

| assessment_id | sale_id | Vacant_Improved | ASR |
|-----------------|---------|-----------------|------|
| 370-000131301 | 2333033 | Improved | 1.64 |
| 370LU-505000050 | 1558218 | Improved | 0.54 |
| 397-000906403 | 2444653 | Improved | 0.56 |
| 398LA-505003400 | 2373791 | Improved | 1.12 |
| 399-000831403 | 1513928 | Improved | 0.74 |
| 400-000332401 | 2439224 | Improved | 0.41 |
| 401-000736203 | 2354882 | Improved | 0.67 |
| 426CH-505000050 | 1572968 | Improved | 0.40 |
| 427-000806406 | 1520139 | Improved | 0.77 |
| 427-000904401 | 2444224 | Improved | 1.14 |
| 428RE-505000650 | 1548511 | Improved | 0.97 |
| 431DO-606005700 | 2008150 | Improved | 2.07 |
| 431DO-606005750 | 2293978 | Improved | 1.23 |
| 431DO-606005750 | 2431499 | Improved | 0.65 |
| 431HO-505005300 | 2248708 | Improved | 1.25 |
| 458GR-505000300 | 2184575 | Improved | 5.70 |
| 486-001105210 | 2285853 | Improved | 0.56 |
| 490-000716209 | 2362525 | Improved | 1.65 |
| 520-001317305 | 2329914 | Improved | 1.58 |
| 520-002004400 | 2342386 | Improved | 0.49 |
| 520CC-626201350 | 2380824 | Improved | 0.85 |
| 521SS-494502400 | 2340820 | Improved | 0.97 |
| 521SS-494546000 | 2216580 | Improved | 0.69 |
| ALLAN-505012400 | 2410156 | Improved | 1.05 |
| ALLAN-505012500 | 2380728 | Improved | 0.97 |
| ANNAH-505000800 | 1531339 | Improved | 0.51 |
| ANNAH-505000800 | 2079586 | Improved | 0.53 |
| ARBOR-505000400 | 2183377 | Improved | 2.43 |
| ARBOR-505001650 | 2254362 | Improved | 1.10 |
| ARBOR-505002700 | 2266743 | Improved | 3.80 |
| ARBOR-505002700 | 2338891 | Improved | 1.14 |
| ARBOR-505003100 | 1509824 | Improved | 0.92 |
| ARCHE-505000700 | 2434443 | Improved | 0.93 |
| AYLSH-505001400 | 2439728 | Improved | 3.22 |
| BIGRI-505025400 | 2398310 | Improved | 1.03 |
| BIRCH-505006100 | 2400510 | Improved | 0.97 |
| BIRCH-505013400 | 1558261 | Improved | 1.23 |
| BIRCH-505013400 | 2377207 | Improved | 0.66 |
| BIRCH-505013500 | 2210073 | Improved | 0.83 |
| BIRCH-505029400 | 1512914 | Improved | 0.54 |
| CANDL-444800900 | 2363104 | Improved | 1.27 |
| CANDL-454500100 | 2399532 | Improved | 0.69 |
| CANDL-454608700 | 2367773 | Improved | 0.70 |
| CANDL-484200050 | 2374743 | Improved | 0.67 |
| CANDL-484300065 | 2320233 | Improved | 0.99 |
| CANDL-484300700 | 2376960 | Improved | 1.21 |
| CANDL-484300750 | 2393068 | Improved | 2.07 |
| CANDL-504425000 | 2321807 | Improved | 0.48 |
| CANDL-504590500 | 2074586 | Improved | 0.83 |
| CANDL-504590500 | 2335502 | Improved | 0.50 |
| CANDL-504590700 | 2454221 | Improved | 0.82 |
| CANDL-504592250 | 2213704 | Improved | 1.25 |

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| CANDL-504595150 | 1569017 | Improved | 0.61 |
| CANDL-504595300 | 2394437 | Improved | 0.85 |
| CARRO-505000500 | 2470511 | Improved | 0.50 |
| CARRO-505000600 | 2351942 | Improved | 0.67 |
| CARRO-505000850 | 2185373 | Improved | 1.56 |
| CARRO-505002300 | 2374448 | Improved | 0.58 |
| CARRO-505002850 | 2432645 | Improved | 1.43 |
| CARRO-505003050 | 2417429 | Improved | 1.68 |
| CARRO-505003300 | 1531400 | Improved | 0.95 |
| CARRO-505003300 | 2042420 | Improved | 0.95 |
| CARRO-505003600 | 1536273 | Improved | 1.21 |
| CARRO-505012900 | 2315051 | Improved | 0.94 |
| CARRO-505018350 | 2202183 | Improved | 5.16 |
| CARRO-505024450 | 2390696 | Improved | 1.39 |
| CARRO-505024950 | 2266732 | Improved | 1.60 |
| CARRO-505025600 | 2291574 | Improved | 1.00 |
| CHOIC-505000150 | 2263484 | Improved | 1.04 |
| CHOIC-505000300 | 1051976 | Improved | 0.54 |
| CHOIC-505001800 | 2191570 | Improved | 1.18 |
| CHOIC-505001800 | 2368884 | Improved | 1.03 |
| CHOIC-505008700 | 2239258 | Improved | 2.94 |
| CHOIC-505013050 | 2405264 | Improved | 1.16 |
| CHRIS-504901450 | 2318746 | Improved | 1.16 |
| CHRIS-504910350 | 2208265 | Improved | 1.13 |
| CODET-505005350 | 2004580 | Improved | 0.56 |
| CODET-505005350 | 2375553 | Improved | 0.56 |
| CODET-890101001 | 2155051 | Improved | 2.27 |
| CODET-890101001 | 2378064 | Improved | 0.82 |
| CUDWO-505000050 | 2311565 | Improved | 3.02 |
| CUDWO-505000150 | 2290875 | Improved | 1.85 |
| CUDWO-505000250 | 2290784 | Improved | 2.71 |
| CUDWO-505000300 | 2304405 | Improved | 1.08 |
| CUDWO-505000450 | 2235631 | Improved | 0.21 |
| CUDWO-505001800 | 2190766 | Improved | 0.87 |
| CUDWO-505002700 | 2247588 | Improved | 1.56 |
| CUDWO-505002800 | 2369673 | Improved | 0.35 |
| CUDWO-505002850 | 1515041 | Improved | 1.07 |
| CUDWO-505002850 | 2267708 | Improved | 0.93 |
| CUDWO-505005700 | 2373134 | Improved | 1.28 |
| CUDWO-505007100 | 2232032 | Improved | 0.59 |
| CUDWO-505023050 | 2254173 | Improved | 0.75 |
| CUDWO-505024000 | 1057482 | Improved | 0.93 |
| CUDWO-515001000 | 2184813 | Improved | 0.54 |
| CUDWO-515001000 | 2339069 | Improved | 0.53 |
| DELIS-505016450 | 2015963 | Improved | 1.46 |
| DELIS-505016850 | 2391959 | Improved | 0.68 |
| DUCKL-505000850 | 1581563 | Improved | 0.48 |
| DUCKL-505001150 | 2334213 | Improved | 1.16 |
| DUCKL-505003250 | 2369037 | Improved | 2.16 |
| DUCKL-505026850 | 2324899 | Improved | 0.67 |
| DUCKL-505036000 | 1559117 | Improved | 0.49 |
| DUCKL-505044000 | 2231472 | Improved | 0.45 |
| ENGLE-505001800 | 2370676 | Improved | 0.86 |

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| ENGLE-505008700 | 1515018 | Improved | 0.68 |
| ENGLE-505008750 | 1564346 | Improved | 0.67 |
| FOSST-505001400 | 2294035 | Improved | 3.47 |
| KELVI-505004120 | 2214220 | Improved | 1.49 |
| KINIS-505003650 | 2335714 | Improved | 0.71 |
| KINIS-505005200 | 2218509 | Improved | 1.98 |
| KINIS-505012400 | 2375732 | Improved | 1.19 |
| KINIS-515000100 | 2390138 | Improved | 1.18 |
| LAKEL-505000350 | 2405733 | Improved | 1.36 |
| LAMPM-505040075 | 2190262 | Improved | 0.95 |
| LASHB-495005400 | 1583421 | Improved | 1.15 |
| LEADE-505034100 | 1553429 | Improved | 1.00 |
| LOVE-505007250 | 2290966 | Improved | 0.83 |
| MEATH-890100500 | 2205968 | Improved | 0.95 |
| MEATH-890100500 | 2398058 | Improved | 0.85 |
| MIDDL-505001000 | 1561820 | Improved | 2.42 |
| MIDDL-505001000 | 1582522 | Improved | 2.04 |
| MIDDL-505001000 | 2307881 | Improved | 0.71 |
| MIDDL-505001000 | 2339726 | Improved | 0.72 |
| MIDDL-505001750 | 1549453 | Improved | 1.25 |
| MIDDL-505001750 | 2316907 | Improved | 0.99 |
| MIDDL-505002250 | 2332144 | Improved | 1.63 |
| MUENS-505000900 | 2078958 | Improved | 1.28 |
| MUENS-890000300 | 2079695 | Improved | 1.41 |
| NAICA-505000300 | 2401705 | Improved | 1.30 |
| NAICA-505000500 | 2015081 | Improved | 3.69 |
| NAICA-505001750 | 2389933 | Improved | 1.30 |
| NAICA-505001750 | 2470510 | Improved | 1.10 |
| NAICA-505004350 | 2341715 | Improved | 0.89 |
| NAICA-505004550 | 2193954 | Improved | 0.86 |
| NAICA-505006650 | 2335738 | Improved | 0.59 |
| NAICA-505009801 | 2370428 | Improved | 0.70 |
| NAICA-505024300 | 1539226 | Improved | 3.30 |
| NAICA-505028150 | 2340862 | Improved | 2.11 |
| PADDO-505001210 | 1522756 | Improved | 2.71 |
| PADDO-505002200 | 2001740 | Improved | 1.07 |
| PARAD-504913150 | 2371870 | Improved | 1.79 |
| PILGE-505001550 | 2229989 | Improved | 0.60 |
| PILGE-505001550 | 2333275 | Improved | 1.45 |
| RIDGE-505001200 | 2368553 | Improved | 4.41 |
| ROCAN-505109700 | 2388534 | Improved | 0.57 |
| ROCAN-505113050 | 2205277 | Improved | 1.00 |
| ROCAN-505113150 | 2205278 | Improved | 1.00 |
| ROSEV-505000050 | 2371740 | Improved | 1.54 |
| ROSEV-505010250 | 2339283 | Improved | 0.36 |
| SMEAT-505001550 | 2076497 | Improved | 1.19 |
| SMEAT-505001900 | 2194561 | Improved | 2.57 |
| SMEAT-505008750 | 2266278 | Improved | 1.02 |
| SMEAT-505008750 | 2384477 | Improved | 0.71 |
| SPALD-505002100 | 1553976 | Improved | 4.14 |
| SPALD-505003900 | 2408327 | Improved | 0.67 |
| STARC-505003650 | 2254856 | Improved | 1.20 |
| STARC-505003850 | 1549451 | Improved | 2.43 |

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| STARC-505015100 | 2369770 | Improved | 1.51 |
| STARC-505015350 | 2224617 | Improved | 1.02 |
| STARC-505023050 | 1566046 | Improved | 0.59 |
| STBRI-505010400 | 2353401 | Improved | 1.00 |
| STBRI-505013600 | 2173357 | Improved | 0.96 |
| STBRI-505014860 | 2435781 | Improved | 0.75 |
| STBRI-505015200 | 2328619 | Improved | 0.96 |
| STLOU-505011800 | 2190654 | Improved | 2.21 |
| STLOU-505012150 | 2432854 | Improved | 1.16 |
| STLOU-505012900 | 2247772 | Improved | 1.86 |
| STWAL-504911600 | 2368054 | Improved | 0.72 |
| WAKAW-504900950 | 2315705 | Improved | 0.51 |
| WAKAW-505026700 | 1579976 | Improved | 1.05 |
| WAKAW-505026900 | 2264801 | Improved | 1.51 |
| WAKAW-505027350 | 2372649 | Improved | 0.75 |
| WAKAW-505028750 | 2288616 | Improved | 0.40 |
| WAKAW-505029600 | 2076449 | Improved | 0.98 |
| WAKAW-505029700 | 2257384 | Improved | 0.45 |
| WAKAW-505033550 | 1506439 | Improved | 1.16 |
| WAKAW-505038300 | 2419481 | Improved | 0.53 |
| WAKAW-505039700 | 2413531 | Improved | 0.73 |
| WAKAW-505040300 | 2341388 | Improved | 0.50 |
| WAKAW-505040500 | 2303127 | Improved | 0.93 |
| WAKAW-515008900 | 1509767 | Improved | 1.00 |
| WATSO-495007400 | 2303734 | Improved | 1.18 |
| WATSO-504901600 | 2332157 | Improved | 1.09 |
| WATSO-504902100 | 2010464 | Improved | 0.64 |
| WATSO-504902300 | 2329216 | Improved | 1.44 |
| WATSO-505001800 | 2383904 | Improved | 2.32 |
| WATSO-505002750 | 2212865 | Improved | 0.68 |
| WATSO-505002750 | 2460293 | Improved | 2.33 |
| WATSO-505003050 | 2445946 | Improved | 1.27 |
| WATSO-505003150 | 2113483 | Improved | 0.37 |
| WATSO-505003550 | 2295338 | Improved | 0.78 |
| WATSO-505004950 | 2188367 | Improved | 1.27 |
| WATSO-505004950 | 2439039 | Improved | 2.31 |
| WATSO-505005050 | 2189560 | Improved | 1.82 |
| WATSO-505005050 | 2439432 | Improved | 0.86 |
| WATSO-505009150 | 2181077 | Improved | 0.71 |
| WEIRD-505000100 | 2349085 | Improved | 0.79 |
| WELDO-505000450 | 2335604 | Improved | 2.75 |
| WHITE-505000200 | 2065573 | Improved | 0.50 |
| WHITE-505000850 | 1055722 | Improved | 0.26 |
| WHITE-505000900 | 2186346 | Improved | 1.89 |
| WHITE-505001550 | 2350522 | Improved | 0.60 |
| WHITE-505004200 | 2337505 | Improved | 2.16 |
| WHITE-505004300 | 2006930 | Improved | 0.44 |
| WHITE-505004300 | 2376751 | Improved | 0.53 |
| ZENON-505000550 | 1582814 | Improved | 1.59 |
| ZENON-505000850 | 1055377 | Improved | 1.74 |
| ZENON-505000850 | 1580790 | Improved | 1.67 |
| ZENON-505002600 | 1505037 | Improved | 0.99 |
| 070KA-505012350 | 2440881 | Improved | 0.35 |

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| 070KA-990100200 | 2414051 | Improved | 1.50 |
| 128-000403401 | 2299560 | Improved | 0.63 |
| 137SW-504505760 | 2451157 | Improved | 0.84 |
| 158GP-404028050 | 2245721 | Improved | 0.95 |
| 159SI-606005300 | 2360462 | Improved | 1.07 |
| 159SI-606020200 | 2327977 | Improved | 0.68 |
| 159SI-606100600 | 2307349 | Improved | 1.01 |
| 159SI-606109800 | 2387657 | Improved | 3.01 |
| 159WI-656503400 | 2412681 | Improved | 0.79 |
| 217-000226300 | 2405078 | Improved | 1.38 |
| 224LA-990000250 | 1554395 | Improved | 1.03 |
| 244-000404301 | 2395187 | Improved | 0.99 |
| 244-000414311 | 2229449 | Improved | 0.93 |
| 254-000813401 | 2315104 | Improved | 0.76 |
| 255-000415302 | 2239468 | Improved | 0.97 |
| 259-001027401 | 1512133 | Improved | 1.01 |
| 261-001815401 | 1512139 | Improved | 1.09 |
| 271-001406302 | 2336669 | Improved | 0.69 |
| 286-000122102 | 1512213 | Improved | 1.14 |
| 344-000505102 | 2446122 | Improved | 0.59 |
| 344-000819350 | 2188916 | Improved | 0.84 |
| 344-000819410 | 2353023 | Improved | 0.95 |
| 344-000819430 | 2340083 | Improved | 0.70 |
| 370CA-505006400 | 2287249 | Improved | 1.39 |
| 437-000325406 | 2232303 | Improved | 1.02 |
| 437-000629402 | 2074568 | Improved | 1.56 |
| 461LP-505019600 | 2443552 | Improved | 0.90 |
| 468CA-505000100 | 2459318 | Improved | 1.03 |
| 471-000233202 | 2115072 | Improved | 0.69 |
| 472-001531200 | 2359141 | Improved | 1.20 |
| 472-001636101 | 2363343 | Improved | 0.70 |
| 491-000416407 | 2398671 | Improved | 0.69 |
| 491GA-211918550 | 2101942 | Improved | 0.78 |
| ANNAH-505006900 | 2403230 | Improved | 1.85 |
| BEECH-990001200 | 1514362 | Improved | 0.99 |
| BIRCH-505006100 | 2400510 | Improved | 0.59 |
| CARRO-505025600 | 2291574 | Improved | 0.99 |
| CUDWO-505005700 | 2373134 | Improved | 0.71 |
| CUTKN-990100300 | 2247820 | Improved | 0.56 |
| DEBDE-505043000 | 2231968 | Improved | 0.83 |
| DRINK-505019100 | 2230867 | Improved | 1.43 |
| HUMBO-495305300 | 2443553 | Improved | 0.79 |
| KINIS-505042500 | 2443556 | Improved | 1.32 |
| KINIS-515005000 | 2442675 | Improved | 1.37 |
| KYLE-505021620 | 2283336 | Improved | 0.61 |
| LAMPM-505034000 | 2233464 | Improved | 0.99 |
| LINTL-505015200 | 1571328 | Improved | 3.56 |
| LUCKY-890005600 | 2288877 | Improved | 1.01 |
| LUSEL-515105000 | 2288575 | Improved | 0.98 |
| MELVI-485104550 | 2304684 | Improved | 1.60 |
| MOOSE-454800300 | 2209486 | Improved | 0.79 |
| MOOSE-455000200 | 2365382 | Improved | 1.38 |
| MOOSE-504933800 | 1200291 | Improved | 0.59 |

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| MOOSE-505400150 | 1580927 | Improved | 2.32 |
| NBATT-303016400 | 2385046 | Improved | 1.51 |
| NBATT-535280700 | 2258900 | Improved | 1.23 |
| NBATT-535280850 | 2362069 | Improved | 1.77 |
| NBATT-545336200 | 42054 | Improved | 1.61 |
| PENNA-505009200 | 1574552 | Improved | 0.79 |
| PONTE-890102100 | 1552820 | Improved | 0.50 |
| RHEIN-505014000 | 1568590 | Improved | 0.21 |
| RICHM-505010300 | 2233002 | Improved | 0.88 |
| SHAUN-890100960 | 2327310 | Improved | 0.70 |
| SINTA-505022965 | 2459423 | Improved | 0.27 |
| SMILE-505007770 | 2302580 | Improved | 0.87 |
| STLOU-505013500 | 1540709 | Improved | 1.02 |
| STOUG-890100750 | 1575232 | Improved | 1.10 |
| WEYBU-514811000 | 2367772 | Improved | 2.94 |
| WILKI-890100210 | 2489884 | Improved | 1.80 |
| WOODM-505017000 | 2405740 | Improved | 1.67 |
| YORKT-505203000 | 1510385 | Improved | 1.44 |
| YORKT-505305000 | 2334143 | Improved | 0.85 |
| YOUNG-515011400 | 2244379 | Improved | 1.15 |
| ZEALA-505030000 | 2511334 | Improved | 0.99 |
| CUDWO-505103150 | 1525793 | Vacant | 1.25 |
| CUDWO-505012650 | 1568016 | Vacant | 0.61 |
| CUDWO-505014750 | 2444699 | Vacant | 0.61 |
| CUDWO-505103050 | 1501761 | Vacant | 1.00 |
| CUDWO-505014750 | 2313717 | Vacant | 2.03 |
| CUDWO-505103050 | 1501936 | Vacant | 0.88 |
| CUDWO-505103250 | 1512014 | Vacant | 1.30 |
| CUDWO-495000250 | 1536360 | Vacant | 1.62 |
| CUDWO-505017450 | 2105141 | Vacant | 2.26 |
| CUDWO-505008950 | 2454692 | Vacant | 1.14 |
| CUDWO-505013300 | 2214599 | Vacant | 0.43 |
| CUDWO-505012700 | 1555200 | Vacant | 0.61 |
| CUDWO-505019600 | 2381718 | Vacant | 0.99 |
| CUDWO-495000300 | 1536361 | Vacant | 1.04 |
| CUDWO-505019050 | 2301500 | Vacant | 0.91 |
| CUDWO-495000150 | 1536358 | Vacant | 0.99 |
| CUDWO-505030000 | 1052928 | Vacant | 1.01 |
| CUDWO-505000950 | 2403073 | Vacant | 0.65 |
| CUDWO-505003800 | 2105140 | Vacant | 1.22 |
| CUDWO-505029800 | 1052872 | Vacant | 1.02 |