

Bridging Divides Migration Data Challenge – Data Guide

The data files for the *Bridging Divides Migration Data Challenge* (BD-MDC) are derived from two area-level data sources from Statistics Canada. The first source is the 2021 Census Profile data at the aggregate dissemination area (ADA) level ([Census Profile](#)). The second is the Spatial Access Measures file at the dissemination area block (DB) level ([Spatial Access Measures](#)). Additionally, a Geographic Attribute File is available on the Statistics Canada website for aggregating or matching different geographic levels ([Geographic Attribute File](#)). Geographic boundary files are also accessible for mapping purposes ([Spatial information products](#)). Data users can consult Statistics Canada website for the definitions of various census geography units and their hierarchical relationships ([Illustrated Glossary](#), [Hierarchy of standard geographic areas](#)).

The original Census Profile file includes estimated population and dwelling counts for 2,631 sociodemographic characteristics per ADA. For BD-MDC, this file has been simplified to retain only immigration-related characteristics and saved as an Excel file (ada_profile_simplified.xlsx). The included variables are listed in Appendix 1. BD-MDC participants requiring additional variables can retrieve them from the original file ([Census Profile](#)).

The original Spatial Access Measures file includes seven amenity categories for each DB: cultural and arts facilities (CAFs), primary and secondary educational facilities (EFs), health care facilities (HFs), places of employment (EMPs), grocery stores (GSs), postsecondary educational facilities (PSEFs), and sports and recreational facilities (SRFs). Each amenity has four accessibility variants based on transportation mode: public transit during peak hours, public transit during off-peak hours, cycling, and walking. More details on these measures are available at [Spatial Access Measures](#). For BD-MDC, the data has been simplified to retain only two transportation modes: public transit during peak hours and walking. The DB-level data has been aggregated to the ADA level, and the simplified file is saved as an Excel file (ADA_acs_file.xlsx). The included variables are listed in Appendix 2. BD-MDC participants needing additional transportation modes or different geographic levels can retrieve them from the original files.

The simplified Census Profile and Spatial Access Measures files can be linked using the ADA code (ADA_code in character format or ADA_code_n in numeric format).

In addition to these key data sources, BD-MDC participants are encouraged to incorporate other data to enhance their analyses. For instance, additional data sources are available from Statistics Canada at [Open databases](#).

Appendix 1. Variables included in the census profile file: ada_profile_simplified.xlsx

Variable	Label
ADA_code	aggregate dissemination area code, character format
ada_code_n	aggregate dissemination area code, numeric format
CMANAME	Census metropolitan area name
CMAUID	Census Metropolitan area code
CSDNAME	Census subdivision name
CSDUID	Census subdivision code
PRNAME	province/territory name
T1527	men and women: Total - Immigrant status and period of immigration
T1528	men and women: Non-immigrants
T1529	men and women: Immigrants
T1530	men and women: Immigrated before 1980
T1531	men and women: 1980 to 1990
T1532	men and women: 1991 to 2000
T1533	men and women: 2001 to 2010
T1534	men and women: 2011 to 2021
T1535	men and women: 2011 to 2015
T1536	men and women: 2016 to 2021
T1537	men and women: Non-permanent residents
T1538	men and women: Total - Age at immigration for the immigrant population
T1539	men and women: Under 5 years
T1540	men and women: 5 to 14 years
T1541	men and women: 15 to 24 years
T1542	men and women: 25 to 44 years
T1543	men and women: 45 years and over
T1544	men and women: Total - Place of birth for the immigrant population
T1545	men and women: Americas
T1546	men and women: Brazil
T1547	men and women: Colombia
T1548	men and women: El Salvador
T1549	men and women: Guyana
T1550	men and women: Haiti
T1551	men and women: Jamaica
T1552	men and women: Mexico
T1553	men and women: Peru
T1554	men and women: Trinidad and Tobago
T1555	men and women: United States of America
T1556	men and women: Other places of birth in Americas
T1557	men and women: Europe
T1558	men and women: Bosnia and Herzegovina
T1559	men and women: Croatia
T1560	men and women: France
T1561	men and women: Germany
T1562	men and women: Greece
T1563	men and women: Hungary
T1564	men and women: Italy
T1565	men and women: Netherlands
T1566	men and women: Poland
T1567	men and women: Portugal
T1568	men and women: Romania
T1569	men and women: Russian Federation
T1570	men and women: Serbia
T1571	men and women: Ukraine

T1572 men and women: United Kingdom
T1573 men and women: Other places of birth in Europe
T1574 men and women: Africa
T1575 men and women: Algeria
T1576 men and women: Congo, Democratic Republic of the
T1577 men and women: Egypt
T1578 men and women: Eritrea
T1579 men and women: Ethiopia
T1580 men and women: Morocco
T1581 men and women: Nigeria
T1582 men and women: Somalia
T1583 men and women: South Africa, Republic of
T1584 men and women: Other places of birth in Africa
T1585 men and women: Asia
T1586 men and women: Afghanistan
T1587 men and women: Iran
T1588 men and women: Iraq
T1589 men and women: Lebanon
T1590 men and women: Syria
T1591 men and women: Turkey
T1592 men and women: China
T1593 men and women: Hong Kong
T1594 men and women: Korea, South
T1595 men and women: Taiwan
T1596 men and women: Philippines
T1597 men and women: Viet Nam
T1598 men and women: Bangladesh
T1599 men and women: India
T1600 men and women: Pakistan
T1601 men and women: Sri Lanka
T1602 men and women: Other places of birth in Asia
T1603 men and women: Oceania and other places of birth
T1604 men and women: Total - Place of birth for the recent immigrant population
T1605 men and women: Americas
T1606 men and women: Brazil
T1607 men and women: Colombia
T1608 men and women: Haiti
T1609 men and women: Jamaica
T1610 men and women: Mexico
T1611 men and women: United States of America
T1612 men and women: Venezuela
T1613 men and women: Other places of birth in Americas
T1614 men and women: Europe
T1615 men and women: France
T1616 men and women: Germany
T1617 men and women: Ireland
T1618 men and women: Italy
T1619 men and women: Russian Federation
T1620 men and women: Ukraine
T1621 men and women: United Kingdom
T1622 men and women: Other places of birth in Europe
T1623 men and women: Africa
T1624 men and women: Algeria
T1625 men and women: Burundi
T1626 men and women: Cameroon
T1627 men and women: Congo, Democratic Republic of the

T1628 men and women: Côte d'Ivoire
 T1629 men and women: Egypt
 T1630 men and women: Eritrea
 T1631 men and women: Ethiopia
 T1632 men and women: Morocco
 T1633 men and women: Nigeria
 T1634 men and women: Somalia
 T1635 men and women: South Africa, Republic of
 T1636 men and women: Sudan
 T1637 men and women: Tunisia
 T1638 men and women: Other places of birth in Africa
 T1639 men and women: Asia
 T1640 men and women: Afghanistan
 T1641 men and women: Bangladesh
 T1642 men and women: China
 T1643 men and women: Hong Kong
 T1644 men and women: India
 T1645 men and women: Iran
 T1646 men and women: Iraq
 T1647 men and women: Israel
 T1648 men and women: Japan
 T1649 men and women: Jordan
 T1650 men and women: Korea, South
 T1651 men and women: Lebanon
 T1652 men and women: Nepal
 T1653 men and women: Pakistan
 T1654 men and women: Philippines
 T1655 men and women: Saudi Arabia
 T1656 men and women: Sri Lanka
 T1657 men and women: Syria
 T1658 men and women: Turkey
 T1659 men and women: United Arab Emirates
 T1660 men and women: Viet Nam
 T1661 men and women: Other places of birth in Asia
 T1662 men and women: Oceania and other
 T1663 men and women: Australia
 T1664 men and women: Other places of birth
 T1665 men and women: Total - Generation status for the population in private household
 T1666 men and women: First generation
 T1667 men and women: Second generation
 T1668 men and women: Third generation or more
 T1669 men and women: Total - Admission category and applicant type for immigrants
 T1670 men and women: Economic immigrants
 T1671 men and women: Principal applicants
 T1672 men and women: Secondary applicants
 T1673 men and women: Immigrants sponsored by family
 T1674 men and women: Refugees
 T1675 men and women: Other immigrants
 T1676 men and women: Total - Pre-admission experience for the immigrant population
 T1677 men and women: Asylum claim before admission
 T1678 men and women: Work permits only before admission
 T1679 men and women: Study permits only before admission
 T1680 men and women: Work and study permits before admission
 T1681 men and women: Other permits before admission
 T1682 men and women: No pre-admission experience
 W1527 women: Total - Immigrant status and period of immigration

W1528	women: Non-immigrants
W1529	women: Immigrants
W1530	women: Before 1980
W1531	women: 1980 to 1990
W1532	women: 1991 to 2000
W1533	women: 2001 to 2010
W1534	women: 2011 to 2021
W1535	women: 2011 to 2015
W1536	women: 2016 to 2021
W1537	women: Non-permanent residents
W1538	women: Total - Age at immigration for the immigrant population
W1539	women: Under 5 years
W1540	women: 5 to 14 years
W1541	women: 15 to 24 years
W1542	women: 25 to 44 years
W1543	women: 45 years and over
W1544	women: Total - Place of birth for the immigrant population
W1545	women: Americas
W1546	women: Brazil
W1547	women: Colombia
W1548	women: El Salvador
W1549	women: Guyana
W1550	women: Haiti
W1551	women: Jamaica
W1552	women: Mexico
W1553	women: Peru
W1554	women: Trinidad and Tobago
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W1577	women: Egypt
W1578	women: Eritrea
W1579	women: Ethiopia
W1580	women: Morocco
W1581	women: Nigeria
W1582	women: Somalia
W1583	women: South Africa, Republic of

W1584	women: Other places of birth in Africa
W1585	women: Asia
W1586	women: Afghanistan
W1587	women: Iran
W1588	women: Iraq
W1589	women: Lebanon
W1590	women: Syria
W1591	women: Turkey
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W1614	women: Europe
W1615	women: France
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W1617	women: Ireland
W1618	women: Italy
W1619	women: Russian Federation
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W1640	women: Afghanistan
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Appendix 2. Variables included in the Spatial Access Measures file: ada_acs_simplified.xlsx

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ada_code_n	aggregate dissemination area code, numeric format
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CMAUID	Census Metropolitan area code
CSDNAME	Census subdivision name
CSDUID	Census subdivision code
public_caf	access via public transit during peak hours, cultural and arts facilities
public_ef	access via public transit during peak hours, primary and secondary educational facilities
public_emp	access via public transit during peak hours, places of employment
public_gs	access via public transit during peak hours, grocery stores
public_hf	access via public transit during peak hours, health care facilities
public_psef	access via public transit during peak hours, postsecondary educational facilities
public_srf	access via public transit during peak hours, sports and recreational facilities
walk_caf	access via walking, cultural and arts facilities
walk_ef	access via walking, primary and secondary educational facilities
walk_emp	access via walking, places of employment
walk_gs	access via walking, grocery stores
walk_hf	access via walking, health care facilities
walk_psef	access via walking, postsecondary educational facilities
walk_srf	access via walking, sports and recreational facilities