

| assessment_id   | sale_id | Vacant_Improved | ASR  |
|-----------------|---------|-----------------|------|
| 189-000126402   | 1555389 | Vacant          | 1.52 |
| 189-000218113   | 2033708 | Vacant          | 0.95 |
| 189-000218114   | 2033709 | Vacant          | 0.95 |
| 189-000218115   | 2002834 | Vacant          | 1.06 |
| 189-000218116   | 1528716 | Vacant          | 1.06 |
| 189-000233306   | 1530483 | Vacant          | 0.91 |
| 189-000328101   | 2229764 | Vacant          | 1.00 |
| 189-000329404   | 863890  | Vacant          | 0.69 |
| 189-000329405   | 2188635 | Vacant          | 0.73 |
| 189-000329406   | 2186789 | Vacant          | 0.90 |
| 189-000329408   | 849321  | Vacant          | 0.98 |
| 189-000329408   | 1583637 | Vacant          | 1.04 |
| 189-000329409   | 1549513 | Vacant          | 1.13 |
| 189-000329410   | 859936  | Vacant          | 0.99 |
| 189-000329415   | 931017  | Vacant          | 1.08 |
| 189-000329416   | 1047383 | Vacant          | 1.16 |
| 189-000329417   | 955308  | Vacant          | 1.38 |
| 189-000336302   | 2033874 | Vacant          | 1.11 |
| 189-000604103   | 1503934 | Vacant          | 0.75 |
| 189-001302401   | 1519028 | Vacant          | 1.00 |
| 189-001302402   | 1555354 | Vacant          | 1.03 |
| REGBE-404001300 | 2029368 | Vacant          | 1.78 |
| REGBE-404001350 | 1572673 | Vacant          | 0.91 |
| REGBE-404005000 | 1577739 | Improved        | 0.93 |
| REGBE-404005750 | 2215170 | Vacant          | 1.98 |
| REGBE-404007400 | 2114726 | Improved        | 1.39 |
| REGBE-404008150 | 1565631 | Improved        | 1.32 |
| REGBE-404008400 | 903665  | Vacant          | 1.26 |
| REGBE-404011250 | 932126  | Vacant          | 0.93 |
| REGBE-404012100 | 1566541 | Vacant          | 0.80 |
| REGBE-404012200 | 1562204 | Vacant          | 0.96 |
| REGBE-404013800 | 2003138 | Improved        | 1.33 |
| REGBE-404017840 | 2076670 | Vacant          | 0.84 |
| REGBE-404019000 | 1564740 | Improved        | 1.59 |
| REGBE-404019500 | 845672  | Vacant          | 1.07 |
| REGBE-404020000 | 1580516 | Improved        | 0.94 |
| REGBE-404020100 | 833746  | Vacant          | 1.33 |
| REGBE-404020100 | 1570394 | Improved        | 0.95 |
| REGBE-404020550 | 1573534 | Improved        | 0.82 |
| REGBE-404100780 | 2070931 | Improved        | 0.98 |
| REGBE-404101000 | 1536620 | Improved        | 1.08 |
| REGBE-404101150 | 2199844 | Improved        | 0.93 |
| REGBE-404101350 | 2202421 | Improved        | 1.00 |
| REGBE-404101650 | 2210267 | Improved        | 0.85 |
| REGBE-404103250 | 2185004 | Improved        | 1.51 |
| REGBE-404103600 | 1517230 | Improved        | 0.88 |
| REGBE-404103950 | 2092132 | Improved        | 1.00 |
| REGBE-404105000 | 2217628 | Improved        | 1.18 |
| REGBE-404105250 | 2070478 | Improved        | 0.88 |
| REGBE-404105700 | 1575255 | Improved        | 1.00 |
| REGBE-404105700 | 2092133 | Improved        | 1.08 |
| REGBE-404106950 | 2010509 | Improved        | 1.07 |

|                 |         |          |      |
|-----------------|---------|----------|------|
| REGBE-404107300 | 1052419 | Improved | 1.71 |
| REGBE-404107500 | 2208295 | Improved | 0.81 |
| REGBE-404107700 | 2201329 | Improved | 1.01 |
| REGBE-404108050 | 1529892 | Improved | 0.96 |
| REGBE-404108900 | 2214783 | Improved | 0.97 |
| REGBE-404109300 | 2158426 | Improved | 1.64 |
| REGBE-404109600 | 2075970 | Improved | 1.24 |
| REGBE-404109650 | 2209837 | Improved | 1.28 |
| REGBE-404109850 | 1519830 | Improved | 1.02 |
| REGBE-404109900 | 2158425 | Improved | 0.99 |
| REGBE-404111000 | 2029369 | Improved | 0.94 |
| REGBE-404111350 | 2079273 | Improved | 1.01 |
| REGBE-404112600 | 2018664 | Improved | 1.10 |
| REGBE-404112950 | 2210878 | Improved | 0.97 |
| REGBE-404117150 | 2032923 | Improved | 0.90 |
| REGBE-404120050 | 1504654 | Improved | 1.01 |
| REGBE-404120050 | 2185433 | Improved | 0.98 |
| REGBE-404120250 | 828789  | Vacant   | 1.00 |
| REGBE-404120300 | 835176  | Vacant   | 1.00 |
| REGBE-404120300 | 1582208 | Improved | 0.93 |
| REGBE-404120350 | 860856  | Vacant   | 1.00 |
| REGBE-404121300 | 1500444 | Improved | 0.78 |
| REGBE-404201600 | 1027290 | Improved | 0.96 |
| REGBE-404201700 | 1528945 | Improved | 1.32 |
| REGBE-404201750 | 2215982 | Improved | 0.97 |
| REGBE-404202350 | 2056052 | Improved | 0.99 |
| REGBE-404202900 | 2018660 | Improved | 0.96 |
| REGBE-404203200 | 2214231 | Improved | 1.11 |
| REGBE-404203500 | 2004939 | Improved | 1.06 |
| REGBE-404207850 | 2075967 | Improved | 1.09 |
| REGBE-404208100 | 809738  | Vacant   | 1.05 |
| REGBE-404208150 | 1512093 | Improved | 1.12 |
| REGBE-404208200 | 2234029 | Improved | 0.99 |
| REGBE-404208250 | 2147936 | Improved | 1.06 |
| REGBE-404209150 | 1569459 | Improved | 1.01 |
| REGBE-404209450 | 1572048 | Improved | 0.95 |
| REGBE-404209850 | 1571154 | Improved | 1.19 |
| REGBE-404211350 | 1564741 | Improved | 1.05 |
| REGBE-404211400 | 1505733 | Improved | 0.95 |
| REGBE-404212300 | 1566538 | Improved | 0.85 |
| REGBE-404212850 | 1522424 | Improved | 1.00 |
| REGBE-404212900 | 856718  | Vacant   | 1.34 |
| REGBE-404214000 | 2147938 | Improved | 1.37 |
| REGBE-404214200 | 1548144 | Improved | 0.97 |
| REGBE-404215250 | 1572047 | Improved | 1.04 |
| REGBE-404215300 | 2223398 | Improved | 1.17 |
| REGBE-404215550 | 2075968 | Improved | 1.13 |
| REGBE-404216300 | 1053261 | Improved | 0.87 |
| REGBE-404216850 | 2204747 | Improved | 0.96 |
| REGBE-404218850 | 2041775 | Improved | 0.85 |
| REGBE-404220100 | 2218973 | Improved | 1.15 |
| REGBE-404220200 | 1519829 | Improved | 1.39 |
| REGBE-404220550 | 2147937 | Improved | 0.89 |

|                 |         |          |      |
|-----------------|---------|----------|------|
| REGBE-404220600 | 1509297 | Improved | 0.95 |
| REGBE-404221250 | 1570395 | Improved | 0.97 |
| REGBE-404221700 | 1544863 | Improved | 1.00 |
| REGBE-404223050 | 2101594 | Improved | 1.22 |
| REGBE-404223100 | 1565632 | Improved | 0.94 |
| REGBE-404224100 | 2056055 | Improved | 1.00 |
| REGBE-404224200 | 1527144 | Improved | 0.93 |
| REGBE-404224450 | 1513565 | Improved | 1.08 |
| REGBE-404225050 | 2082042 | Improved | 0.89 |
| REGBE-404225100 | 1518048 | Improved | 0.98 |
| REGBE-404225150 | 2078567 | Improved | 0.75 |
| REGBE-404225450 | 1567556 | Improved | 0.72 |
| REGBE-404225850 | 2056054 | Improved | 1.04 |
| ASSIN-505003351 | 2051606 | Improved | 0.84 |
| ASSIN-505003353 | 2051608 | Improved | 1.00 |
| ASSIN-505003355 | 1520219 | Improved | 0.98 |
| ASSIN-505003356 | 1540752 | Improved | 0.99 |
| ASSIN-505003357 | 2222796 | Improved | 1.09 |
| ASSIN-505003358 | 2051610 | Improved | 1.11 |
| BIRCH-505118205 | 1540200 | Improved | 1.47 |
| BIRCH-505118301 | 1572408 | Improved | 1.28 |
| BIRCH-505118302 | 1568158 | Improved | 0.87 |
| BIRCH-505118307 | 1574096 | Improved | 0.98 |
| BIRCH-505118401 | 1578339 | Improved | 0.99 |
| CARON-505003515 | 1517645 | Improved | 1.27 |
| CARON-505003517 | 2056774 | Improved | 0.90 |
| CARON-505003519 | 2220704 | Improved | 1.62 |
| CARON-505003521 | 1542607 | Improved | 0.99 |
| CARON-505003522 | 1514112 | Improved | 0.91 |
| DALME-505025802 | 2016512 | Improved | 1.02 |
| DALME-505025808 | 1540754 | Improved | 1.23 |
| DALME-505025809 | 2205508 | Improved | 1.08 |
| DALME-505025812 | 1544525 | Improved | 0.86 |
| DALME-505025812 | 2223801 | Improved | 0.99 |
| ELBOW-505041503 | 1571814 | Improved | 1.07 |
| ELBOW-505041514 | 1571815 | Improved | 0.99 |
| ELBOW-505041517 | 2078135 | Improved | 1.27 |
| ELBOW-505041527 | 1569006 | Improved | 1.00 |
| ELBOW-505041531 | 2210111 | Improved | 0.80 |
| ELBOW-505041532 | 2210113 | Improved | 0.88 |
| ESTEV-485007118 | 1540234 | Improved | 0.91 |
| ESTEV-485007120 | 1058571 | Improved | 1.01 |
| ESTEV-485007122 | 1057583 | Improved | 0.99 |
| ESTEV-485007146 | 1524198 | Improved | 1.00 |
| ESTEV-495020360 | 2180984 | Improved | 1.14 |
| ESTEV-495020362 | 2221838 | Improved | 0.85 |
| ESTEV-495114554 | 1539388 | Improved | 0.98 |
| ESTEV-495114563 | 2016504 | Improved | 1.01 |
| ESTEV-495122512 | 2002802 | Improved | 1.01 |
| ESTEV-495122517 | 2102245 | Improved | 0.86 |
| ESTEV-495122518 | 1055490 | Improved | 0.92 |
| ESTEV-495122520 | 2016844 | Improved | 0.99 |
| ESTEV-495122522 | 2065680 | Improved | 1.02 |

|                  |         |          |      |
|------------------|---------|----------|------|
| ESTEVE-495122529 | 1583639 | Improved | 1.00 |
| ESTEVE-504912726 | 1564484 | Improved | 0.92 |
| ESTEVE-504912728 | 1518612 | Improved | 1.06 |
| ESTEVE-504912729 | 1524105 | Improved | 1.14 |
| ESTEVE-504912736 | 1511114 | Improved | 0.96 |
| ESTEVE-504912741 | 1566140 | Improved | 0.87 |
| ESTEVE-504912746 | 1058514 | Improved | 1.03 |
| ESTEVE-504912813 | 1563502 | Improved | 1.04 |
| ESTEVE-504912815 | 1580881 | Improved | 1.28 |
| ESTEVE-504912816 | 1509058 | Improved | 0.98 |
| ESTEVE-504912817 | 2102220 | Improved | 0.95 |
| ESTEVE-504912829 | 2180268 | Improved | 0.99 |
| ESTEVE-505021201 | 1568101 | Improved | 1.06 |
| ESTEVE-505021204 | 1500761 | Improved | 0.93 |
| ESTEVE-505205206 | 2016500 | Improved | 0.99 |
| ESTEVE-505215007 | 1574101 | Improved | 0.95 |
| ESTEVE-505215020 | 1569043 | Improved | 1.00 |
| ESTEVE-505215033 | 2083131 | Improved | 1.09 |
| ESTEVE-505216002 | 1543580 | Improved | 0.92 |
| ESTEVE-505216004 | 1537126 | Improved | 0.89 |
| ESTEVE-505216013 | 2008188 | Improved | 1.05 |
| ESTEVE-505216015 | 2056858 | Improved | 0.99 |
| ESTEVE-505216018 | 1516994 | Improved | 1.05 |
| ESTEVE-505217009 | 2213171 | Improved | 1.00 |
| ESTEVE-505217012 | 2074640 | Improved | 0.88 |
| ESTEVE-505217031 | 1579306 | Improved | 1.03 |
| ESTEVE-525201652 | 2195064 | Improved | 0.75 |
| ESTEVE-525201654 | 2019341 | Improved | 1.24 |
| FORTQ-505005612  | 1528679 | Improved | 1.00 |
| FORTQ-505019553  | 2110575 | Improved | 1.01 |
| FORTQ-505019555  | 2232191 | Improved | 0.98 |
| FORTQ-505019556  | 1521160 | Improved | 0.88 |
| FORTQ-505019557  | 2179984 | Improved | 1.22 |
| FORTQ-505019561  | 1576471 | Improved | 1.02 |
| FORTQ-505019562  | 2205107 | Improved | 0.97 |
| FORTQ-505200404  | 2221428 | Improved | 0.99 |
| HUMBO-495033502  | 1511103 | Improved | 0.93 |
| HUMBO-495033507  | 2051602 | Improved | 0.99 |
| HUMBO-495033509  | 2191223 | Improved | 1.04 |
| HUMBO-495033510  | 2203789 | Improved | 1.00 |
| HUMBO-495046701  | 2007200 | Improved | 1.35 |
| HUMBO-495046701  | 2236704 | Improved | 1.33 |
| HUMBO-495046702  | 1552771 | Improved | 1.08 |
| HUMBO-495046703  | 1552765 | Improved | 0.96 |
| HUMBO-495046704  | 1552766 | Improved | 0.94 |
| HUMBO-495046705  | 1552789 | Improved | 0.99 |
| HUMBO-495046706  | 1552772 | Improved | 1.04 |
| HUMBO-495046707  | 1552773 | Improved | 0.97 |
| HUMBO-495046708  | 1552767 | Improved | 1.02 |
| HUMBO-495046709  | 1552774 | Improved | 1.04 |
| HUMBO-495046710  | 1552775 | Improved | 1.07 |
| HUMBO-495046710  | 2214547 | Improved | 1.33 |
| HUMBO-495046711  | 1552776 | Improved | 0.92 |

|                 |         |          |      |
|-----------------|---------|----------|------|
| HUMBO-495046712 | 1552768 | Improved | 0.88 |
| HUMBO-495046713 | 1552777 | Improved | 0.97 |
| HUMBO-495046714 | 1552788 | Improved | 0.98 |
| HUMBO-495046715 | 1552769 | Improved | 1.09 |
| HUMBO-495046716 | 1552778 | Improved | 0.97 |
| HUMBO-495046717 | 1552779 | Improved | 0.93 |
| HUMBO-495046718 | 1552786 | Improved | 0.89 |
| HUMBO-495046719 | 1552780 | Improved | 0.95 |
| HUMBO-495046720 | 1552783 | Improved | 0.82 |
| HUMBO-495046721 | 1552784 | Improved | 0.87 |
| HUMBO-495046722 | 1552781 | Improved | 0.87 |
| HUMBO-495046726 | 2181966 | Improved | 1.10 |
| HUMBO-495046728 | 2207114 | Improved | 1.20 |
| HUMBO-495046729 | 2017865 | Improved | 1.12 |
| HUMBO-495046730 | 2017869 | Improved | 1.04 |
| HUMBO-495046734 | 2074695 | Improved | 1.09 |
| HUMBO-495046740 | 2017891 | Improved | 1.06 |
| HUMBO-495046741 | 2074697 | Improved | 1.14 |
| HUMBO-495046743 | 2017899 | Improved | 0.95 |
| HUMBO-495046744 | 2216590 | Improved | 1.00 |
| HUMBO-495100371 | 2182490 | Improved | 1.06 |
| HUMBO-495100375 | 1058542 | Improved | 0.97 |
| HUMBO-495100388 | 2180264 | Improved | 0.99 |
| HUMBO-495100414 | 1542623 | Improved | 0.84 |
| HUMBO-495100420 | 1512205 | Improved | 0.91 |
| HUMBO-495100422 | 2053973 | Improved | 1.09 |
| HUMBO-495100422 | 2207445 | Improved | 1.08 |
| HUMBO-495100431 | 2180124 | Improved | 1.04 |
| HUMBO-495100432 | 2220628 | Improved | 0.95 |
| HUMBO-495112301 | 2076758 | Improved | 0.94 |
| HUMBO-495112303 | 1547780 | Improved | 0.78 |
| HUMBO-495112305 | 1542627 | Improved | 0.73 |
| HUMBO-495112311 | 1565256 | Improved | 0.78 |
| HUMBO-495112318 | 2201195 | Improved | 1.31 |
| HUMBO-495112333 | 1576494 | Improved | 0.99 |
| HUMBO-495112339 | 2226988 | Improved | 0.96 |
| HUMBO-495112340 | 2224887 | Improved | 1.11 |
| HUMBO-495112341 | 1500793 | Improved | 1.16 |
| HUMBO-495112345 | 2206422 | Improved | 1.28 |
| HUMBO-495112360 | 2003659 | Improved | 0.97 |
| HUMBO-495112369 | 2065684 | Improved | 0.97 |
| HUMBO-495112370 | 2179419 | Improved | 1.00 |
| HUMBO-495112372 | 1551430 | Improved | 1.28 |
| HUMBO-495112382 | 2205863 | Improved | 1.11 |
| HUMBO-495112387 | 1575914 | Improved | 1.01 |
| HUMBO-505012605 | 2198071 | Improved | 1.02 |
| HUMBO-505012611 | 1542602 | Improved | 0.98 |
| HUMBO-505012611 | 2198156 | Improved | 0.95 |
| HUMBO-505012618 | 1552563 | Improved | 1.03 |
| HUMBO-505012622 | 1556736 | Improved | 1.01 |
| HUMBO-505012623 | 1558040 | Improved | 0.97 |
| HUMBO-505013503 | 1531488 | Improved | 1.01 |
| HUMBO-505013504 | 1580866 | Improved | 0.99 |

|                 |         |          |      |
|-----------------|---------|----------|------|
| HUMBO-505016411 | 2202571 | Improved | 1.19 |
| HUMBO-505016417 | 2194766 | Improved | 1.14 |
| HUMBO-505016420 | 2223692 | Improved | 1.06 |
| HUMBO-505016423 | 1533404 | Improved | 0.89 |
| HUMBO-505016424 | 1522938 | Improved | 0.91 |
| HUMBO-505016452 | 1526733 | Improved | 0.95 |
| HUMBO-505016456 | 2179845 | Improved | 1.00 |
| HUMBO-505104805 | 1546173 | Improved | 0.86 |
| HUMBO-505104810 | 2239815 | Improved | 1.05 |
| HUMBO-505104814 | 1516128 | Improved | 0.94 |
| HUMBO-505104815 | 2237802 | Improved | 1.35 |
| HUMBO-505107711 | 1575856 | Improved | 1.09 |
| HUMBO-505107712 | 1055465 | Improved | 0.95 |
| HUMBO-505107719 | 2202131 | Improved | 1.13 |
| HUMBO-505107752 | 1527776 | Improved | 1.00 |
| HUMBO-505107753 | 2182262 | Improved | 0.92 |
| INDIA-404118690 | 2203368 | Improved | 0.98 |
| INDIA-404118693 | 2017229 | Improved | 1.01 |
| INDIA-404118772 | 2203369 | Improved | 0.41 |
| INDIA-404118788 | 2017543 | Improved | 0.62 |
| KINDE-001006151 | 1575858 | Improved | 0.93 |
| KINDE-001006161 | 2078412 | Improved | 1.06 |
| KINDE-001007231 | 1572365 | Improved | 0.99 |
| KINDE-001007231 | 2220322 | Improved | 0.83 |
| KINDE-001007232 | 1571817 | Improved | 0.94 |
| KINDE-001007233 | 1509911 | Improved | 1.03 |
| KINDE-001007234 | 1502846 | Improved | 1.19 |
| KINDE-001010181 | 2228305 | Improved | 1.00 |
| KINDE-001010182 | 2209749 | Improved | 0.87 |
| KINDE-001010188 | 1574052 | Improved | 0.99 |
| KINDE-001010189 | 2219061 | Improved | 1.01 |
| KINDE-002011202 | 1527827 | Improved | 1.00 |
| KINDE-002011202 | 2125304 | Improved | 1.02 |
| KINDE-002011205 | 1524133 | Improved | 1.00 |
| KINDE-002011207 | 1527828 | Improved | 0.93 |
| KINDE-002011208 | 1571863 | Improved | 1.02 |
| KINDE-002011211 | 2203501 | Improved | 1.03 |
| KINDE-002011213 | 2076739 | Improved | 0.99 |
| KINDE-003012163 | 1509020 | Improved | 0.85 |
| KINDE-003012167 | 1551392 | Improved | 0.99 |
| KINDE-003012172 | 1056726 | Improved | 1.02 |
| KINDE-006006605 | 2051643 | Improved | 0.92 |
| KINDE-006006607 | 2183818 | Improved | 0.90 |
| KINDE-006006617 | 1569033 | Improved | 0.98 |
| KINDE-006006620 | 2080658 | Improved | 1.12 |
| KINDE-006006622 | 1577545 | Improved | 0.72 |
| KINDE-006006622 | 2145072 | Improved | 1.87 |
| KINDE-006006628 | 1546859 | Improved | 1.07 |
| KINDE-006006630 | 2196104 | Improved | 1.01 |
| KINDE-006006639 | 2234682 | Improved | 0.97 |
| KINDE-006006641 | 1575898 | Improved | 1.33 |
| KINDE-006006645 | 2115327 | Improved | 1.00 |
| KINDE-006006652 | 1503946 | Improved | 0.97 |

|                 |         |          |      |
|-----------------|---------|----------|------|
| KINDE-006006655 | 1580198 | Improved | 1.04 |
| KINDE-006006657 | 2125305 | Improved | 0.95 |
| KINDE-006006670 | 1547771 | Improved | 1.05 |
| KINDE-006006681 | 1580200 | Improved | 1.01 |
| KINDE-006006683 | 2002801 | Improved | 0.95 |
| LANGE-505016710 | 1556880 | Improved | 1.00 |
| LANGE-505016711 | 1556881 | Improved | 1.00 |
| LANGE-505016712 | 1556882 | Improved | 1.07 |
| LANGE-505016713 | 1556883 | Improved | 0.96 |
| LARON-505029153 | 2017569 | Improved | 0.90 |
| LARON-505029156 | 1575017 | Improved | 1.02 |
| LARON-505029158 | 2017571 | Improved | 1.03 |
| LARON-505029160 | 2017573 | Improved | 0.97 |
| LARON-505029165 | 1559431 | Improved | 2.50 |
| LARON-505029166 | 1559430 | Improved | 2.50 |
| LUMSD-890000102 | 2100047 | Improved | 0.88 |
| LUMSD-890000103 | 1524977 | Improved | 1.05 |
| LUMSD-890000104 | 1579274 | Improved | 1.00 |
| LUMSD-890000106 | 2148239 | Improved | 1.06 |
| LUMSD-890000110 | 1568131 | Improved | 1.00 |
| LUMSD-890000110 | 2227143 | Improved | 1.00 |
| LUMSD-890000120 | 2228488 | Improved | 0.98 |
| LUMSD-890000121 | 1516956 | Improved | 0.93 |
| MARTE-495006801 | 1582618 | Improved | 1.04 |
| MARTE-495006811 | 2080612 | Improved | 1.18 |
| MARTE-495006817 | 1052970 | Improved | 0.94 |
| MARTE-495006818 | 2001898 | Improved | 0.87 |
| MARTE-495006820 | 1532502 | Improved | 0.99 |
| MARTE-495006822 | 1502843 | Improved | 0.91 |
| MARTE-495006826 | 1583601 | Improved | 1.08 |
| MARTE-495006826 | 2077844 | Improved | 1.00 |
| MARTE-495200151 | 1524424 | Improved | 1.07 |
| MARTE-495200152 | 2056914 | Improved | 1.04 |
| MARTE-495200154 | 1524426 | Improved | 1.02 |
| MARTE-495200155 | 1568208 | Improved | 1.10 |
| MARTE-495200156 | 1524433 | Improved | 1.10 |
| MARTE-495200157 | 1577448 | Improved | 1.00 |
| MARTE-495200158 | 1524438 | Improved | 0.98 |
| MARTE-495200158 | 2210075 | Improved | 0.97 |
| MARTE-495200159 | 2210383 | Improved | 0.99 |
| MARTE-495200160 | 2189627 | Improved | 1.05 |
| MARTE-495200161 | 1563567 | Improved | 0.95 |
| MARTE-495200162 | 1524428 | Improved | 0.98 |
| MARTE-495200163 | 1573179 | Improved | 0.99 |
| MARTE-495200164 | 1524429 | Improved | 1.03 |
| MARTE-495200165 | 2045366 | Improved | 0.99 |
| MARTE-495200166 | 1524435 | Improved | 1.00 |
| MARTE-495200171 | 1569084 | Improved | 0.98 |
| MARTE-495200172 | 2207604 | Improved | 1.09 |
| MARTE-495200173 | 1524427 | Improved | 0.98 |
| MARTE-495200173 | 2222725 | Improved | 0.93 |
| MARTE-505006104 | 1569004 | Improved | 1.07 |
| MARTE-505006131 | 1537111 | Improved | 0.88 |

|                 |         |          |      |
|-----------------|---------|----------|------|
| MARTE-505006140 | 2110601 | Improved | 1.10 |
| MARTE-505006141 | 1519510 | Improved | 0.99 |
| MARTE-505006146 | 1564507 | Improved | 0.95 |
| MARTE-505006148 | 2202084 | Improved | 1.00 |
| MARTE-515020181 | 1055533 | Improved | 1.00 |
| MARTE-515020188 | 1056788 | Improved | 0.99 |
| MARTE-515020189 | 1509111 | Improved | 0.99 |
| MARTE-515020192 | 1501887 | Improved | 1.15 |
| MARTE-515020197 | 1537406 | Improved | 0.99 |
| MARTE-515020198 | 1537407 | Improved | 0.99 |
| MARTE-515020199 | 1537408 | Improved | 0.99 |
| MARTE-515020201 | 1537275 | Improved | 1.15 |
| MARTE-515020209 | 2003948 | Improved | 1.25 |
| MELFO-101001208 | 2022951 | Improved | 0.92 |
| MELFO-101001402 | 2115292 | Improved | 1.03 |
| MELFO-101001404 | 1513134 | Improved | 0.99 |
| MELFO-101001406 | 2240551 | Improved | 1.05 |
| MELFO-101001407 | 1583600 | Improved | 0.82 |
| MELFO-101003107 | 1512144 | Improved | 0.93 |
| MELFO-101003107 | 2218998 | Improved | 0.94 |
| MELFO-101003108 | 2231540 | Improved | 1.00 |
| MELFO-101003304 | 2207739 | Improved | 1.09 |
| MELFO-101003306 | 1560551 | Improved | 1.07 |
| MELFO-101004302 | 1558042 | Improved | 0.98 |
| MELFO-101004405 | 2040552 | Improved | 1.24 |
| MELFO-101004408 | 1529352 | Improved | 0.99 |
| MELFO-101007101 | 1052066 | Improved | 0.88 |
| MELFO-101007102 | 2016784 | Improved | 1.08 |
| MELFO-101007104 | 1052980 | Improved | 0.93 |
| MELFO-101007105 | 1511140 | Improved | 0.91 |
| MELFO-101007107 | 1580193 | Improved | 0.99 |
| MELFO-101007203 | 2016786 | Improved | 1.01 |
| MELFO-101007204 | 2148240 | Improved | 1.00 |
| MELFO-101007208 | 2226904 | Improved | 1.01 |
| MELFO-101008004 | 1570866 | Improved | 0.84 |
| MELFO-101008014 | 1544567 | Improved | 1.15 |
| MELVI-495109309 | 2202663 | Improved | 1.00 |
| MELVI-495109339 | 1567249 | Improved | 1.04 |
| MELVI-495109382 | 2180623 | Improved | 1.15 |
| MELVI-495109425 | 2180624 | Improved | 1.00 |
| MELVI-495109467 | 1567252 | Improved | 0.83 |
| OUTLO-505038803 | 2214774 | Improved | 1.02 |
| OUTLO-505038804 | 2189566 | Improved | 1.05 |
| OUTLO-505038806 | 1529360 | Improved | 0.97 |
| OUTLO-505038806 | 2125254 | Improved | 0.94 |
| OUTLO-505038811 | 2227731 | Improved | 1.01 |
| OUTLO-505038812 | 2244547 | Improved | 1.05 |
| OUTLO-505038813 | 1565221 | Improved | 0.98 |
| OUTLO-505038816 | 2078309 | Improved | 0.97 |
| REGBE-404017852 | 1527779 | Improved | 0.99 |
| REGBE-404017854 | 2216296 | Improved | 1.14 |
| REGBE-404017855 | 2212320 | Improved | 0.98 |
| ROSET-505006954 | 2203243 | Improved | 1.03 |



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|-----------------|---------|----------|------|
| ROSET-505006961 | 1548631 | Improved | 0.96 |
| ROSET-505010503 | 1540178 | Improved | 0.99 |
| ROSET-505010505 | 1538212 | Improved | 0.93 |
| ROSET-505010505 | 2183359 | Improved | 1.02 |
| ROSET-505010508 | 2201153 | Improved | 0.99 |
| ROSET-505010605 | 1531496 | Improved | 0.89 |
| ROSET-505010605 | 2212859 | Improved | 0.87 |
| ROSET-505010607 | 1512153 | Improved | 1.15 |
| ROSET-505010607 | 1558049 | Improved | 1.10 |
| ROSET-505011302 | 1571810 | Improved | 1.00 |
| ROSET-505011305 | 1575859 | Improved | 0.92 |
| ROSET-505011309 | 2189665 | Improved | 1.06 |
| ROSET-505016102 | 1052967 | Improved | 1.00 |
| ROSET-505016105 | 1501822 | Improved | 1.07 |
| ROSET-505016109 | 2183006 | Improved | 0.88 |
| ROSET-505016110 | 2226913 | Improved | 0.96 |
| ROSET-505016111 | 2186869 | Improved | 1.35 |
| ROSTH-504916602 | 1558135 | Improved | 0.95 |
| ROSTH-504916603 | 1552665 | Improved | 1.08 |
| ROSTH-504916607 | 2040665 | Improved | 0.99 |
| ROSTH-504916609 | 1558136 | Improved | 1.00 |
| ROSTH-504916610 | 1546889 | Improved | 0.99 |
| ROSTH-504916612 | 1573211 | Improved | 1.02 |
| ROSTH-505008751 | 2180545 | Improved | 1.05 |
| ROSTH-505008752 | 1519529 | Improved | 1.28 |
| ROSTH-505008754 | 1568167 | Improved | 1.11 |
| ROSTH-505008755 | 2102270 | Improved | 1.26 |
| ROSTH-505008755 | 2226995 | Improved | 1.32 |
| ROSTH-505008756 | 1509077 | Improved | 1.18 |
| ROSTH-505008757 | 1509078 | Improved | 1.20 |
| ROSTH-505008760 | 1055499 | Improved | 1.07 |
| ROSTH-505008768 | 1543573 | Improved | 1.07 |
| ROSTH-505008771 | 2065691 | Improved | 1.17 |
| STBRI-505013802 | 2102192 | Improved | 0.77 |
| STBRI-505013805 | 2213994 | Improved | 1.00 |
| STBRI-505013808 | 1552565 | Improved | 1.04 |
| TISDA-505005101 | 2007123 | Improved | 1.06 |
| TISDA-505005104 | 2017139 | Improved | 1.03 |
| TISDA-505005105 | 2017141 | Improved | 0.99 |
| TISDA-505005109 | 2194999 | Improved | 0.99 |
| TISDA-505005111 | 2203085 | Improved | 0.93 |
| TISDA-505033301 | 2182809 | Improved | 1.07 |
| TISDA-505033302 | 1574123 | Improved | 1.15 |
| TISDA-505033305 | 2033699 | Improved | 0.95 |
| TISDA-505033306 | 2205565 | Improved | 1.03 |
| TISDA-505033312 | 1524185 | Improved | 0.96 |
| TISDA-505033314 | 1530468 | Improved | 0.79 |
| TISDA-505036010 | 1531560 | Improved | 0.80 |
| TISDA-505036018 | 1534285 | Improved | 0.97 |
| TISDA-505036043 | 1526004 | Improved | 1.00 |
| TISDA-505036070 | 2195219 | Improved | 1.12 |
| WARMA-484700004 | 2193698 | Improved | 1.10 |
| WARMA-484700005 | 1517001 | Improved | 0.89 |

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|-----------------|---------|----------|------|
| WARMA-484700014 | 2079756 | Improved | 1.00 |
| WARMA-484700016 | 2234398 | Improved | 0.96 |
| WARMA-484700021 | 2208187 | Improved | 1.03 |
| WARMA-484700025 | 2079757 | Improved | 1.08 |
| WARMA-484700035 | 1517710 | Improved | 0.94 |
| WARMA-484800070 | 1583625 | Improved | 1.03 |
| WARMA-484800071 | 2016738 | Improved | 1.04 |
| WARMA-484800072 | 1548648 | Improved | 0.91 |
| WARMA-484800078 | 2220170 | Improved | 0.99 |
| WARMA-484800079 | 1574943 | Improved | 0.91 |
| WARMA-484800082 | 2190889 | Improved | 1.00 |
| WARMA-484800083 | 2056808 | Improved | 1.09 |
| WARMA-484800085 | 2236073 | Improved | 1.05 |
| WARMA-484800088 | 1515246 | Improved | 0.93 |
| WARMA-484800090 | 1520248 | Improved | 0.95 |
| WARMA-484800090 | 1563504 | Improved | 0.94 |
| WARMA-484800095 | 1505165 | Improved | 1.06 |
| WARMA-484800095 | 1574073 | Improved | 1.05 |
| WARMA-484800097 | 1509060 | Improved | 1.04 |
| WARMA-484800101 | 1506669 | Improved | 0.97 |
| WARMA-484800104 | 2004721 | Improved | 0.98 |
| WARMA-484800105 | 1517679 | Improved | 0.90 |
| WARMA-484800106 | 2228057 | Improved | 1.01 |
| WARMA-494906103 | 2197490 | Improved | 1.09 |
| WARMA-494906109 | 1527781 | Improved | 0.87 |
| WARMA-494906111 | 2225049 | Improved | 1.10 |
| WARMA-494906113 | 2209728 | Improved | 0.97 |
| WARMA-494906116 | 1506630 | Improved | 1.02 |
| WARMA-494906120 | 2218746 | Improved | 0.84 |
| WARMA-494910509 | 1515248 | Improved | 0.97 |
| WARMA-494910521 | 1530431 | Improved | 0.95 |
| WARMA-494910524 | 1522965 | Improved | 1.07 |
| WARMA-494910528 | 1501836 | Improved | 1.09 |
| WARMA-494910548 | 2181680 | Improved | 1.02 |
| WARMA-494910565 | 2227911 | Improved | 0.96 |
| WATRO-505046453 | 1524956 | Improved | 1.00 |
| WATRO-505060153 | 1532494 | Improved | 1.01 |
| WATRO-505060153 | 1559197 | Improved | 0.98 |
| WATRO-505073906 | 2188377 | Improved | 0.99 |
| WEYBU-485008405 | 2065724 | Improved | 0.92 |
| WEYBU-485008413 | 1522143 | Improved | 1.04 |
| WEYBU-485008418 | 1518708 | Improved | 1.02 |
| WEYBU-485008423 | 1531562 | Improved | 0.97 |
| WEYBU-485009547 | 2235907 | Improved | 1.00 |
| WEYBU-494828516 | 1049161 | Improved | 1.08 |
| WEYBU-494828532 | 1050857 | Improved | 0.91 |
| WEYBU-494913615 | 2222806 | Improved | 1.00 |
| WEYBU-494913772 | 2221449 | Improved | 1.03 |
| WEYBU-494913778 | 1533442 | Improved | 0.87 |
| WEYBU-494913780 | 2100078 | Improved | 0.96 |
| WEYBU-494913780 | 2214660 | Improved | 1.06 |
| WEYBU-494913810 | 1503968 | Improved | 1.11 |
| WEYBU-494913814 | 1572417 | Improved | 0.95 |

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|-----------------|---------|----------|------|
| WEYBU-494913817 | 1563542 | Improved | 0.99 |
| WEYBU-495000208 | 1564469 | Improved | 1.00 |
| WEYBU-495000257 | 1052991 | Improved | 1.00 |
| WEYBU-504933407 | 1052961 | Improved | 0.99 |
| WEYBU-504934411 | 2125287 | Improved | 1.04 |
| WEYBU-504934420 | 1571843 | Improved | 0.95 |
| WEYBU-505000305 | 2077232 | Improved | 1.00 |
| WEYBU-505010701 | 1580163 | Improved | 0.99 |
| WEYBU-505010705 | 1563484 | Improved | 0.98 |
| WEYBU-505010714 | 2224168 | Improved | 1.26 |
| WEYBU-505010715 | 1537098 | Improved | 1.00 |
| WEYBU-505014851 | 2042617 | Improved | 0.99 |
| WEYBU-505014854 | 2205294 | Improved | 1.00 |
| WEYBU-505014858 | 1582602 | Improved | 1.00 |
| WEYBU-505014859 | 1530404 | Improved | 1.05 |
| WEYBU-505023453 | 2230842 | Improved | 1.57 |
| WEYBU-505023461 | 1558046 | Improved | 0.95 |
| WEYBU-505023465 | 2192737 | Improved | 1.00 |
| WEYBU-505035861 | 2042687 | Improved | 0.90 |
| WEYBU-505035866 | 2105279 | Improved | 0.89 |
| WEYBU-505035872 | 1551455 | Improved | 1.07 |
| WEYBU-505035874 | 2056904 | Improved | 0.97 |
| WEYBU-505035876 | 1512268 | Improved | 1.18 |
| WEYBU-505035882 | 1573173 | Improved | 1.02 |
| WEYBU-505036251 | 1580178 | Improved | 0.96 |
| WEYBU-505036253 | 1501835 | Improved | 1.09 |
| WEYBU-505036264 | 1527805 | Improved | 1.03 |
| WEYBU-505036269 | 2258329 | Improved | 0.71 |
| WEYBU-505036433 | 2196430 | Improved | 0.94 |
| WEYBU-505036441 | 2208129 | Improved | 1.05 |
| WEYBU-505110055 | 1524952 | Improved | 1.07 |
| WEYBU-505110057 | 1563482 | Improved | 0.96 |
| WEYBU-505110062 | 2207478 | Improved | 1.00 |
| WEYBU-505230062 | 2203415 | Improved | 1.02 |
| WEYBU-505230068 | 2033684 | Improved | 0.97 |
| WEYBU-505231032 | 2295526 | Improved | 0.99 |
| YORKT-494905010 | 2196760 | Improved | 0.98 |
| YORKT-494905020 | 2196762 | Improved | 1.10 |
| YORKT-494905030 | 2196766 | Improved | 1.15 |
| YORKT-494905040 | 2196761 | Improved | 0.98 |
| YORKT-494905050 | 2017585 | Improved | 1.17 |
| YORKT-494905060 | 2196763 | Improved | 1.10 |
| YORKT-494905070 | 2196764 | Improved | 1.10 |
| YORKT-494905080 | 2196769 | Improved | 1.10 |
| YORKT-494905080 | 2201771 | Improved | 0.94 |
| YORKT-494905090 | 2191136 | Improved | 0.96 |
| YORKT-494905090 | 2196767 | Improved | 1.10 |
| YORKT-494905100 | 2196768 | Improved | 1.02 |
| YORKT-494905110 | 2196765 | Improved | 0.98 |
| YORKT-494905110 | 2226402 | Improved | 0.95 |
| YORKT-494905120 | 2196770 | Improved | 1.10 |
| YORKT-494905120 | 2219064 | Improved | 0.94 |
| YORKT-494905310 | 2192912 | Improved | 0.99 |

|                 |         |          |      |
|-----------------|---------|----------|------|
| YORKT-494905320 | 2192914 | Improved | 1.00 |
| YORKT-494905330 | 2192916 | Improved | 0.97 |
| YORKT-494905340 | 2192920 | Improved | 0.98 |
| YORKT-494905350 | 2192919 | Improved | 1.00 |
| YORKT-494905360 | 2192915 | Improved | 0.99 |
| YORKT-494905370 | 2192917 | Improved | 1.00 |
| YORKT-494905380 | 2192911 | Improved | 1.01 |
| YORKT-494905390 | 2192908 | Improved | 1.00 |
| YORKT-494905400 | 2192910 | Improved | 1.00 |
| YORKT-494905410 | 2192909 | Improved | 1.00 |
| YORKT-494905420 | 2192913 | Improved | 1.00 |
| YORKT-495200408 | 1568163 | Improved | 0.94 |
| YORKT-495200410 | 1568164 | Improved | 0.96 |
| YORKT-495200412 | 1528693 | Improved | 1.02 |
| YORKT-495200415 | 2065688 | Improved | 1.00 |
| YORKT-495200424 | 2223102 | Improved | 1.00 |
| YORKT-495200501 | 2256690 | Improved | 0.97 |
| YORKT-495200503 | 2256686 | Improved | 1.07 |
| YORKT-495200504 | 2213306 | Improved | 1.14 |
| YORKT-495200504 | 2256687 | Improved | 1.05 |
| YORKT-495200506 | 2256688 | Improved | 1.12 |
| YORKT-495200509 | 2007193 | Improved | 1.00 |
| YORKT-495200516 | 2210201 | Improved | 0.96 |
| YORKT-495200516 | 2256691 | Improved | 0.95 |
| YORKT-495200518 | 2208113 | Improved | 0.98 |
| YORKT-495200519 | 2256689 | Improved | 0.93 |
| YORKT-495200520 | 2256692 | Improved | 1.03 |
| YORKT-495200552 | 2206069 | Improved | 1.00 |
| YORKT-495200555 | 2204211 | Improved | 1.04 |
| YORKT-495200560 | 1544573 | Improved | 0.97 |
| YORKT-495200569 | 2080677 | Improved | 0.97 |
| YORKT-495200572 | 2213903 | Improved | 1.04 |
| YORKT-495200585 | 2213904 | Improved | 1.00 |
| YORKT-505000651 | 2017013 | Improved | 0.99 |
| YORKT-505008601 | 1519572 | Improved | 0.88 |
| YORKT-505008603 | 1543600 | Improved | 0.90 |
| YORKT-505008604 | 1518718 | Improved | 0.97 |
| YORKT-505008605 | 1565295 | Improved | 0.90 |
| YORKT-505008606 | 1057651 | Improved | 1.03 |
| YORKT-505008607 | 1576532 | Improved | 1.04 |
| YORKT-505008608 | 1500833 | Improved | 0.98 |
| YORKT-505008609 | 1506866 | Improved | 0.93 |
| YORKT-505008610 | 1518719 | Improved | 1.05 |
| YORKT-505008611 | 1521258 | Improved | 0.96 |
| YORKT-505008612 | 1546885 | Improved | 1.09 |
| YORKT-505008613 | 1522152 | Improved | 0.98 |
| YORKT-505008614 | 1531570 | Improved | 1.02 |
| YORKT-505008615 | 1500834 | Improved | 1.08 |
| YORKT-505008616 | 1057653 | Improved | 1.07 |
| YORKT-505008617 | 2200447 | Improved | 0.91 |
| YORKT-505008618 | 1527884 | Improved | 1.05 |
| YORKT-505008618 | 2045370 | Improved | 1.01 |
| YORKT-505008619 | 2079776 | Improved | 0.96 |

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|-----------------|---------|----------|------|
| YORKT-505008620 | 1509975 | Improved | 1.06 |
| YORKT-505008621 | 1528728 | Improved | 0.98 |
| YORKT-505008622 | 1509117 | Improved | 1.03 |
| YORKT-505008623 | 1501891 | Improved | 1.08 |
| YORKT-505008624 | 1506867 | Improved | 0.95 |
| YORKT-505113606 | 1533411 | Improved | 1.12 |
| YORKT-505113609 | 1531491 | Improved | 1.08 |
| YORKT-505113614 | 2053954 | Improved | 0.88 |
| YORKT-505113618 | 2231343 | Improved | 0.91 |
| YORKT-505113859 | 1536025 | Improved | 1.30 |
| YORKT-505113860 | 1554155 | Improved | 0.99 |
| YORKT-505113864 | 1571808 | Improved | 0.87 |
| YORKT-505114301 | 2016498 | Improved | 0.98 |
| YORKT-505114303 | 2040554 | Improved | 1.01 |
| YORKT-505120650 | 2125250 | Improved | 1.01 |
| YORKT-505120670 | 1524099 | Improved | 0.98 |
| YORKT-505122808 | 2219843 | Improved | 1.01 |
| YORKT-505122815 | 2208831 | Improved | 1.00 |
| YORKT-505122819 | 1506625 | Improved | 0.67 |