% 12,624 | 3.5% 9,395 | 0.1% 211 | 3.7% 9,932 | 0.2% 635 | 0.0% 0 | 42.1% |
| Roof (4) 877,490 / 10.8% | 0.9% 7,865 | 2.0% 17,377 | 0.3% 2,787 | 1.4% 12,713 | 92.0% 91,211 | 2.3% 19,986 | 0.1% 911 | 0.4% 3,794 | 0.0% 195 | 0.1% 1,083 | 0.4% 3,444 | 0.0% 0 | 92.0% |
| Facade (5) 500,492 / 6.2% | 0.6% 2,923 | 2.5% 12,350 | 0.2% 1,158 | 3.0% 14,900 | 2.8% 13,805 | 86.9% 86,900 | 0.4% 1,930 | 0.2% 1,055 | 0.0% 74 | 3.5% 17,315 | 0.0% 189 | 0.0% 0 | 86.9% |
| Shrub (6) 182,133 / 2.2% | 8.9% 16,198 | 1.6% 2,879 | 2.2% 4,000 | 10.6% 19,260 | 1.3% 2,309 | 2.9% 5,192 | 52.0% 94,779 | 15.1% 27,529 | 0.0% 3 | 5.5% 9,973 | 0.0% 11 | 0.0% 0 | 52.0% 94,779 |
| Tree (7) 1,067,121 / 13.2% | 3.2% 34,396 | 0.1% 641 | 0.0% 419 | 0.2% 2,328 | 3.7% 39,819 | 0.9% 10,033 | 4.9% 52,076 | 84.5% 84,500 | 0.1% 946 | 2.3% 24,354 | 0.0% 442 | 0.0% 0 | 84.5% |
| Soil / Gravel (8) 131,349 / 1.6% | 63.5% 83,385 | 24.4% 32,113 | 0.1% 106 | 0.2% 283 | 0.0% 4 | 0.1% 197 | 0.1% 134 | 0.0% 3 | 11.4% 14,956 | 0.1% 168 | 0.0% 0 | 0.0% 0 | 11.4% 14,956 |
| Vertical (9) 103,575 / 1.3% | 2.1% 2,149 | 7.9% 8,184 | 0.6% 582 | 5.8% 5,996 | 1.3% 1,396 | 32.6% 33,729 | 0.1% 154 | 0.2% 205 | 0.1% 76 | 49.3% 51,061 | 0.0% 43 | 0.0% 0 | 49.3% 51,061 |
| Chimney (10) 8,971 / 0.1% | 0.0% 0 | 0.0% 0 | 0.1% 8 | 4.3% 382 | 7.4% 660 | 1.1% 95 | 0.2% 15 | 0.5% 47 | 0.0% 0 | 0.0% 0 | 86.5% 7,764 | 0.0% 0 | 86.5% 7,764 |
| Ignore* (11) 3,126,819 / 38.6% | 23.8% 20,975 | 3.2% 20,975 | 0.7% 81,658 | 2.6% 81,658 | 7.1% 81,658 | 13.2% 81,658 | 8.3% 81,658 | 36.6% 81,658 | 0.2% 6,578 | 4.1% 4,067 | 0.1% 4,067 | 0.0% 0 | 0.0% 0 |
| precision | 78.6% | 79.7% | 39.8% 31,843 | 50.6% | 88.0% | 74.4% | 54.0% 94,779 | 95.3% | 63.9% 14,956 | 41.3% 51,061 | 60.8% 7,764 | nan% 0 | 79.4% |
| F1 $\mu=63.2\%$ | 82.9% | 81.8% | 36.0% | 46.0% | 90.0% | 80.2% | 53.0% | 89.6% | 19.3% | 44.9% | 71.4% | nan% | |

prediction