



Australian Government

Australian Institute of  
Family Studies



**Building a  
New Life  
in Australia**

The Longitudinal Study  
of Humanitarian Migrants

# Data Users Guide

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## Abbreviations

AAPOR	American Association for Public Opinion Research
ABS	Australian Bureau of Statistics
ADA	Australian Data Archive
AIFS	Australian Institute of Family Studies
ANZSCO	Australian and New Zealand Standard Classification of Occupations
ASCED	Australian Standard Classification of Education
ASCL	Australian Standard Classification of Languages
ASCRG	Australian Standard Classification of Religious Groups
BNLA	Building a New Life in Australia
BVE	Bridging Visa Class E
CAPI	Computer-assisted personal interview
CASI	Computer-assisted self-interview
CATI	Computer-assisted telephone interview
CAWI	Computed-assisted web interview
DIAC	Department of Immigration and Citizenship (now DIBP)
DIBP	Department of Immigration and Border Protection
DSS	Department of Social Services
ID	Identification number
MMM	Multicultural Marketing and Management
MU	Migrating Unit
NCLD	National Centre for Longitudinal Data
PAL	Primary Approach Letter
PA	Principal Applicant (see also PR)
PAPI	Pen and Paper Instrument
PaRMS	Participant and Respondent Management System
PR	Principal Respondent
PTSD	Post-traumatic Stress Disorder
SA	Secondary Applicant (see also SR)
SACC	Standard Australian Classification of Countries
SEIFA	Socio-Economic Indexes for Areas
SDB	Settlement Database
SHP	Special Humanitarian Program
SDQ	Strengths and Difficulties Questionnaire
SR	Secondary Respondent
UMA	Unauthorised Maritime Arrival
UNHCR	United Nations High Commissioner for Refugees



## Key terms

Term	Meaning
Building a New Life in Australia (BNLA)	BNLA is a longitudinal study that aims to trace the settlement journey of humanitarian migrants, from their arrival in Australia through to eligibility for citizenship and beyond. It is also known as the Longitudinal Study of Humanitarian Migrants.
Bridging Visa Class E (BVE)	A BVE is a temporary visa that allows people to stay in Australia while they finalise their immigration matter or make arrangements to leave Australia. BVE holders who arrived through the onshore migration pathway are not permitted to work in Australia unless they arrived prior to 13 August 2012. <sup>1</sup>
Community Detention	Community Detention <sup>2</sup> facilities house onshore pathway arrivals pending resolution of their claims for protection. During their stay they are not allowed to work, are subject to curfews and other supervision arrangements and can be moved back to detention at any time at the discretion of the Minister. Families, unaccompanied minors and other vulnerable clients are prioritised for placement in Community Detention.
Humanitarian Program	The Humanitarian Program is a component of Australia's Immigration Program and has 2 important functions: <ul style="list-style-type: none"> <li>• The onshore protection/asylum component fulfils Australia's international obligations by offering protection to people already in Australia who are found to be refugees according to the United Nations Convention relating to the Status of Refugees.</li> <li>• The offshore resettlement component expresses Australia's commitment to refugee protection by going beyond these obligations and offering resettlement to people overseas for whom this is the most appropriate option.<sup>3</sup></li> </ul>
Migrating Unit (MU)	A MU comprises all persons who migrated to Australia as part of the same migration application as the Principal Applicant.
Offshore Migration Pathway	The offshore resettlement component of the Humanitarian Program comprises two categories of permanent visas. These are: <ul style="list-style-type: none"> <li>• Refugee – for people who are subject to persecution in their home country, who are typically outside their home country, and are in need of resettlement. The majority of applicants who are considered under this category are identified and referred by the United Nations High Commissioner for Refugees (UNHCR) to Australia for resettlement. The Refugee category includes the visa subclasses of: <ul style="list-style-type: none"> <li>– Refugee (subclass 200)</li> <li>– In-country Special Humanitarian (subclass 201)</li> <li>– Emergency Rescue (subclass 203)</li> <li>– Woman at Risk (subclass 204).</li> </ul> </li> <li>• Special Humanitarian Program (SHP) – for people outside their home country who are subject to substantial discrimination amounting to gross violation of human rights in their home country, and immediate family of persons who have been granted protection in Australia. Applications for entry under the SHP must be supported by a proposer who is an Australian citizen, permanent resident or eligible New Zealand citizen, or an organisation that is based in Australia.<sup>4</sup> Successful applicants are granted a Global Special Humanitarian visa (subclass 202).<sup>5</sup></li> </ul>

1 Australian Human Rights Commission, *Tell Me About: Bridging Visas for Asylum Seekers*, accessed 6 March 2017 at [www.humanrights.gov.au/our-work/asylum-seekers-and-refugees/publications/tell-me-about-bridging-visas-asylum-seekers](http://www.humanrights.gov.au/our-work/asylum-seekers-and-refugees/publications/tell-me-about-bridging-visas-asylum-seekers)

2 The description of Community Detention provided here relates to the period relevant to the BNLA participants who may have spent time in such facilities. Policy changes since then and in the future may render this definition obsolete. For more information about the Community Detention policies in 2013 see: I. Katz, G. Doney & E. Mitchell, (2013), *Evaluation of the expansion of the community detention program: Client and service provider perspectives* (SPRC Report 12/13), University of New South Wales.

3 Department of Home Affairs, *Australia's Refugee and humanitarian program* at [www.immi.homeaffairs.gov.au/what-we-do/refugee-and-humanitarian-program](http://www.immi.homeaffairs.gov.au/what-we-do/refugee-and-humanitarian-program)

4 Department of Home Affairs, *Australia's Refugee and humanitarian program* at [www.immi.homeaffairs.gov.au/what-we-do/refugee-and-humanitarian-program](http://www.immi.homeaffairs.gov.au/what-we-do/refugee-and-humanitarian-program)

5 Department of Home Affairs, *Subclass 202 Global Special Humanitarian visa* at [www.immi.homeaffairs.gov.au/visas/getting-a-visa/visa-listing/global-special-humanitarian-202](http://www.immi.homeaffairs.gov.au/visas/getting-a-visa/visa-listing/global-special-humanitarian-202)

Term	Meaning
Onshore migration pathway	<p>The onshore component of the Humanitarian Program aims to provide options for people who wish to apply for protection (or asylum) after arrival in Australia.<sup>6</sup> It includes persons who either:</p> <ul style="list-style-type: none"> <li>arrived without a valid visa (e.g. Unauthorised Maritime Arrivals (UMAs); or</li> <li>were holders of valid visas (e.g. tourist) before claiming asylum. While onshore applications are being assessed, applicants may spend time in immigration detention, Community Detention or on a BVE.</li> </ul> <p>Australia currently has 3 types of visa subclasses available for people onshore who want to apply for protection:</p> <ul style="list-style-type: none"> <li>Protection visa (subclass 866)</li> <li>Temporary Protection visa (subclass 785)</li> <li>Safe Haven Enterprise visa (subclass 790).<sup>7</sup></li> </ul> <p>However, for the current BNLA survey participants, the only onshore migration visa that applied was subclass 866.</p>
Principal Applicant (PA)	<p>A PA is the person on the visa application upon which the approval to immigrate was based. For the BNLA study, the PA is also designated as the lead participant for the household for Wave 1 of the study, if:</p> <ul style="list-style-type: none"> <li>aged 18 years or older at the time of the first interview; and</li> <li>had consented to participate in the study.</li> </ul> <p>A PA completes the BNLA PA survey questionnaire in Wave 1. (See also Principal Respondent.)</p>
Principal Respondent (PR)	<p>A PR is a BNLA study participant who is the lead participant for the household for a particular BNLA wave, from Wave 2 onwards; and was either:</p> <ul style="list-style-type: none"> <li>a PA; or</li> <li>a Secondary Applicant who established a new household independent from the household in which their original PA lives; or</li> <li>a Secondary Applicant who has been designated as the lead participant in a household for other reasons.</li> </ul> <p>A PR completes the BNLA PA survey questionnaire for a particular wave from Wave 2 to Wave 5.</p>
Secondary Applicant (SA)	<p>An SA is any member of the MU named on the visa application other than the PA (e.g. spouse or child of the PA). An SA is eligible to participate in the BNLA study if:</p> <ul style="list-style-type: none"> <li>they were residing with their PA in Wave 1; and</li> <li>their PA had consented to participate in the study in Wave 1.</li> </ul> <p>Furthermore, an SA for the BNLA study was either:</p> <ul style="list-style-type: none"> <li>SA Adult – if aged 18 years or older at the time of the first interview and had consented to participate in the study; or</li> <li>SA Adolescent – if aged 15-17 years at the time of the first interview, the adolescent’s parent/guardian was a PA or an SA Adult for the study, and the parent/guardian had given consent at Wave 1 for the adolescent to participate in the study.</li> </ul> <p>SAs complete the BNLA SA survey questionnaire in Wave 1. (See also Secondary Respondent.)</p>

<sup>6</sup> Department of Home Affairs, *Australia’s Refugee and humanitarian program* at [www.immi.homeaffairs.gov.au/what-we-do/refugee-and-humanitarian-program](http://www.immi.homeaffairs.gov.au/what-we-do/refugee-and-humanitarian-program)

<sup>7</sup> Department of Home Affairs, *Subclass 790 Safe Haven Enterprise visa* at [www.immi.homeaffairs.gov.au/visas/getting-a-visa/visa-listing/safe-haven-enterprise-790](http://www.immi.homeaffairs.gov.au/visas/getting-a-visa/visa-listing/safe-haven-enterprise-790)

Term	Meaning
Secondary Respondent (SR)	<p>An SR is:</p> <ul style="list-style-type: none"> <li>• a BNLA study participant who is a member of a household where another person is the PR for the same BNLA Wave, from Wave 2 to Wave 5; and</li> <li>• a respondent who completed the BNLA SA survey questionnaire for a particular wave from Wave 2 to Wave 5.</li> </ul> <p>Furthermore, an SR for the BNLA study could be either:</p> <ul style="list-style-type: none"> <li>• an Adult SR – if aged 18 years or over at the time of the interview and had consented to be interviewed for the study; or</li> <li>• an Adolescent SR – if aged 15–17 years at the time of the interview, the adolescent’s parent/guardian was a PA or an SA Adult for the study, and the parent/guardian had given consent at Wave 1 for the adolescent to be interviewed. By Wave 4 all Adolescent SR respondents had become Adult SR respondents.</li> </ul>
Respondent	In Wave 6, participant types were no longer used (e.g. PR, SR or SA). Everyone was considered a respondent and all respondents completed the same questionnaire.
Unauthorised Maritime Arrival (UMA)	A UMA is a person who arrives in Australia by boat without a valid visa. <sup>8</sup>

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- Department of Social Services – Longitudinal Studies – Research and Methods Section
- Department of Home Affairs
- Australian Institute of Family Studies
- Verian (formerly known as Kantar Public (2022) and Colmar Brunton Social Research (prior to 2022))
- Multicultural Marketing and Management
- The Building a New Life in Australia Survey Reference Group
- The Building a New Life in Australia Technical Advisory Group.

A range of individuals from other organisations also offered their time and advice on an ad hoc basis at various stages during development of the study. Their input is gratefully acknowledged here.

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Finally, we would like to extend a very special thank you to all the humanitarian migrants and their family members who participated in the study. This study would not have been possible without their generosity in sharing their views and experiences.

<sup>8</sup> For a full definition see *Migration Act 1958*, section 5AA, at [www.austlii.edu.au/au/legis/cth/consol\\_act/ma1958118/s5aa.html](http://www.austlii.edu.au/au/legis/cth/consol_act/ma1958118/s5aa.html)

# 1. Introduction

The Data Users Guide provides an overview of the Building a New Life in Australia (BNLA) project's background and methodology. It provides details of the study population, sample selection and characteristics, changes in methodology across waves, variable naming conventions and standardised scales used in the survey. It is intended that this guide will be used in conjunction with the following documents:

- The Data Dictionary, which details the survey variables, administrative, derived and coded items to assist data users to analyse survey data. The Data Dictionary is available in Excel (available for download on the [ADA website](#)) and Power BI (available on the [study website](#)). The Power BI version of the Data Dictionary is an interactive platform within the study website. It features several ways of navigating the BNLA metadata, including exploring questions across waves, and directed search by keyword or variable name.
- Labelled questionnaires marked with variable names are also available on the study website and provide useful information for data users.

We invite feedback from data users about the BNLA data documentation. If there is anything you expected to find in the Data Users Guide and didn't, if you need further clarification around any materials or if you have any further comments, please let us know by emailing [bnladatamanager@aifs.gov.au](mailto:bnladatamanager@aifs.gov.au)

## 1.1. Objectives

The BNLA project aims to trace the settlement journey of humanitarian migrants, from their arrival in Australia through to eligibility for citizenship and beyond, in order to better understand the factors that influence people's settlement processes, both positively and negatively. BNLA is a ground-breaking project. There has been no project like this conducted in Australia before.

The project seeks to understand refugees' experiences with services, housing, education, employment and their local community. The information gained will help to provide an overall picture of how Australia's new humanitarian migrants are settling and point to what can be done to improve the wellbeing of humanitarian migrants and their families. Information will be used to help researchers answer questions, such as:

- What is life like for a newly arrived humanitarian migrant?
- Are new humanitarian migrants healthy and happy?
- What difficulties are humanitarian migrants facing, and how are they coping?
- How well are services able to help humanitarian migrants settle?
- What factors influence successful settlement and hinder positive outcomes?

A key interest for the research is to understand how different migration pathways affect settlement outcomes. The following broad research themes have been formulated for this purpose:

- Humanitarian migrants' settlement outcomes in relation to their English language proficiency, housing situation, labour force participation, use of qualifications, income, health, community engagement, citizenship and level of satisfaction with life in Australia
- Access to, and use of, government and non-government services, welfare benefits, and their effectiveness in contributing to migrants' successful settlement
- How settlement outcomes of humanitarian migrants differ by visa subclass.

## 1.2. Background

In 2012, the then Department of Immigration and Citizenship (DIAC),<sup>9</sup> commissioned AIFS to manage the design, administration and processing of the BNLA project, known also as the Longitudinal Study of Humanitarian Migrants. AIFS partnered with Verian in conjunction with Multicultural Marketing and Management (MMM), as the fieldwork agency for this project. In April 2014, responsibility for the project moved from DIAC to the Department of Social Services (DSS), where it is now administered by the Longitudinal Studies – Research and Methods Section.

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<sup>9</sup> In September 2013, DIAC changed its name to Department of Immigration and Border Protection (DIBP).

Initial development work for the project commenced in September 2010 with the Following Migrants Forward workshop held at the Australian National University. Two Advisory Groups were then convened to inform the study design and development: a Survey Reference Group comprising Commonwealth Government officials and external stakeholders and a Technical Advisory Group comprising experts in refugee resettlement and longitudinal survey methods and analysis. To further guide the project's development, 2 background papers were commissioned in 2012: one by Dr Siew-Ean Khoo<sup>10</sup> examining key issues and settlement indicators on which the survey should focus, and the other by Professor Matthew Gray and colleagues<sup>11</sup> outlining design options for the study. A position paper was also prepared by DIBP's Economic Analysis Unit, with input from the Survey Reference and Technical Advisory Groups.

### 1.3. Project scope

The project has followed the settlement journey of 1,509 refugee migrating units and 2,399 individuals within these migrating units. The study collects information from people who:

- received a permanent humanitarian visa overseas and arrived in Australia between May and December 2013 (i.e. the 'offshore' cohort) or
- sought asylum after arriving in Australia and were subsequently granted a permanent humanitarian visa between May and December 2013 (i.e. the 'onshore' cohort).

## 2. Project methodology

### 2.1. BNLA population and sample selection

Extensive scoping work was undertaken in 2012–13 during the development of the project. In-depth interviews and focus groups were conducted with more than 50 representatives from key stakeholders in the settlement sector including: Commonwealth and state government departments; peak agencies that support refugees and asylum seekers; settlement service providers; migrant community groups and religious and cultural leaders; and former humanitarian migrants who had been in the community for a number of years. These consultations provided valuable advice around study design issues, participant recruitment and retention, survey content and cultural sensitivities in undertaking research with this population.

The study aimed to include 1,500 MU (with 70% of participants being in offshore subgroups and 30% in onshore subgroups). This ratio broadly followed the distribution of government grant applications in the 2013 Humanitarian Program. To be eligible for the study, offshore visa holders had to have arrived in Australia holding a permanent visa 3–6 months prior to their Wave 1 interview. Onshore visa holders had to have received their permanent protection visa 3–6 months prior to their Wave 1 interview.<sup>12</sup> Given that Wave 1 interviewing was scheduled to take place from October 2013 to February 2014, the eligibility period for offshore arrivals and onshore visa grants was therefore May to December 2013.

With the implementation of offshore processing on 15 June 2013, and the transfer of unauthorised maritime arrivals (UMAs) from Australia to Nauru and Manus Island for processing, some changes to the sample composition were required. The revised sample parameters were an offshore component of 77% and an onshore component of 23%. Table 2.1 outlines the definitions and requirements for each cohort.

The MU was the primary sampling unit, with the Principal Applicant (PA) selected as the main/lead participant for the project. The PA was identified in the Settlement Database (SDB). The MU could consist of a single individual, members of a family, unrelated persons or a mixture. The PA (aged 18 years and over) was required to consent to take part in the study before other members of the family could be invited to participate.

<sup>10</sup> S. E. Khoo, *Key Research Questions for a Longitudinal Survey of Refugees and other Humanitarian Migrants*, Paper prepared for the Department of Immigration and Citizenship, Canberra, 2012.

<sup>11</sup> M. Gray, A. Graycar, & L. Nicolou, (2012), *Design options for the Building a New Life in Australia Longitudinal Survey of Humanitarian Migrants*, Paper prepared for the Department of Immigration and Citizenship, Canberra.

<sup>12</sup> Onshore visa holders have been in Australia for a longer period, either on a different visa type or in immigration detention/Community Detention.

A Secondary Applicant (SA) is any other member of the MU named on the visa application (e.g. spouse, children). SAs had to be aged 15 years and over and residing with the PA in order to participate in the study. However, once recruited to the study, SAs were able to independently continue participating in later waves if they chose (e.g. in circumstances where the PA withdraws or there had been a family break-up). In some cases, SAs may have established a new household independent from the household in which their original PA continued to live. In such cases the SA answered a PA questionnaire to ensure household information was captured.

**Table 2.1: BNLA sample definitions and requirements**

	Cohorts Permanent offshore (refugees)	Permanent onshore (asylum seekers)
Definition	People who came to Australia after being identified by the UNHCR as refugees in need of resettlement, plus people who came to Australia via the Special Humanitarian Program.	People who were already in Australia when they received a permanent visa.
Overall target	Sample target was $n = 56$ offshore MUs in the pilot and $n = 1,160$ offshore MUs in the main.	Sample target was $n = 24$ onshore MUs in the pilot and $n = 340$ onshore MUs in the main.
Sampling approach	A census approach was used in all selected locations given the relatively low numbers of eligible migrants potentially available.	A census approach was used in all selected locations given the relatively low numbers of eligible migrants potentially available.
Recruitment period	This group was recruited approximately 3–6 months after their arrival in the country.	This group was recruited approximately 3–6 months after being granted a permanent humanitarian visa.
Subgroup	This group includes: <ul style="list-style-type: none"> <li>• People under the Refugee Program <ul style="list-style-type: none"> <li>– Refugee subgroup, visa 200 (sample target = 940 MUs)</li> <li>– Woman-at-risk, visa 204 (sample target = 170 MUs)</li> <li>– Other, visa 201, 203 (sample target = 10 MUs).</li> </ul> </li> <li>• People under the Special Humanitarian Program, visa 202 (sample target = 40 MUs).</li> </ul>	There are 2 distinct onshore subgroups: <ul style="list-style-type: none"> <li>• UMAs (those who arrived by boat without a valid visa) (sample target = 250 MUs)</li> <li>• Non-UMAs (those who applied for asylum after having arrived on a valid visa) (sample target = 90 MUs).</li> </ul>
Fieldwork site selection	Fieldwork sites were selected on the basis that they would provide enough MUs for robust analysis of the women-at-risk and refugee subgroups and for the offshore cohort as a whole.	Fieldwork sites were selected on the basis that they would provide enough MUs for robust analysis of the UMA sub-population.

SAs are split into 2 subgroups as follows.

- SA Adults: This subgroup comprises members of the PA's MU aged 18 years or older at the time of interview. There may be situations when members of the original MU were not living with the PA at the time of Wave 1 data collection. In such circumstances they were not eligible for the study. This could be the case for 'adopted families', where a group of unrelated migrants has formed an MU while on route to Australia. From Wave 2 onwards, we attempted to follow SAs who participated in Wave 1 but no longer live with the PA.
- SA Adolescents: These SAs are of particular interest and are eligible to be interviewed if their parent/guardian gave personal consent for participation at Wave 1. The eligible age for an SA Adolescent is 15–17 years. SAs younger than this were not eligible to be interviewed. It is thought that adolescents will have different settlement outcomes from their parents or other adults in the MU and therefore it is important to capture their experiences. SA Adolescents stopped being asked a separate questionnaire after Wave 3.
- In Wave 6, all respondents were administered the same questionnaire. Therefore, there are no references to PAs and SAs in Wave 6 study materials.

## Enumerated persons

For Waves 1–5, the PAs were asked to provide demographic information about other people who were living in the same household. The information included age, sex and relationship to the PA. In Waves 1 and 2, this information was collected only for the people who were on the original visa application (i.e. members of the same MU). Some of these people could be respondents in their own right (and complete the SA questionnaire) but others only appear in the survey data as enumerated persons. Enumerated persons can be distinguished from respondents in the data using the *resp*<sup>13</sup> variable.

From Wave 3 to Wave 5, the collection of demographic information from the PA was expanded to include household members who were not on the original visa application and thus not part of the MU. For these additional enumerated persons, *xmu\_id* (MU ID) values are assigned the value -9 'Not applicable'. Also, for those persons, the pre-arrival variables, such as *zapplicant* (Applicant type (Z: Pre-arrival)) – but not the variables relating to pre-arrival trauma – are assigned the value -9 'Not applicable'. In the Wave 3 dataset of BNLA Release 3, the variable *chhapp* (Applicant type (Wave 3)) was assigned the value 5 'New Member' for those persons. However, the *chhapp* has been dropped from subsequent releases of the Wave 3 dataset; it became apparent *chhapp* contained information that was not consistent with *zapplicant*.

Nonetheless, a New Member can be identified as these are the only observations where

- *zapplicant* is equal to -9 'Not applicable'.

For Wave 6, all respondents were asked to provide demographic information about other people living in the household, as part of the questionnaire. The information included age, gender, relationship to respondent, disability status and NDIS participation. This information appears in the dataset against the respondent's record. However, the enumerated persons (i.e. household members who were not part of the original sample) will not appear in the dataset as their own observation.

## 2.2. Data collection

### Wave 1 contact procedures

Information from the SDB was used to identify all permanent humanitarian visa holders residing in the selected sample locations who met the eligibility time frame described above.<sup>14</sup> Participants were eligible to be recruited from 11 sites around Australia. A total of 4,035 MUs were identified as potential participants in the study. Around half of the respective PAs were born in Iraq (26%) or Afghanistan (24%). Appendix A shows the distribution of the sample in terms of country of birth.

The contact details of MUs comprising the eligible sample were supplied to Verian. A letter of invitation to the study from AIFS was sent to the PA of each MU together with an accompanying information brochure. The letter and brochure were translated into the PA's primary language and contained the following information:

- a description of the study's rationale, aims, methodology and topics to be covered in the interview
- an explanation of the differing roles of the organisations involved in the study
- reassurance that participation would be anonymous and the information participants provided would be confidential, could not be linked to a person's name and address and any identifying information would not be available to others
- an assurance that participation was voluntary and that acceptance or refusal of the invitation to participate (in Wave 1 or future waves) would not affect a person's visa status or access to services and support
- details of the website established to provide further information about the study.

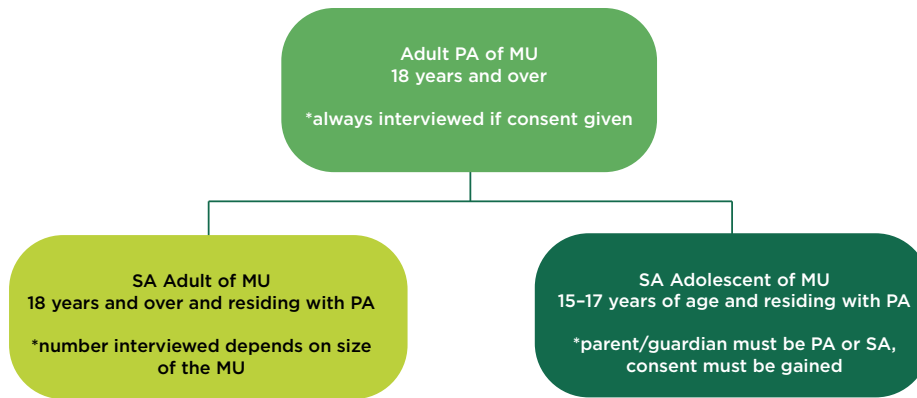
Following this initial contact, Verian field researchers telephoned each potential participating individual/family to ascertain their interest in taking part in the study and to make an appointment if appropriate. If phone contact could not be made, field researchers undertook a home visit to try to reach potential study members. Community Engagement Officers were employed to advocate for the study, arrange introductions and assist with participant recruitment in Wave 1. Their bilingual skills and familiarity with the local communities played a significant role in helping to locate MUs and build rapport with prospective participants.

<sup>13</sup> See Section 3.2 for variable naming conventions.

<sup>14</sup> More information about the SDB can be found at [Settlement reports \(homeaffairs.gov.au\)](https://www.homeaffairs.gov.au)

For Wave 1, after all PAs who consented were interviewed, other members of the MU were invited to participate as SAs. The involvement of PAs and SAs is outlined further in Figure 2.1.

**Figure 2.1:** BNLA Wave 1 data collection with each MU



Starting from Wave 2, it was possible for SAs to exit the household of their original PA and establish their own household. In these cases, the exiting SA was asked to complete a household level questionnaire about their new household. As a result, from Wave 2 to Wave 5, the migration status on arrival (PA or SA) may be different from the response status at the time of completing an interview. To this end, a person who completed a household level questionnaire is identified as a Principal Applicant (PA) while all other respondents are identified as Secondary Applicants (SA).

## Wave 2 contact procedures

In Wave 2, initial contact was through a Primary Approach Letter (PAL), which was addressed to each participant who had completed a Wave 1 interview. As participants' primary language was confirmed during Wave 1, the PAL used in Wave 2 was provided in this language. If participants' language was outside the set of languages translated for Wave 2, an English version was sent.

Strategies put in place to increase the chances of making contact with participants in Wave 2 included:

- use of contact details collected from participants during the previous wave, such as mobile and home telephone number and email address
- use, if needed, of secondary contact details (of family or friends), provided by participants in the previous wave
- updated contact details supplied by DSS
- updated contact details provided by participants through the project website, 1800 hotline or email
- other methods of locating participants such as manual searches of White Pages or seeking assistance from other people in the household.

## Contact procedures for Waves 3-5

As part of the study design, the data collection method involved a shorter telephone interview in Wave 2, a face-to-face interview with a longer interview length in Wave 3, a shorter telephone interview in Wave 4, and the return of a face-to-face longer interview in Wave 5. Initial contact with the main sample was through a PAL, which was addressed to each eligible participant (i.e. separate letters to PAs, SA Adults and SA Adolescents) who had completed a Wave 1 interview and had not subsequently withdrawn from the study. The PAL reintroduced the project and reminded participants that they would be contacted over the telephone by a field researcher to arrange a suitable time to complete the interview. The PAL contained the name of the field team member assigned to interview the respondent.

A study newsletter was also sent to all main and pilot participants at the start of each main phase (for Waves 2-5). The aim of the newsletter was to share information gathered from the BNLA study with participants. This included some of the key positive outcomes for recently arrived humanitarian migrants, insights from the interviewing group and some examples of how the data were being used by researchers and government.



As described in more detail later in the section 'Wave 3 Child Module' (page 15), participants with children aged 5–17 years were eligible to participate in a child module for the first time in Wave 3. There were 2 components associated with the child module. The first component consisted of the parent completing a child module. The second component involved a child self-report questionnaire. This child module was collected in Wave 3 only and not funded for inclusion in future waves of the study.

## Wave 6 contact procedures

Initial contact with the main sample was made through a PAL, which was addressed to each eligible participant who had completed a Wave 1 interview and had not subsequently withdrawn from the study. The PAL re-introduced the project and contained the name of the field researcher assigned to interview the respondent. The PAL also contained a link to the web interview and if the respondent chose to complete the web interview, a field researcher would not make further contact. Follow-up phone calls, e-mails and SMS reminders were implemented to reach non-responding persons and those who had started but not completed the web interview. An option was given to these respondents to complete a face-to-face interview.

A Youth Module was introduced in Wave 6. This was offered as a web interview to young people aged 15–24 who had participated in the Wave 3 Child Module (or their carers had responded on their behalf). The youth sample initially received the PAL that introduced the project and contained a link to the web interview. Follow-up phone calls, e-mails and SMS reminders were also used to reach non-responding persons.<sup>15</sup>

## Interview mode Waves 1–5

The initial 5 annual waves of data collection took place between 2013–14 and 2017–18, with alternating waves of home visits (Waves 1, 3 and 5) and telephone interviews (Waves 2 and 4). In Waves 1, 3 and 5, the survey was administered using one of the following 3 methods.

- A computer-assisted self-interview (CASI) on a small portable computer tablet. In Wave 1, the CASI had audio and flashlight functions available so that participants could listen to the questions and answers at the same time as the spoken words were highlighted on the screen. This feature was found to be particularly useful for participants with low levels of literacy.<sup>16</sup>
- A computer-assisted personal interview (CAPI) was also offered to participants who preferred to complete the survey with a field researcher.
- When neither of these methods was feasible, participants were assisted by an accredited interpreter over the phone or in person, with a field researcher also present to pose the questions and record the answers.

In Waves 1, 3 and 5, the survey was administered as a face-to-face interview, either as a computer-assisted self-interview (CASI) or computer-assisted person interview (CAPI). However, there were some instances in which the field researcher was unable to schedule a face-to-face interview with the respondent due to the respondent's availability. In an attempt to reduce sample loss, a small number of CATI interviews were conducted with respondents who were unavailable for a face-to-face interview and/or requested a telephone interview during the fieldwork period in Wave 3 and Wave 5. The mode of survey completion for Waves 1, 3 and 5 are presented in Table 2.2.

In Waves 2 and 4, the survey was administered over the telephone as a computer-assisted telephone interview (CATI) using bilingual field researchers and interpreters where required. However, in the final week of the Wave 2 fieldwork, in an attempt to boost response rates, a limited number of face-to-face interviews were conducted with respondents who were unable to be contacted through other methods. These participants had not been contactable by phone, were residing in Melbourne or Sydney and their main language matched that of the Verian field researcher. A total of 33 MUs were contacted, resulting in an additional 12 completed interviews from 10 MUs.

## Interview mode Wave 6

In Wave 6, the survey was initially administered via a computer-assisted web interview (CAWI). If the respondent preferred, a field researcher could attend an in-home interview and provide the option of a computer-assisted self-interview (CASI) or computer-assisted personal interview (CAPI). During the fieldwork period, it was decided to also allow for telephone interviews, which started in March, where no other modes were suitable for the respondent.

The variable, `<a-f>mode` in the dataset indicates the interview mode used for each participant at each wave.

<sup>15</sup> If the contact details of the young person were known then the PAL was sent directly to them, otherwise it was sent to the young person via the parents.

<sup>16</sup> Due to low take-up rates, the audio and flashlight functions were not available from Wave 2 onwards.

**Table 2.2:** Mode of survey completion for Waves 1, 3, 5 and 6

Mode of interview	Wave 1		Wave 3		Wave 5		Wave 6	
	<i>n</i>	%	<i>n</i>	%	<i>n</i>	%	<i>n</i>	%
Computer-Assisted Self-Interview (CASI)	1,692	70.5	1,999	63.3	847	45.0	145	11.9
Computer-Assisted Personal Interview (CAPI)	707	29.5	640	33.8	941	50.0	373	30.5
Computer-Assisted Telephone Interview (CATI)	0	0.0	55	2.9	93	4.9	68	5.6
Computer-Assisted Web Interview (CAWI)	N/A	N/A	N/A	N/A	N/A	N/A	637	52.1
<b>Total interviews</b>	<b>2,399</b>	<b>100.0</b>	<b>1,894</b>	<b>100.0</b>	<b>1,881</b>	<b>100.0</b>	<b>1,223</b>	<b>100.0</b>

Note: N/A = not applicable

## Foreign language translations

To accommodate the diverse cultural and linguistic backgrounds of individuals in the study, the survey and participant materials were offered in 14 languages in Wave 1, covering approximately three-quarters of the languages spoken by the in-scope population. With the availability of interpreters, 19 languages were used across the Wave 1 sample.

To facilitate comparison across the waves, Table 2.3 lists the main languages of survey completion for each of the 6 waves. For Wave 2, the questionnaire was translated into 9 languages, reflecting the major languages used in Wave 1. A total of 19 languages were again used in Wave 2, while interviews were completed in 13, 11 and 10 different languages in Waves 3, 4 and 5, respectively. For Wave 6, the questionnaire was offered in 6 languages including English, and respondents completed using 7 languages. The Sample Scoping Study highlighted that almost two-thirds of participants would be uncomfortable completing the survey in English. The Wave 6 languages available were English, Arabic, Persian, Dari, Hazaragi and Burmese. Around 10% of respondents completed the survey in English in Waves 1 and 2. A slightly higher proportion of respondents completed an English survey in Wave 3 (12%); however, the corresponding proportion was lower in Wave 4 (4%). At the time of the Wave 5 survey, close to one-quarter (23%) of respondents completed the survey in English. In Wave 6, 42.9% of respondents completed the survey in English, a significant increase from Wave 5.

**Table 2.3:** Waves 1-6 language of survey completion, all interview modes

Interview language	Wave 1 %	Wave 2a %	Wave 3b %	Wave 4c %	Wave 5d %	Wave 6 %
Arabic	42.3	45.1	44.2	47.4	40.8	35.2
English	9.6	9.1	12.1	4.3	22.9	42.9
Persian	23.4	19.0	24.5	18.1	19.3	14.4
Dari	8.3	10.8	6.6	8.3	4.6	3.2
Nepali	4.2	2.5	4.1	5.4	3.9	N/A
Hazaragi	3.3	5.0	2.6	9.4	2.7	1.9
Chin Haka	1.9	2.7	1.8	3.2	2.4	N/A
Burmese/Myanmar	3.0	2.5	2.4	2.4	2.1	2.4
Swahili	1.2	np	np	np	np	N/A
Tamil	1.0	1.6	np	1.2	np	N/A
Other <sup>e</sup>	1.8	1.7	1.7	0.3	1.3	0.1
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Number of interviews (n)</b>	<b>2,399.0</b>	<b>2,009.0</b>	<b>1,894.0</b>	<b>1,929.0</b>	<b>1,881.0</b>	<b>1,223.0</b>

Notes: Data are unweighted. (a) For Wave 2, Swahili had a frequency of less than 1%. (b) For Wave 3, Swahili and Tamil individually had a frequency of less than 1%. (c) For Wave 4, Swahili had a frequency of less than 1%. (d) For Wave 5, Swahili and Tamil individually had a frequency of less than 1%. (e) Languages with less than 1% frequency for a Wave are grouped together in the 'Other' category. np = Not published. N/A = not applicable.

## Fieldwork dates

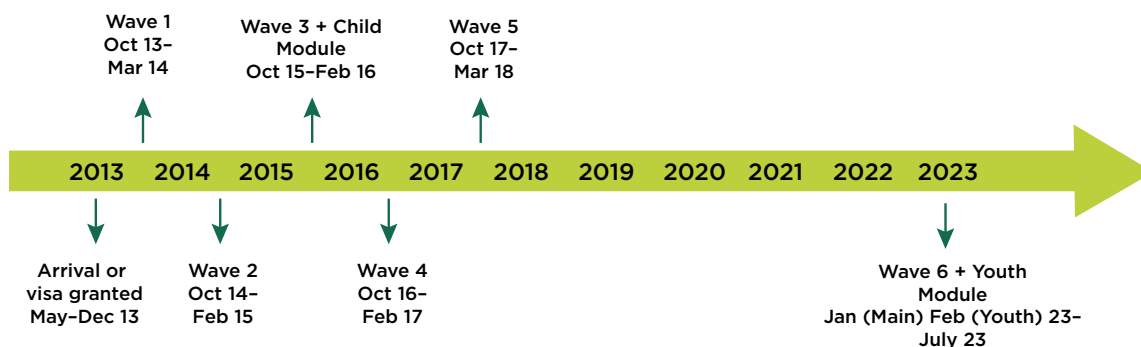
For Waves 1 to 5, data were collected annually in two phases. A pilot study was conducted in May and June to test the study methodology and interview content. The main wave data collection took place between October and the following February or March.

At Wave 5 (2017/18) participants were informed that there could be future waves of the study; however, no further detail was provided. Several conversations in relation to future BNLA waves occurred between 2018 and 2021, with confirmation of further funding for the study secured in late 2021 and planning commencing in 2022. A contributing factor to the delay was disruption to planning activities due to the COVID-19 pandemic. The aim of Wave 6 of the BNLA study was to understand what life in Australia is like now for study participants, 10 years after the study first commenced.

A sample scoping study was conducted prior to Wave 6 to re-engage participants and gauge their willingness to complete another wave of the study. Participants were asked to confirm their interest in the study and their preference on mode of delivery. Of the contacted participants, 80% stated they were likely to take part, 11% were neutral or not sure and 9% said they were unlikely to participate.

For Wave 6, the Sample Scoping Study took place in May–June 2022 and the pilot took place in Sept–Oct 2022 for Main Wave, and Dec 2022 for the Youth Module. The main wave enumeration was undertaken later than usual to allow for time between the pilot and main wave. Table 2.4 displays the periods that each of the completed BNLA fieldwork activities took place.

**Figure 2.2: BNLA Fieldwork timeline**



**Table 2.4: BNLA fieldwork time periods for pilot studies and main waves**

Wave	Pilot study	Main wave
1	May & June 2013	Oct 2013 to Mar 2014
2	May & June 2014	Oct 2014 to Feb 2015
3	May & June 2015	Oct 2015 to Feb 2016
4	May & June 2016	Oct 2016 to Feb 2017
5	May & June 2017	Oct 2017 to Mar 2018
6 Main <sup>17</sup>	Oct & Nov 2022	Jan to July 2023
6 Youth	Dec 2022	Feb to July 2023

After Wave 1, a minimum of 9 months was required to elapse between each main wave interview. For example, the earliest time a BNLA respondent was interviewed for Wave 1 was 3 months after arrival in Australia (if in the offshore cohort) or 3 months after a permanent visa was granted (if in the onshore cohort). For Wave 2, for the offshore group the earliest was 12 months after arrival, and for the onshore group the earliest was 12 months after being granted a permanent visa.

<sup>17</sup> The Wave 6 fieldwork dates occurred later than usual due to the Sample Scoping Study being undertaken in May.

## Interview length

In Waves 1-5, PAs completed a longer questionnaire than SAs as they answered additional questions about their family and housing that was only collected once for each household (including but not limited to household demographics). Table 2.5 details average interview length for different respondent types in each wave.

In Wave 1, some variation in survey timings between subgroups was found, with the onshore PA group taking less time on average compared to the offshore PA group. Interviews completed with a bilingual field researcher were quicker on average compared to self-completed interviews where the respondent completed the interview on the computer tablet.

In Wave 2, a considerably reduced survey instrument was used to accommodate a shorter target interview length for administration over the telephone. There was little variation by language for interviews administered over the telephone; however, the small number of surveys conducted face-to-face as CAPI interviews were much shorter on average (15 minutes for PAs and 7 minutes for SA Adults), highlighting that interviews conducted in face-to-face mode were quicker to administer than those over the telephone.

As part of the study design, the data collection method in Wave 3 reverted back to a face-to-face interview and a longer interview length. There were differences by interview mode across all applicant types, with CAPI interviews taking longer on average than CASI interviews. More specifically, CASI interviews in English took 45 minutes on average to complete compared to CAPI interviews in English, which took just over 1 hour to complete (for PAs).

In Wave 4, data were again collected via telephone interview. CATI interviews in English took longer on average than CATI interviews in a translated language among PAs. Given that only 5% of PAs completed an interview in English, this greater average survey length did not have a significant impact on the overall survey timings. There were no differences in survey length among SAs by interview language.

In Wave 5, the data collection method again reverted back to a face-to-face interview. With the addition of new survey material, including a new module to capture respondents' attitudes towards child care and gender roles, the target survey length was reduced by 5 minutes for PAs and increased by 5 minutes for SAs to ensure the overall combined target of 90 minutes was achieved. In contrast to previous waves, CASI interviews in a language other than English took longer on average than other modes of administration (55 minutes for PAs and 43 minutes for SAs).

**Table 2.5:** Average BNLA interview length, Waves 1-5

Wave	PA	SA/SR Adult	SA/SR Adolescent
1	56 minutes	40 minutes	35 minutes
2	23 minutes	11 minutes	9 minutes
3	50 minutes	30 minutes	26 minutes
4	20 minutes	11 minutes	N/A
5	48 minutes	34 minutes	N/A

In Wave 6, the data collection methods offered were CAWI, CASI, CAPI and CATI for main wave respondents and CAWI only for the youth cohort. The questionnaire included new material on COVID-19, trauma since the event and household demographic questions. The demographic questions replaced the previous household grid, which increased the survey interview time.

The expected length of the main wave interview was between 50 and 60 minutes. The CATI in English was the quickest survey type, with an average length of just over 43 minutes, followed closely by CAWI in English, with an average length of just over 44 minutes. By contrast, surveys completed via CAPI in a language other than English took by far the longest (over 1 hour and 4 minutes), as well as CASI in a language other than English and CASI in English, which took just under an hour to complete.

Overall, the average length of the Wave 6 main survey was 53 minutes and 18 seconds across the differing modes and languages of administration (Table 2.6). These timing estimates were calculated by excluding 282 surveys that were outliers beyond 120 minutes. The largest proportion of these were completed via CAWI, where participants are more likely to complete the survey over multiple sittings.

The expected length of the youth module was 15 minutes. Excluding 51 surveys that exceeded 30 minutes, the average length of the youth module was 17 minutes and 12 seconds.

**Table 2.6:** Average BNLA interview length, Wave 6

Wave	Average interview length
6 Main	53:18 minutes
6 Youth	17:12 minutes

## 2.3. Survey content

The BNLA study collects data on a wide range of topics. The survey content was developed based on extensive consultations undertaken by AIFS prior to the commencement of Wave 1. These consultations and associated scoping work involved key stakeholders in the settlement sector, such as representatives of peak agencies, settlement service providers, community, cultural and faith-based groups and humanitarian migrant communities.

The major domains of the questionnaire are detailed in Table 2.7.

**Table 2.7:** BNLA topics

Module code	Topic	Scope
<i>de</i>	Family composition and demographics	Demographic information relating to the family such as age, gender of family members, country of birth and marital status
<i>ho</i>	Housing and neighbourhood	Assistance in finding housing, number of times moved home, tenure type, quality of housing, number of bedrooms, neighbourhood characteristics
<i>lp</i>	English language proficiency	Languages spoken at home, English language proficiency, whether attending English language classes, use and helpfulness of interpreting services
<i>ed</i>	Education and training	Highest level of education achieved, current education and training undertaken, educational aspirations, previous qualifications gained prior to arrival in Australia and whether they have been recognised
<i>em</i>	Employment and income	Current employment status, employment characteristics, prior occupation and work experience, experience of unemployment in Australia, income and government benefits received, financial stress
<i>ie</i>	Immigration experience	Life before settling in Australia including countries resided in prior to arrival, the experience of deprivation or trauma, time spent and type of services accessed in refugee camps, Australian immigration detention or community detention, reasons for migrating to Australia, social networks available upon arrival
<i>he</i>	Health	Information on physical and mental health, life stressors and coping
<i>ss</i>	Self-sufficiency	Experiences and ease of accessing services, information and transport, barriers to service use
<i>cs</i>	Community support	Levels of support from national, religious and other community groups, involvement in community activities, ease of making friends, sense of belonging in Australia
<i>ls</i>	Personal resources and life satisfaction	Satisfaction with current life and situation, self-concept, self-efficacy, levels of trust in different community groups and organisations, experience of discrimination
<i>la</i>	Life in Australia	Expectations of life in Australia before arrival, factors promoting or hindering settlement, ease of settling in Australia
<i>cm</i>	Child module	Intergenerational transmission of trauma in migrant communities (Parent report)
<i>sr</i>	Child module	Intergenerational transmission of trauma in migrant communities (Child self-report)

Module code	Topic	Scope
cg	Child care and gender role attitudes	Caregiver status, child care arrangements, attitudes toward gender roles and work
co	COVID-19	Impact on employment, finances and child minding during coronavirus restriction period, COVID positive test result (New for Wave 6)

The Data Dictionary provides a more detailed description of the survey items and changes implemented since Wave 1.

Survey instruments are supplied with the data as part of data release and are available on the BNLA study website at: [Labelled questionnaires](#).

## Wave 3 Child Module

The Wave 3 survey content was similar to that used for Wave 1. The notable difference was the inclusion of a module focused on children in Wave 3, a Child Module. Phoenix Australia contracted AIFS to develop and implement a child module for the BNLA study for Wave 3. (Phoenix Australia, which is also known as the Centre for Posttraumatic Mental Health, is a not-for-profit organisation affiliated with the Department of Psychiatry at the University of Melbourne). The child module aimed to explore intergenerational transmission of trauma in migrant communities.

There were 2 components associated with the child module. The first component consisted of the parent completing a child module where primary caregivers (in most cases, mothers) were invited to answer questions for up to 2 of their children aged 5-17 years. The target length of each set of questions was 10 minutes of interviewing time per child. The child module survey questions were programmed into the PA and SA surveys and questions covered how the children were doing at school, whether they were making friends, their health and wellbeing and how they were adjusting to life in Australia.

The second component of the Child Module involved a child self-report questionnaire, which consisted of children aged 11-17 years completing a short Pen and Paper Instrument (PAPI). Up to 2 children per household were chosen to participate. Field researchers first obtained parental consent before the child was invited to complete the self-report questionnaire. The self-report questionnaire was completed in 9 languages other than English. A major part of the questionnaire comprised the self-report SDQ for children aged 11-17 years.<sup>18</sup> There was some crossover in the type of content asked in each questionnaire, with the SDQ, health status and trauma covered in both the parent complete and child complete questionnaires, to allow comparison of key outcomes for young people from the perspective of parents and the children themselves. Children aged 11-17 years were also asked to complete the PTSD-8 post-trauma inventory,<sup>19</sup> and answer questions covering antisocial behaviour, physical activity, and academic and sporting achievements and awards received. The Strengths and Difficulties Questionnaire (SDQ)<sup>20</sup> - a brief behavioural screening questionnaire - was also included as part of this set of questions. This instrument is designed for administration with parents of children aged 11-17 years.<sup>21</sup>

Sample selection for the child module was undertaken by first randomly selecting 2 children aged 11-17 years in each household. These 2 randomly selected children were eligible for participation in the child self-report questionnaire sub-study, and parents were invited to answer child module questions for the same 2 children. Where there was only one child aged 11-17 years in the household, if there were other children aged 5-10 years then one was randomly selected to be eligible as the second child for the parent complete module. Where there were only children aged 5-10 years in the household, up to 2 children aged 5-10 years were randomly selected for participation in the parent complete module.

18 youthinmind, *One-sided self-rated SDQ for 11-17 year olds*, retrieved 1 March 2017 from [www.sdqinfo.org/py/sdqinfo/b3.py?language=Englishqz\(Austral\)](http://www.sdqinfo.org/py/sdqinfo/b3.py?language=Englishqz(Austral))

19 M. Hansen, T. E. Anderson, C. Armour, A. Elklit, S. Palic & T. Mackrill, (2010), *PTSD-8: A Short PTSD Inventory*, *Clinical Practice & Epidemiology in Mental Health*, vol. 6, pp. 101-108.

20 © Robert Goodman

21 youthinmind, *One-sided SDQ for parents or teachers of 4-17 year olds*, retrieved 18 April 2017 from [www.sdqinfo.org/py/sdqinfo/b3.py?language=Englishqz\(UK\)](http://www.sdqinfo.org/py/sdqinfo/b3.py?language=Englishqz(UK))

## Wave 6 Youth Module

The Youth Module was introduced in Wave 6 and it aimed to explore intergenerational transmission of trauma in migrant communities as well as to understand how young people were settling after 10 years in Australia in areas including education, employment, health and social connections. Young people who participated in the Wave 3 child sample who were 15 years and over in October 2022 were eligible to participate. The questionnaire consisted of a subset of the Wave 6 main wave content and some content from the Wave 3 Child Module, including the self-report SDQ for children aged 11-17 years,<sup>22</sup> PTSD-8 post-trauma inventory,<sup>23</sup> and questions covering antisocial behaviour and physical activity. The questionnaire was 15-minutes long and was offered in English.

## Wave 6 linked data

In Wave 6, respondents were asked for consent to link their survey data with the following national administrative datasets:

- Medicare Benefits Schedule (MBS)
- Pharmaceutical Benefits Scheme (PBS)
- Centrelink Welfare (CLNK).

Of the main cohort, 20.3% agreed for their BNLA survey responses to be linked with Medicare Australia data on an ongoing basis. This includes data from the Medicare Benefits Schedule (MBS) and the Pharmaceutical Benefit Scheme (PBS). Data from these sources provide details of usage history of MBS and PBS.

Of the main cohort, 15.8% agreed for their BNLA survey data to be linked with the Centrelink Welfare data on an ongoing basis. Due to the low consent rate, this linkage was not progressed any further.

Due to the low consent rates received for Medicare, the linked dataset won't be released via ADA.

## 2.4. Survey weighting

For the Wave 1 dataset, 3 sets of weights are provided. They were calculated to include an adjustment for non-response and take into account the probability of selection for the entire sample, as well as for PAs and SAs separately. [Appendix C](#) contains a more detailed description of the process followed to generate these weights.

For each of the subsequent waves, 2 types of survey weights are available: population weights and longitudinal weights. Population weights adjust BNLA estimates to population totals for PAs and SAs, as well as for a combined sample of respondents. Longitudinal weights adjust for attrition between pairs of waves of BNLA data for the same 3 groups. Further information on how these weights were calculated is contained in [Appendices D-H](#).

# 3. Data files and variables

## 3.1. Data file naming conventions

The names of the available files for the BNLA general release datasets are shown in Table 3.1.

The main dataset contains the data from the PA/PR and SA/SR questionnaires. The Wave 3 child self-report dataset, *bnlasr\_c30gr*, contains data from the child self-complete and the parent-report child module questionnaires. The Wave 6 *bnlay\_f60gr* dataset contains data from the youth module questionnaire. The accompanying [BNLA Data Dictionary](#) provides a detailed list of which questions were asked of which respondents.

<sup>22</sup> youthinmind, *One-sided self-rated SDQ for 11-17 year olds*, retrieved 1 March 2017 from [www.sdqinfo.org/py/sdqinfo/b3.py?language=Englishqz\(Austral\)](http://www.sdqinfo.org/py/sdqinfo/b3.py?language=Englishqz(Austral))

<sup>23</sup> M. Hansen, T. E. Anderson, C. Armour, A. Elklit, S. Palic & T. Mackrill, (2010), *PTSD-8: A Short PTSD Inventory*, *Clinical Practice & Epidemiology in Mental Health*, vol. 6, pp. 101-108.

**Table 3.1:** BNLA general release dataset file names

Wave	Main dataset name	Child self-report/Youth module dataset name
1	<i>bnla_a20gr</i>	N/A
2	<i>bnla_b20gr</i>	N/A
3	<i>bnla_c30gr</i>	<i>bnlasr_c30gr</i>
4	<i>bnla_d40gr</i>	N/A
5	<i>bnla_e50gr</i>	N/A
6	<i>bnla_f60gr</i>	<i>bnlay_f60gr</i>

Note: N/A = not applicable.

## 3.2. Variable naming conventions

There are 3 unique identifier variables contained in the BNLA dataset:

- *xwaveid* is a unique 6-digit identification number (ID) assigned to every participant. This variable must be used to link unit records across waves.
- *xmu\_id* is a unique 4-digit ID assigned to every MU participating in the study – these 4 digits correspond to the first 4 digits of the unique 6-digit individual ID of the members of each MU. Anyone currently living in the same household as an existing member but who was not part of the original MU will not have an *xmu\_id*.
- *xhh\_id* is a unique ID assigned to every household in Wave 6. Any respondents currently living in the same household will have the same *xhh\_id*.

All other variable names (besides derived and administrative variables) are made up of a number of components and adhere closely to the following convention:

Point-in-time indicator + questionnaire module code + question number + subquestion/response option.

The point-in-time indicators are determined by when the responses are provided; that is, the time of the data collection. The point-in-time indicators, and their corresponding time of collection, are shown in Table 3.2.

Questionnaire module codes and their corresponding topics are provided in Table 3.3.

An example of the naming convention is provided for the variable *bem15\_1* (Have you found it hard getting a job for any of these reasons?) whereby:

- *b* is the point-in-time indicator representing a response collected at Wave 2
- *em* is the questionnaire module code for the Employment and income module
- *15* is the question number of the question in the module
- *\_1* is question 15's subquestion/response option of 'Reason hard get job – No suitable jobs suitable'.

**Table 3.2:** BNLA variable name point-in-time indicators and corresponding time of collection

Point-in-time indicator <sup>a</sup>	Time of data collection
<i>z</i>	Before permanent visa granted
<i>x</i>	Identifier variables
<i>a</i>	Wave 1
<i>b</i>	Wave 2
<i>c</i>	Wave 3
<i>d</i>	Wave 4
<i>e</i>	Wave 5
<i>f</i>	Wave 6

Note: (a) For easier identification, variables with the z point-in-time indicator also have '(Z: Pre-arrival)' in the variable label.



**Table 3.3:** BNLA questionnaire module codes

Module code	Topic covered
<i>de</i>	Demographics
<i>ho</i>	Housing and neighbourhood
<i>lp</i>	English language proficiency
<i>ed</i>	Education and training
<i>em</i>	Employment and income
<i>ie</i>	Immigration experience
<i>he</i>	Health
<i>ss</i>	Self-sufficiency
<i>cs</i>	Community support
<i>ls</i>	Personal resources and life satisfaction
<i>la</i>	Life in Australia
<i>cm</i>	Child Module (parent report) (Wave 3 only) Youth Module (youth self-report) (Wave 6 only)
<i>sr</i>	Child Module (child self-report) (Wave 3 only) Youth Module (youth self-report) (Wave 6 only)
<i>cg</i>	Child care and gender roles (Waves 5 and 6 only)
<i>co</i>	COVID-19

### 3.3. Missing data value conventions

Missing data are coded according to the following convention:

- Standard convention for ‘Does not apply’, ‘Don’t know’ and ‘Prefer not to say’ participant responses (explicit response options in the questionnaire):
  - 1 = Does not apply
  - 2 = Don’t know
  - 3 = Prefer not to say
- Data processing
  - 4 = Not specified
  - 5 = Not asked of Principal Respondents
  - 6 = Not asked of Secondary Respondent Adults
  - 7 = Not asked of Secondary Respondent Adolescents
  - 8 = Missing data
  - 9 = Not applicable (i.e. question skipped due to answer in a preceding question)
  - 10 = Confidentialised
  - 11 = Enumerated person (i.e. a household member who did not complete a questionnaire in this wave of the study [could include study participant or non-study participant])
  - 12 = Non-Respondent/Non-Enumerated (i.e. an individual who is a study participant or was enumerated at an earlier wave of the study but for whom no information has been collected on this occasion)
  - 13 = Partially complete record
  - 14 = Could not be derived.

### 3.4. Open field responses

There were 2 types of open field responses: responses for the qualitative data items and the ‘Other (Please specify)’ response where there is no obvious appropriate category. Responses to open field questions were recorded verbatim. Where necessary, these responses were translated into English by MMM translators.

Responses to the open field data items are included in the data release but any references that could potentially identify participants have been removed from the file and replaced with a generic term in brackets. The risk of identification is expected to be low given the confidentialised status of these data. Nonetheless, data users need to be mindful at all times of their responsibility to not risk identification of respondents.

Responses entered in 'Other (Please specify)' open field have been re-coded to existing categories where appropriate.

### 3.5. Partially complete records

The introduction of the web form meant that respondents could drop out part way through the survey. Respondents that completed at least the first 2 modules were included on the released dataset. The partial flag can be used to distinguish between fully and partially complete records, which assigns '1' to fully complete records and '2' to incomplete records. The code frame value -13 is reserved for respondents who partially completed their CAWI questionnaire. This value is assigned to variables that appear after the respondent dropped out of the survey and any derived variables where inputs have not been completed.

### 3.6. Derived items

#### Demographic characteristics and household variables

##### Age at interview: *<a-f>age*

Due to small numbers and to preserve anonymity, all survey respondents whose age variable had a value above 70 years were top-coded to the average age of those over 70 as follows:

- Wave 1 Respondents: 75 years; Enumerated: 78 years
- Wave 2 Respondents: 75 years; Enumerated: 79 years
- Wave 3 Respondents: 76 years; Enumerated: 78 years
- Wave 4 Respondents: 76 years; Enumerated: 79 years
- Wave 5 Respondents: 76 years; Enumerated: 79 years
- Wave 6 Respondents: 76 years.

##### Married or has partner: *<a-f>partnered*

This variable is based on responses provided to Marital status (recorded as 'Married', *<a-f>de06 = 1*; or 'Not married but currently has a spouse/partner', *<a-f>de07 = 1*). For Wave 6, whether the respondent 'lives with their spouse', *<fde01i\_p# = 1>* was also used, and for Waves 1–5, responses provided by the PA for the relationship of other household members to the PR (i.e. *<a-e>de3\_1*) were used.

Where a respondent or enumerated person was identified as having a spouse, the variable *<a-f>partnered* was given a value of 1 'Yes', otherwise this variable takes a value of 0 'No'.

Marital/partner status was not collected for SA Adolescents in Waves 1, 2 and 3; therefore, these respondents were given a value of -7 'Not asked of SA adolescent' for the variables *<a-c>partnered*. This was not an issue from Wave 4 as all SA Adolescents were of an age to be classified as SA Adults.

##### Country of birth

In Wave 1, PAs were asked to confirm the preloaded country of birth for each of the persons on their visa application, including themselves. The responses have been coded to 3 distinct levels of the Standard Australian Classification of Countries (SACC) 2011<sup>24</sup> hierarchy for the following variables:

- *zcob\_sacc* (Country of Birth)
- *zcob\_minor* (Country of Birth: SACC minor groups)
- *zcob\_major* (Country of Birth: SACC major groups).

<sup>24</sup> See ABS Standard Australian Classification of Countries (SACC), 2011 (cat. no. 1269.0).

## Time between arrival in Australia and interview date: *<a-f>time\_arriv*

This was calculated by subtracting the date of interview from the date of arrival held on the SDB and then grouped into categories. Neither of these 2 source variables have been retained in the dataset in the exact form; month and date of interview are kept in the data.

## MU/Household structure: *<a-b>mu\_structure/<c-e>hh\_structure*

1. Couple family with children under 18 (no other family members)
2. Couple family with children under 18 and other family members
3. Couple family only (no other family members)
4. Couple family and other family members but no children under 18
5. Single parent family with children under 18 (no other family members)
6. Single parent family with children under 18 and other family members
7. Other immediate family members
8. Other extended family members only
9. Non-related persons
10. Single person

This item classifies the composition of the MU/household based on relationships to the PR. Categories were derived using the information reported by the PR, which identifies the relationship of all household members to the PR. It should be noted that in deriving this item, every effort was made to provide a concise and useable classification without compromising detail. However, it was not possible to account for all permutations of the data. For example, if in an MU/household there was neither a spouse nor a biological child aged under 18 years but there was a combination of other immediate family (i.e. parent, sibling) as well as other extended family members, then priority was given to immediate family members, and thus given a value of 7 'Other immediate family members'. Other than this example, all categories are mutually exclusive. It should be noted that as the relationship is to the PR, if a member under 18 is the grandchild, niece or nephew of the PR, the family will not be classified as having children under 18.

There were no 'non-related person' relationships to the PA reported in the MU in Wave 1.

## Household structure: *<f>hh\_structure*

In Wave 6, all respondents were asked demographic information about other people in the household, including their age, sex, relationship to respondent, disability status and NDIS participation. Negative codes could be used to answer these questions (-1 does not apply, -2 don't know, and -3 prefer not to say), making it difficult to derive household structure. Additional categories were added to the previous household structure categories to accommodate for this. Household structure in Wave 6 has been derived in the following way:

1. Couple family with children under 18 (no other family members)
2. Couple family with children under 18 and other family members
3. Couple family only (no other family members)
4. Couple family and other family members but no children under 18
5. Single parent family with children under 18 (no other family members)
6. Single parent family with children under 18 and other family members
7. Other immediate family members
8. Other extended family members only
9. Non-related persons
10. Single person
11. Couple family with children age unknown (no other family members) (New for Wave 6)
12. Couple family with children age unknown and other family members (New for Wave 6)
13. Single parent family with children age unknown (no other family members) (New for Wave 6)
14. Single parent family with children age unknown and other family members (New for Wave 6)
15. Couple family with children (age under 18 and age unknown) (New for Wave 6)

#### 16. Single parent family with children (age under 18 and age unknown) (New for Wave 6)

In addition to the difficulty deriving household structure, because all respondents were asked these questions, discrepancies within the data exist. For example, if you compare the responses between respondents within a household, they may provide slightly different ages for the same child. Some cleaning was done to the data but discrepancies will still exist.

#### Count of negative code for relationship: *<f>countnorel*

Due to the option for respondents to select a negative value for the demographic information, specifically the 'relationship to the respondent' question, an additional variable was created to help data users fully understand the household structure. This provides a count of how many times a respondent chose a negative code for the relationship questions in the household demographic module; for example, *fde01i\_p2*, *fde01i\_p3*, etc.

Household members with a negative code for their relationship are excluded from the household structure derivation. Data users are advised to use both the *fhh\_structure* and *fcountnorel* variables when looking at the structure of the whole household.

#### MU size: *<a-b>mu\_size*

This was derived from responses provided by PAs to item A1 of the questionnaire in Waves 1 and 2.

#### Total number of household members: *<a-f>tothouse*

In Waves 1-5, this was derived from responses provided by PAs to items A1 and A2 of the questionnaire. In Wave 6 this was asked directly of each respondent at A1o\_1.

#### Remoteness Area Name: *<a-f>raname*

Remoteness Area Name values are those that correspond to the geographical remoteness classification of the suburb of the place of residence, at the time of the BNLA interview. Firstly, the suburb of the place of residence was matched to the State Suburb Code<sup>25</sup> from the Australian Statistical Geography Standard (ASGS). Then the State Suburb Code was matched to the Remoteness Structure<sup>26</sup> of the ASGS to determine the Remoteness Area Name value. For Wave 6, Remoteness Area Name was derived using the 2011, 2016<sup>27</sup> and 2021<sup>28</sup> ASGS, using the same process described above.

Table 3.4 shows which ASGS standards were used for each wave.

**Table 3.4:** Australian Statistical Geography Standards used, Main cohort, Waves 1 to 6

	2011 ASGS	2016 ASGS	2021 ASGS
Wave 1	Yes		
Wave 2	Yes		
Wave 3	Yes		
Wave 4	Yes		
Wave 5	Yes	Yes	
Wave 6	Yes	Yes	Yes

<sup>25</sup> See ABS Australian Statistical Geography Standard (ASGS): Volume 3 – Non ABS Structures, July 2011 (cat. no. 1270.0.55.003)

<sup>26</sup> See ABS Australian Statistical Geography Standard (ASGS): Volume 5 – Remoteness Structure, July 2011 (cat. no. 1270.0.55.005).

<sup>27</sup> See ABS Australian Statistical Geography Standard (ASGS): Volume 5 – Remoteness Structure, July 2016 (cat. no. 1270.0.55.005).

<sup>28</sup> See ABS Australian Statistical Geography Standard (ASGS) downloads: CG\_POSTCODE\_2022\_RA\_2021 and CG\_LOCALITY\_2022\_RA\_2021

## Socio-Economic Indexes for Areas (SEIFA)

The following SEIFA 2011<sup>29</sup> variables are available in Waves 1–6 of the data:

- *<a-f>irsad\_decile* (SEIFA: Decile of Relative Socio-Economic Advantage and Disadvantage)
- *<a-f>irsd\_decile* (SEIFA: Decile of Relative Socio-Economic Disadvantage)
- *<a-f>irer\_decile* (SEIFA: Decile of Economic Resources)
- *<a-f>ireo\_decile* (SEIFA: Decile of Education and Occupation).

SEIFA 2011 decile values are those that correspond to the suburb of the place of residence at the time of the BNLA interview.

The following SEIFA 2016<sup>30</sup> and SEIFA 2021<sup>31</sup> variables are available in the data for Wave 6:

- *firsad\_decile<16/21>* (SEIFA: Decile of Relative Socio-Economic Advantage and Disadvantage)
- *firds\_decile<16/21>* (SEIFA: Decile of Relative Socio-Economic Disadvantage)
- *firer\_decile<16/21>* (SEIFA: Decile of Economic Resources)
- *fireo\_decile<16/21>* (SEIFA: Decile of Education and Occupation).

SEIFA 2016 and SEIFA 2021 decile values are those that correspond to the suburb of the place of residence at the time of the BNLA interview.

At the time of the Wave 6 release, the following SEIFA 2016<sup>32</sup> variables were added to the Wave 5 dataset:

- *eirsad\_decile16* (SEIFA: Decile of Relative Socio-Economic Advantage and Disadvantage)
- *eirsd\_decile16* (SEIFA: Decile of Relative Socio-Economic Disadvantage)
- *eirer\_decile16* (SEIFA: Decile of Economic Resources)
- *eireo\_decile16* (SEIFA: Decile of Education and Occupation).

For the Youth cohort, only the SEIFA 2021 decile values have been added to the dataset.

## Countries lived before Australia

PAs were asked to list the countries in which they spent time before coming to Australia. Each country nominated has been coded to 3 distinct levels of SACC 2011<sup>33</sup> hierarchy across the following variables:

- *zde10a\_sacc<1-10>* (Lived before Aus - country <1-10>)
- *zde10a\_minor<1-10>* (Lived before Aus - minor group <1-10>)
- *zde10a\_major<1-10>* (Lived before Aus - major group <1-10>).

## Number of countries lived in between country of birth and Australia: *zde10a\_num*

This variable gives the value of the sum of the number of former countries of residence. It is derived using the number of countries reported in variables *zde10a\_major<1-10>*. In cases where no country information was entered in these variables *zde10a\_num* was coded as -4 'Not specified'.

## Language(s) spoken by respondents

### Home language

In Wave 1, participants were asked to nominate the language they speak at home. A catch-up item was asked in Waves 3 and 5 for respondents who had not nominated their main language spoken at home in a previous wave. In Wave 6 the same question was asked again to see the changes in their language usage at home.

<sup>29</sup> See *Census of Population and Housing: Socio-Economic Indexes for Areas (SEIFA), Australia, 2011* (cat. no. 2033.0.55.001).

<sup>30</sup> See *Census of Population and Housing: Socio-Economic Indexes for Areas (SEIFA), Australia, 2016* (cat. no. 2033.0.55.001).

<sup>31</sup> See *Socio Economic Index for Areas (SEIFA): Suburbs and Localities, Indexes, SEIFA 2021*.

<sup>32</sup> See *Census of Population and Housing: Socio-Economic Indexes for Areas (SEIFA), Australia, 2011* (cat. no. 2033.0.55.001).

<sup>33</sup> See *ABS Standard Australian Classification of Countries (SACC), 2011* (cat. no. 1269.0).

Three variables have been generated from these responses, each based upon a different level of the Australian Standard Classification of Languages (ASCL) 2011.<sup>34</sup> The variables are:

- `<a/c/e/f>lp01_lang` (Home language classification)
- `<a/c/e/f>lp01_narrow` (Home language narrow group classification)
- `<a/c/e/f>lp01_broad` (Home language broad group classification).

## Other language(s) spoken by respondents

In Wave 3, participants were also asked to list all other languages they could speak. Again, a catch-up item was asked in Wave 5 for respondents who had not answered this item in Wave 3. Similar to the home language data item, 3 sets of variables have been generated from these responses based on the ASCL 2011:

- `<c/e>lp15_lang<1-3>` (Other language classification)
- `<c/e>lp15_narrow<1-3>` (Other language narrow group classification)
- `<c/e>lp15_broad<1-3>` (Other language broad group classification).

## Number of languages other than English spoken by respondents

In Waves 3 and 5, a variable was derived from the responses to `<c/e>lp01_language` and `<c/e>lp15_language<1-3>`. The derived variable provides a count of the total number of languages spoken, other than English, and applies to all respondents. The variable is:

- `<c/e>lpotenum` (Number of languages other than English spoken by respondent).

## Education and training

Main study field – before arrival (ASCED Broad field): `zed02_asced`

Main study field – current (ASCED Broad field): `<a-f>ed02_asced`

Respondents were asked whether they had undertaken study prior to coming to Australia and since being in Australia, and were then asked to record their main area of study in 2 open-ended items:

- `zed02_asced` (Main study area before arrival in Australia)
- `<a-f>ed02_asced` (Main study area in Australia).

Responses were analysed and coded to the minor categories of the Australian Standard Classification of Education (ASCED) 2001.<sup>35</sup>

## Employment and income

Occupation before arrived (ANZSCO Sub-major groups): `zem02_<1-3>_anzsco;`  
`zem03_anzsco`

Respondents were asked to record up to 3 jobs they had prior to coming to Australia in 3 open-ended items. They were then asked to record their main occupation prior to arrival in Australia. Altogether, those 4 variables were:

- `zem02_1_anzsco` (Occupation before arrival in Australia – Occupation 1)
- `zem02_2_anzsco` (Occupation before arrival in Australia – Occupation 2)
- `zem02_3_anzsco` (Occupation before arrival in Australia – Occupation 3)
- `zem03_anzsco` (Main occupation before arrival in Australia).

Main job – Occupation (ANZSCO Sub-major group): `<a-f>em03_anzsco`

Respondents were also asked whether they had worked in the last 7 days, and were then asked to record their main occupation in Australia in an open-ended item: `<a-f>em03` (Main occupation in Australia).

<sup>34</sup> See ABS Australian Standard Classification of Languages (ASCL), 2011 (cat. no. 1267.0).

<sup>35</sup> See ABS Australian Standard Classification of Education (ASCED), 2001 (cat. no. 1272.0).

For Waves 1-5, responses were analysed and coded to the sub-major categories of the Australian and New Zealand Standard Classification of Occupations (ANZSCO), First Edition, Revision 1.<sup>36</sup> For Wave 6, responses were analysed and coded to the sub-major categories of the Australian and New Zealand Standard Classification of Occupations ANZSCO, 2022.<sup>37</sup>

### Derived weekly income (all jobs): *<a-f>em\_income*

Dollar amount derived using variables *<a-f>em08* (for the only job) and *<a-f>em11* (for multiple jobs). Respondents who were unemployed were given a value of -9 'Not Applicable'.

If both of the inputs have negative code values (-1 does not apply, -2'don't know, -3 prefer not to say), then derived weekly income will take the lowest negative code value.

### Number of financial hardship items selected: *<a-f>em26\_hardship*

For Waves 1-5, this was derived from responses provided by PAs/PRs to items E30 <a-e> of the questionnaire. In Wave 6, this was derived from responses to E30 <a-f> for all respondents.

If 2 or more of the input items are negative codes (-1 does not apply, -2 don't know, -3 prefer not to say), then the derive could not be produced and the derive output will take the value of the lowest negative code value used.

## Immigration experience

### Number of refugee camps before coming to Australia: *zie13\_x1*

Derived from responses provided by PAs to item F19 of the Wave 1 questionnaire.

### Location of refugee camps

PAs were asked to list the countries in which they spent time in refugee camps before coming to Australia. Each country nominated has been coded to 3 distinct levels of the SACC 2011<sup>38</sup> hierarchy across the following variables:

- *zie14a\_sacc<1-4>\_x1* (Location - CAMP <1-4>)
- *zie14a\_minor<1-4>\_x1* (Location - CAMP <1-4> minor groups)
- *zie14a\_major<1-4>\_x1* (Location - CAMP <1-4> major groups).

## Health scales

See section 3.7.

## Other derived variables

### Religion: *acs02\_religion*

The results are based upon the pre-loaded religion data obtained from the SDB in conjunction with the verbatim responses provided by some PAs to item I2 of the Wave 1 questionnaire.

In some cases, members of individual MUs were classified differently to others in their MU. This occurred because only PAs were asked to respond to question I2 (What is your religion?). As such, PAs were given the opportunity to update their religion from the pre-loaded response while SAs were not. In addition, some PAs and SAs had different pre-loaded religions.

Given the wide range of reasons for why MU members might have different religions, it was deemed preferable to treat all such cases as accurate, rather than change the religion categories of SAs or PAs simply to match each other.

<sup>36</sup> See ABS ANZSCO – Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1 (cat. no. 1220.0).

<sup>37</sup> See ABS ANZSCO – Australian and New Zealand Standard Classification of Occupations [www.abs.gov.au/statistics/classifications/anzsco-australian-and-new-zealand-standard-classification-occupations/latest-release](http://www.abs.gov.au/statistics/classifications/anzsco-australian-and-new-zealand-standard-classification-occupations/latest-release)

<sup>38</sup> See ABS Standard Australian Classification of Countries (SACC), 2011 (cat. no. 1269.0).

## Religion broad group classification: *acs02\_broad*

Religion data were coded to the broad level of Australian Standard Classification of Religious Groups (ASGRG) 2011<sup>39</sup> hierarchy.

## Self-esteem mean score: *als02\_esteem*

Derived from responses provided to 3 items comprising J2 on the Wave 1 questionnaire (variables *als02<a>*). The score was derived by taking an average of responses to the 3 variables. Lower values of the score refer to better self-esteem. The score was derived for all respondents who provided a valid response to at least one item in the scale.

## Self-efficacy mean score: *ls03\_efficacy*

Derived from responses provided to the 3 items comprising J3 on the Wave 1, 3, 5 and 6 questionnaires (variables *ls03<a-c>*). The score was derived by taking an average of responses to the 3 variables. Lower values of the score refer to greater self-efficacy. The score was derived for all respondents who have provided a valid response to at least one item in the scale.

For Wave 6, if negative codes are used for all 3 input items (-1 does not apply, -2 don't know, -3 prefer not to say), then the derivation takes on the lowest value negative code.

## Youth Module Derives

The SDQ is a brief behavioural screening questionnaire designed to measure the psychological adjustment of children aged 2–17 years. The SDQ is not intended to be used as a diagnostic instrument but rather as a measure of problematic emotions and behaviours across a range from normative to highly elevated.<sup>40</sup> As such, the SDQ provides an indication of children that may be experiencing clinical levels of difficulties. Further information on the SDQ can be found in the [SDQ section](#).

## 3.7. Health scales

The questionnaires include health scales that can be compared back to population norms. The following scales are used:

- Kessler 6 (K6) psychological distress<sup>41</sup>
- 8-item post-traumatic stress disorder (PTSD-8)<sup>42</sup>
- SDQ for parents or teachers of 4–17 year olds, UK English version<sup>43</sup>
- SDQ self-rated for 11–17 year olds, Australia English version.<sup>44</sup>

The item variables associated with each of the health scales are shown in Table 3.5.

39 See *ABS Australian Standard Classification of Religious Groups*, 2011 (cat. no. 1266.0).

40 L. L. Stone, R. Otten, R. C. M. E. Engels, A. A. Vermulst, J. M. A. M. Janssens (2010). Psychometric properties of the parent and teacher versions of the strengths and difficulties questionnaire for 4- to 12-year-olds: a review. *Clinical Child and Family Psychology Review* 13, 254–274.

41 R. C. Kessler, P. R. Barker, L. J. Colpe, J. F. Epstein, J. C. Gfroerer, E. Hiripi et al., (2003), Screening for Serious Mental Illness in the General Population, *Archives of General Psychiatry*, vol. 60, no. 2, pp. 184–189.

42 M. Hansen, T. E. Anderson, C. Armour, A. Elklit, S. Palic & T. Mackrill, (2010), PTSD-8: A Short PTSD Inventory, *Clinical Practice & Epidemiology in Mental Health*, vol. 6, pp. 101–108.

43 youthinmind, *One-sided SDQ for parents or teachers of 4–17 year olds*, retrieved 18 April 2017 from [www.sdqinfo.org/py/sdqinfo/b3.py?language=Englishqz\(UK\)](http://www.sdqinfo.org/py/sdqinfo/b3.py?language=Englishqz(UK))

44 youthinmind, *One-sided self-rated SDQ for 11–17 year olds*, retrieved 1 March 2017 from [www.sdqinfo.org/py/sdqinfo/b3.py?language=Englishqz\(Austral\)](http://www.sdqinfo.org/py/sdqinfo/b3.py?language=Englishqz(Austral))



**Table 3.5:** BNLA item variables for K6, PTSD-8 and SDQ scales

Scale	BNLA variables
K6	<a-f>he08<a-f>
PTSD-8 (symptoms in the past week)	<a-f>he10<a-h> c/fsr<37-45>
PTSD-8_(symptoms since the trauma/ traumatic event) (New item for Wave 6)	fde10a-h_1
SDQ (for parents of 4-17 year olds)	ccm01<a-y>_1 ccm01<a-y>_2
SDQ (self-rated for 11-17 year olds)	c/fsr<01-25>

## Kessler 6

The K6 is a measure of psychological distress. K6 score groups provide an indication of whether a severe mental illness is likely to be present or not. The scores should not be interpreted as a diagnosis of (or lack of) a mental illness.<sup>45</sup>

Values for the K6 Total Score – variable <a-f>he08\_k6score – are calculated by summing individual scores across all items in variables <a-f>he08<a-f> in accordance with the standard scoring method:

- 1 = None of the time
- 2 = A little of the time
- 3 = Some of the time
- 4 = Most of the time
- 5 = All of the time.

Values for the K6 Score Group – variable <a-f>he08\_k6group – are then derived from the <a-f>he08\_k6score values, in accordance with the standard K6 Score Group method:

- 1 = Total score 6-18 (No probable serious mental illness)
- 2 = Total score 19-30 (Probable serious mental illness).

For Wave 6, negative code values (-1 does not apply, -2 don't know, -3 prefer not to say) could be selected for any or all of the derive inputs *fhe08<a-f>*. If any negative codes were used, then the derive could not be produced. These respondents were given a value of -14 'could not be derived' for *fhe08\_k6score* and *fhe08\_k6group*. Prior to Wave 6, one negative code could be selected by a respondent (single response) that would apply to all inputs and the value of both K6 derives.

## PTSD-8

Hansen and colleagues suggest one way to score the PTSD-8 scale.<sup>46</sup> The criteria for indicating the presence of post-traumatic stress disorder (PTSD) are met if at least one symptom from each of the 3 PTSD-8 subscales has an item score of 3 or 4 (i.e. respondents answered either 3 'Sometimes' or 4 'Most of the time' for at least one item in each subscale). The 3 subscales are:

- Intrusion
- Avoidance
- Hypervigilance.

Each item in the PTSD scale has the following response options:

- 1 = Not at all
- 2 = Rarely
- 3 = Sometimes
- 4 = Most of the time.

<sup>45</sup> Further information on scoring of the Kessler-6 can be found at [www.abs.gov.au/ausstats/abs@.nsf/Lookup/4817.0.55.001Chapter92007-08](http://www.abs.gov.au/ausstats/abs@.nsf/Lookup/4817.0.55.001Chapter92007-08)

<sup>46</sup> M Hansen, T E Anderson, C Armour, A Elklit, S Palic & T Mackrill, (2010), PTSD-8: A Short PTSD Inventory, *Clinical Practice & Epidemiology in Mental Health*, vol. 6, pp. 101-108

The item variables from which each subscale is derived are listed in Table 3.6. The derived PTSD-8 variables are:

- *<a-f>he10\_ptsd8* for the main and youth dataset (PTSD symptoms in the past week)
- *fhe10\_ptsd8\_n* for the main dataset (PTSD symptoms since the event)
- *csrptsd8* for the child self-report dataset.

The PTSD variable output categories are listed below:

0 = Unlikely to have PTSD

1 = May have PTSD.

Due to the non-clinical nature of the assessment, data users are advised to treat these PTSD-8 results as indicative only. The PTSD-8 was originally designed to identify symptoms experienced between the time of trauma and the time of interview. In BNLA the questions were asked in relation to the previous week. In Wave 6 an additional question on symptoms experienced since the trauma was also included. It is important to note that all respondents were asked the questions regardless of whether they had experienced potentially traumatic events. Due to the difference in measurement methodology, the measure in BNLA more accurately reflects whether someone has experienced symptoms of PTSD in the previous week (or since the trauma in Wave 6) rather than whether they meet the criteria for PTSD.

In Wave 6, respondents were able to select negative codes as responses to individual items in the scale (-1 does not apply, -2 don't know, -3 prefer not to say). These have been treated in the same way as missing data in the child self-report dataset for Wave 3, using -14 'could not be derived', rather than -4 'not specified'. Details on the methodology can be found below.

**Table 3.6:** BNLA PTSD-8 subscale item variables for main dataset and child/youth self-report dataset

PTSD-8 subscale	Main dataset item variables	Child self-report/Youth Module dataset item variables	Wave 6 additional main dataset item variables
Intrusion	<i>&lt;a-f&gt;he10a</i> <i>&lt;a-f&gt;he10b</i> <i>&lt;a-f&gt;he10c</i> <i>&lt;a-f&gt;he10ch</i>	<i>&lt;c-f&gt;sr38</i> <i>&lt;c-f&gt;sr39</i> <i>&lt;c-f&gt;sr40</i> <i>&lt;c-f&gt;sr45</i>	<i>fhe10a_1</i> <i>fhe10b_1</i> <i>fhe10c_1</i> <i>fhe10h_1</i>
Avoidance	<i>&lt;a-f&gt;he10f</i> <i>&lt;a-f&gt;he10g</i>	<i>&lt;c-f&gt;sr43</i> <i>&lt;c-f&gt;sr44</i>	<i>fhe10f_1</i> <i>fhe10g_1</i>
Hypervigilance	<i>&lt;a-f&gt;he10d</i> <i>&lt;a-f&gt;he10e</i>	<i>&lt;c-f&gt;sr41</i> <i>&lt;c-f&gt;sr42</i>	<i>fhe10d_1</i> <i>fhe10e_1</i>

### Treatment of missing values in PTSD-8 data items in the child self-report dataset for Wave 3

Due to the pen and paper mode of data collection for the child self-report instrument, there was a small number of missing responses to one or more items in the PTSD-8 scale. In such cases, -4 'Not specified' has been recorded in the data. To derive the PTSD-8 indicator in the presence of missing values, the following protocol was adopted:

- For the Intrusion subscale, the symptom cluster criterion was met if at least one item had a score of 3 or 4 regardless of the number of missing responses. If the symptom cluster criterion was not met and one of the four items' responses was missing, the symptom cluster was scored as not meeting the criterion. If the symptom cluster criterion was not met and 2 or more of the 4 items' responses were missing, the value of the symptom cluster was set to missing.
- For the Avoidance and Hypervigilance subscales, the symptom cluster criterion was met if at least one item had a score of 3 or 4 regardless of the number of missing responses. If the symptom cluster criterion was not met and if one or both of its 2 items' responses were missing, the value of the symptom cluster was set to missing.
- For the overall PTSD-8 measure:
  - if all of the subscales' criteria were met, the PTSD-8 value was set to 'May have PTSD'
  - if all 3 subscales had a value of missing, the PTSD-8 value was set to missing ('Not specified')
  - if any of the subscales' criteria was not met, the PTSD-8 value was set to 'Unlikely to have PTSD'
  - if one or two subscales' criteria were met and the remaining subscale(s) had a value of missing, then the PTSD-8 value was set to missing ('Not specified').

## Treatment of negative codes in PTSD-8 data items for Wave 6

Due to the new data collection methodology for Wave 6, it was possible for respondents to select some or all negative codes (-1 does not apply, -2 don't know, -3 prefer not to say) in both of the PTSD-8 scales. To derive the PTSD indicators in the presence of negative codes, the following protocol was adopted:

- For the Intrusion subscale, the symptom cluster criterion was met if at least one item had a score of 3 or 4 regardless of the number of negative codes. If the symptom cluster criterion was not met and one of the four items' responses was a negative code, the symptom cluster was scored as not meeting the criterion. If the symptom cluster criterion was not met and 2 or more of the 4 items' responses were a negative code, the value of the symptom cluster was set to missing.
- For the Avoidance and Hypervigilance subscales, the symptom cluster criterion was met if at least one item had a score of 3 or 4 regardless of the number of negative codes. If the symptom cluster criterion was not met and if one or both of its two items' responses were negative codes, the value of the symptom cluster was set to missing.
- For the overall PTSD-8 measure:
  - if all of the subscales' criteria were met, the PTSD-8 value was set to 'May have PTSD'
  - if all 3 subscales were missing, the PTSD-8 value was set to -14 ('Could not be derived')
  - if any of the subscales' criteria was not met, the PTSD-8 value was set to 'Unlikely to have PTSD'
  - if one or two subscales' criteria were met and the remaining subscale(s) had a value of missing, then the PTSD-8 value was set to -14 ('Could not be derived').

## SDQ

The Strengths and Difficulties Questionnaire (SDQ)<sup>47</sup> is a brief behavioural screening questionnaire for children and young people aged 4–17 years. It consists of 25 items with 3 response options: 'Not true'; 'Somewhat true'; and 'Certainly true'. The items comprise the following 5 scales of 5 items each:

- Prosocial Behaviours
- Emotional Symptoms
- Conduct Problems
- Hyperactivity
- Peer Problems.

For each of the 5 scales, the score can range from 0 to 10 if all items were completed. These scores can be scaled up pro-rata if at least 3 items were completed.

The SDQ Total Difficulties Score is generated by summing scores from all the scales except the Prosocial scale. The resultant score has a range of 0–40 and is counted as missing if one of the four component scores is missing.<sup>48</sup> Higher values of the SDQ Total Difficulties Score indicate a higher risk of social-emotional problems. For the SDQ Prosocial Score, higher values indicate a higher likelihood of undertaking 'voluntary actions that are intended to help or benefit another individual or group of individuals'.<sup>49</sup>

The Wave 3 BNLA datasets, as well as the Wave 6 Youth Module dataset, contain a derived variable for each of the 5 SDQ scales and the Total Difficulties score.

Table 3.7 presents the derived variables for the SDQ scales and their associated item variables, separately for the main dataset and the Youth Module and the child self-report dataset.

47 © Robert Goodman

48 youthinmind, *English (Austral) Scoring instructions for SDQs for 4–17 year olds, completed by parents, teachers or self-report [and for those aged 18+]*, 11 May 2015, retrieved 24 February 2017 from [www.sdqinfo.org/py/sdqinfo/b3.py?language=Englishqz\(Austral\)](http://www.sdqinfo.org/py/sdqinfo/b3.py?language=Englishqz(Austral))

49 N. Eisenberg & P. H. Mussen, *The Roots of Prosocial Behavior in Children*, Cambridge University Press, Cambridge, 1989, p. 3.

**Table 3.7:** SDQ scale derived variables and item variables for BNLA

SDQ scale	Main dataset derived variable	Main dataset item variables	Child self-report/ Youth Module dataset derived variable	Child self-report/ Youth Module dataset item variables
Prosocial	<i>ccm01pros_&lt;1-2&gt;</i>	<i>ccm01a_&lt;1-2&gt;</i> <i>ccm01d_&lt;1-2&gt;</i> <i>ccm01i_&lt;1-2&gt;</i> <i>ccm01q_&lt;1-2&gt;</i> <i>ccm01t_&lt;1-2&gt;</i>	<i>&lt;/f&gt;srpros</i>	<i>&lt;/f&gt;sr01 &lt;/f&gt;sr04</i> <i>&lt;/f&gt;sr09 &lt;/f&gt;sr17</i> <i>&lt;/f&gt;sr20</i>
Emotional Symptoms	<i>ccm01emot_&lt;1-2&gt;</i>	<i>ccm01c_&lt;1-2&gt;</i> <i>ccm01h_&lt;1-2&gt;</i> <i>ccm01m_&lt;1-2&gt;</i> <i>ccm01p_&lt;1-2&gt;</i> <i>ccm01x_&lt;1-2&gt;</i>	<i>&lt;/f&gt;sremot</i>	<i>&lt;/f&gt;sr03 &lt;/f&gt;sr08</i> <i>&lt;/f&gt;sr13 &lt;/f&gt;sr16</i> <i>&lt;/f&gt;sr24</i>
Conduct Problems	<i>ccm01cond_&lt;1-2&gt;</i>	<i>ccm01e_&lt;1-2&gt;</i> <i>ccm01g_&lt;1-2&gt;*</i> <i>ccm01l_&lt;1-2&gt;</i> <i>ccm01r_&lt;1-2&gt;</i> <i>ccm01v_&lt;1-2&gt;</i>	<i>&lt;/f&gt;srcond</i>	<i>&lt;/f&gt;sr05</i> <i>&lt;/f&gt;sr07* &lt;/f&gt;sr12</i> <i>&lt;/f&gt;sr18 &lt;/f&gt;sr22</i>
Hyperactivity	<i>ccm01hype_&lt;1-2&gt;</i>	<i>ccm01b_&lt;1-2&gt;</i> <i>ccm01j_&lt;1-2&gt;</i> <i>ccm01o_&lt;1-2&gt;</i> <i>ccm01u_&lt;1-2&gt;*</i> <i>ccm01y_&lt;1-2&gt;*</i>	<i>&lt;/f&gt;srhype</i>	<i>&lt;/f&gt;sr02 &lt;/f&gt;sr10</i> <i>&lt;/f&gt;sr15 &lt;/f&gt;sr21*</i> <i>&lt;/f&gt;sr25*</i>
Peer Problems	<i>ccm01peer_&lt;1-2&gt;</i>	<i>ccm01f_&lt;1-2&gt;</i> <i>ccm01k_&lt;1-2&gt;*</i> <i>ccm01n_&lt;1-2&gt;*</i> <i>ccm01s_&lt;1-2&gt;</i> <i>ccm01w_&lt;1-2&gt;</i>	<i>&lt;/f&gt;srpeer</i>	<i>&lt;/f&gt;sr06 &lt;/f&gt;sr11*</i> <i>&lt;/f&gt;sr14* &lt;/f&gt;sr19</i> <i>&lt;/f&gt;sr23</i>

Note:\* indicates items reversed for scoring.

## 3.8. Confidentialisation

Some items that were asked in the survey have not been included in the dataset as these variables could potentially identify the respondent:

- Respondent's date of birth (question A1e in the MU/household grid – see PA survey); however, a derived variable, *<a-f>age*, provides the respondent's age.
- Respondent's ethnicity (question I1).
- Year of arrival in former countries of residence (question A10b – see PA survey). Due to the diverse migration pathways of respondents, this information is potentially identifying when used in conjunction with other data in question A10 (i.e. country name and time spent in each country). However, we have retained these other variables in the dataset: *zde10a\** (Country name); and *zde10c\** (Number of years and/or months spent in each country). This is sufficient to conduct meaningful analyses of these data.

The following items have also been amended to assist with retaining respondents' anonymity:

- Age (*<a-f>age*) – Due to small numbers and to preserve anonymity, all responses where the age variable had a value above 70 years were coded to the average age of participants. The averages were calculated separately for responding and enumerated persons (see section [Demographic characteristics and household variables](#)).
- Variables associated with country of birth (*zcob\_sacc* and *zcob\_minor*), countries lived in (*zde10a\_sacc<1-10>* and *zde10a\_minor<1-10>*) and locations of refugee camps (*zie14a\_sacc<1-4>\_x1* and *zie14a\_minor<1-4>\_x1*) have also been subject to confidentialisation. In these variables, countries for which there were fewer than 10 households with a member who nominated it were reclassified as -10 'Other – Confidentialised'.
- Variables associated with home languages of respondents, other languages spoken by respondents, or language of interview have also been subject to confidentialisation. In these variables, languages and narrow groups of languages that had fewer than 10 respondents were reclassified as -10 'Confidentialised'.

- Religions that were nominated by fewer than 10 households in *acs02\_religion* have also been coded as -10 'Confidentialised'.
- If a respondent reported a change in gender in Wave 6, compared to previous waves, to protect their privacy and reduce the risk of disclosure, their gender was amended back to their original gender.
- See also section 3.4 for information about treatment of open field responses.

### 3.9. Disability status and NDIS participation

In Wave 5, 2 new items were added to the PaRMS administrative household database to capture information for each household member regarding:

- Disability status (*hhdis*): 'Do you/does this person have a disability, injury or health condition that has lasted or is likely to last 12 months or more?'  
and
- Participation in the National Disability Insurance Scheme (*hhndis*): 'Are you/is this person a participant on the National Disability Insurance Scheme?'

In previous waves, respondents were asked about their own disability status within the survey (*he09*) using the same wording used in *hhdis*. For longitudinal analysis, *hhdis* can be analysed with *he09* for data users who are interested in looking at a respondent's disability status over time. Note that in Wave 5 the PA was asked the questions in relation to all members of the household and the original MU. In Wave 6, respondents were asked about their own disability status and NDIS participation as part of the questionnaire and of those within their household (non-respondents).

### 3.10. Other notes relevant to the data

#### Changes applicable to Releases 3.0 to 6.0

Starting from Release 4.0, some household member information is presented in both a household-level ('wide') format and a person-level ('long') format.

The datasets are presented in a person-level format, with one observation for each respondent and each non-responding person. Non-respondents can be identified in the dataset as either an 'Enumerated person' or 'Non-responding/Non-enumerated person' in the variable *resp*.

The following person-level variables have been derived for each person in the dataset for Waves 1-5:

- *prid* - *xwaveid* of the Principal Applicant in the Migrating Unit/household
- *hhpno* - member number in the Migrating Unit/household
- *hhrel* - relationship to the Principal Applicant in the Migrating Unit/household
- *hhlive* - whether the Respondent lives in the same household as the Principal Applicant on the original visa application.

In addition, variables listing other members of the Migrating Unit are available for each person. These are derived from PA responses to item A1 of the PA instrument, and are the same for all members of the Migrating Unit/household. These 'wide' format variables are:

- *de01a\_X* - *xwaveid* of MU/household member X
- *de0b\_X* - gender of MU/household member X
- *de01c\_X* - age of MU/household member X
- *de01d\_X* - applicant type (pre-arrival) of MU/household member X
- *de01e\_X* - country of birth of MU/household member X
- *de01f\_X* - relationship to PR of MU/household member X
- *de01g\_X* - whether member X has a disability, long-term injury or health condition
- *de01h\_X* - whether member X is a participant of NDIS.

Another change since Release 3.0 was the addition of code 3 'Deceased' to the response categories for *hhlive*.

In Wave 6 there were no separate questionnaires for PAs or SAs. That is, all participants completed the same questionnaire. Some of the variables mentioned above could not be produced for Wave 6 because of this change in participant types and the method of collecting the household demographic information (the household grid PaRMS was no longer in use). All respondents were asked about other people in their household. The variables below relate to other members in the household:

- *fde01d\_X* – gender of MU/household member X
- *fde01g\_X* – age of MU/household member X
- *fde01i\_X* – relationship to respondent X
- *fde01m\_X* – whether member X has a disability, long-term injury or health condition
- *fde01n\_X* – whether member X is a participant of NDIS.

Wave 6 also introduced a new set of questions that asked whether respondents were still living with BNLA participants from Waves 4 and 5. The respondents were shown the names of the participants and would answer 1. Yes; 2. No; 3. Deceased. The purpose of these variables is for data users to be able to identify BNLA respondents living together and adjust for clustering in their analysis, if needed. The variable names are as follows:

- *fde12\_r1*
- *fde12\_r2*
- *fde12\_r3*
- *fde12\_r4*
- *fde12\_r5*.

## Self-reported data

Data users should note that all data are self-reported. This may explain some slightly anomalous data such as the small number of participants who reported far higher levels of government income support payments than expected (see variable *<a-f>em19*).

## Missing data

For a number of numeric variables the survey programming did not force a response to be entered on the screen (i.e. the respondent could move on to the next question without entering a response). For Waves 1-5, in such cases, -4 'Not specified' has been recorded. All other questions besides verbatim responses were formatted to ensure that a response was provided. For a small number of variables in Wave 1, data were not collected where it would otherwise have been expected based on the sequencing of the survey. This arose due to a technical issue with the administration of the survey that allowed respondents to skip through survey screens. The number of cases with missing data for this reason ranged from one to five cases across these variables. The variables affected by this issue are listed in Table 3.8.

Due to an error in the sequencing of respondents in the Wave 1 Employment section, only a small proportion of eligible respondents were asked the following 2 questions:

- E22 Even though you are not currently working, would you like to get a job?
- E23 What are the reasons you do not want to get a job? (Mark all that apply.)
- As a result, responses to these 2 questions have been removed from the dataset.

In Wave 4, a small number of respondents had missing data in questions related to partner or children because of incorrect or not up-to-date information in the MU grid. In these cases, the information in the MU grid was updated after the survey had been completed. The variables affected and the number of missing cases are shown in Table 3.9.

## Relationship to PA data item

Information concerning household members' relationship to the PA was obtained from the PA in Waves 1-5. In Wave 1, relationship information was obtained from the SDB and pre-populated in the questionnaire. Prior to conducting the interview, all such information was updated by the PA (i.e. name, age, gender, country of birth and relationship to PA for all MU members). In a small number of cases ( $n = 49$  MUs), the field researcher did not update all information in the MU grid. In these cases, the MU grid data contain the original administrative information supplied in the SDB. Efforts were made to recontact relevant MUs to update this information with

the correct relationship classification; however, this was not possible in all cases. It is for this reason that some relationship data are coded as 'Dependent', without further classification.

**Table 3.8:** Variables skipped in error in Wave 1 due to technical issue

Variables			
<i>ade06</i>	<i>aho08&lt;a-g&gt;</i>	<i>aem13b1</i>	<i>ass01a</i>
<i>ade07</i>	<i>alp09</i>	<i>aem13b2</i>	<i>ass01&lt;b-i&gt;</i>
<i>ade08</i>	<i>alp10_&lt;1-3&gt;</i>	<i>aem13b3</i>	<i>acs03&lt;a-c&gt;</i>
<i>ade11</i>	<i>alp13_&lt;1-5&gt;</i>	<i>ahel1_7</i>	<i>acs08d</i>

**Table 3.9:** Missing data in partner and children questions in Wave 4

Variable	Number of missing cases
<i>dde07</i>	1
<i>dhe11_8</i>	24
<i>dss01c</i>	24
<i>dcs09a-dcs09g</i>	24
<i>dls13a-dls13c</i>	1

## Interview dates

Data users should be aware that although technical procedures<sup>50</sup> were in place during Wave 1 fieldwork to ensure that respondents in the offshore group were not interviewed less than 3 months after their arrival in Australia, there are 39 offshore arrivals recorded as having arrived less than 3 months earlier. Investigations into this reveal a number of distinct explanations including:

- Some field researchers updated the regional settings on their tablet computers, which would have reset the time zone and date format resulting in an incorrect interview date being recorded.
- Some field researchers may have accessed the survey directly through Survey Centre<sup>51</sup> rather than the Participant and Respondent Management System (PaRMS), which would have overridden the technical checks in place in PaRMS.

However, it is clear that if any individuals were interviewed before they had been in Australia for 3 months it would have been no more than a few days before their eligibility date.

## Length of time in Australia

Data users should also be aware that respondents in the onshore group (e.g. visa subclass 866) have been in Australia for longer on average than their offshore counterparts. As discussed in section 2, to be eligible for the study, offshore visa holders had to have arrived in Australia holding a permanent visa 3–6 months prior to their Wave 1 interview, whereas onshore visa holders had to have received their permanent protection visa in the same 3–6 month period prior to Wave 1 to be eligible for the study. It is important to be mindful of this when making data comparisons between the onshore and offshore groups.

The length of time between arrival in Australia and the Wave 1 interview is detailed in Table 3.10. A minimum of 9 months was required to elapse between each main wave interview after Wave 1 (see also the section [Interview mode Wave 6](#)).

## PA report responses

For a number of variables, responses provided by PAs have been copied across to the corresponding fields of SAs in their respective MUs. This was done for questions that were asked of PAs but not of SAs but the responses

<sup>50</sup> Surveys are accessed primarily through the Participant and Respondent Management System (PaRMS). Logic was built into the PaRMS system to ensure that records were not activated or released to field researchers until 3 months after arrival for offshore respondents, and 3 months after visa grant date for onshore respondents.

<sup>51</sup> Survey Centre is the software into which responses to survey questions were recorded directly on the tablet computer.

provided by PAs were deemed to be relevant to all the SAs in their MU (e.g. housing in Australia, some migration pathways and financial hardship). Variables for which this has been undertaken can be identified in 2 ways:

- the variable's label in all such cases includes the text '(PR Report)'
- the Data Dictionary identifies such variables in the *w<1-5>PRreport* field as 'Yes'.

**Table 3.10:** Number of days between date of arrival in Australia and Wave 1 interview, by migration pathway – number of respondents

Number of days between arrival in Australia and Wave 1 interview	Migration Pathway		Total
	Onshore	Offshore	
Less than 3 months	0	39	39
3 to less than 6 months	0	1,766	1,766
6 to less than 12 months	12	214	226
1 to less than 2 years	283	0	283
2 to less than 3 years	40	0	40
3 or more years	45	0	45
<b>Total</b>	<b>380</b>	<b>2,019</b>	<b>2,399</b>

**Notes:** Data are unweighted. 95% of offshore respondents categorised as having been in Australia for 6–12 months had only been in Australia for approximately 6 months and 1 week.

## Wave 6 data file format

In Waves 1–5, the datafile was released in a long format, with an observation for each respondent and their household members. For Wave 6 a long format file will not be produced. The data will be released in a wide format only, containing an observation for each respondent and an observation for each non-responding sample member.

Due to changes in the collection of the household demographic data for Wave 6, it was not possible to attach *xwaveids* to the enumerated persons within a household. Therefore, enumerated household members in Wave 6 cannot be linked to previous waves.

## Misreporting of household demographic data within a household

Demographic data for other members of the respondent's household were previously managed in PaRMS and updated by the interviewer via the PA. For Wave 6 every respondent had the opportunity to report on demographic data for their household. When using the *xhh\_id* variable you can determine which respondents are in the same household and this can highlight differences in reporting. For example, 2 BNLA sample members are parents and they have reported different ages for their child. Other examples of misreporting could be the misreporting of a child's age by the parents, reporting of different relationships in the household, or reporting different numbers of people within a household. These data were cleaned and amended where an amendment could be made with full confidence. As a result, misreporting still exists within the dataset.

## 3.11 Data access and further information

The General Release BNLA datasets are available to download, free of charge, through the Dataverse platform hosted by the Australian Data Archive (ADA). There are strict security and confidentiality protocols surrounding use of the data. Prospective users are required to complete a Data Access Request. Before applying for access to the data, researchers should make themselves familiar with the Data Access protocols. These are available at the ADA website at DSS Longitudinal Studies Dataverse ([ada.edu.au](http://ada.edu.au)).

More information about the study can be found at the BNLA website: [bnla.aifs.gov.au](http://bnla.aifs.gov.au)

Enquires can also be sent via email to: [bnladatamanager@aifs.gov.au](mailto:bnladatamanager@aifs.gov.au)



## Appendix A: Sample characteristics

The distribution of country of birth for the BNLA eligible sample is described in Table A.1.

**Table A.1:** BNLA eligible sample - Country of birth

Country of birth	Proportion of sample (%)
Afghanistan	23.8
Bhutan	2.3
Congo, Democratic Republic of	1.4
Egypt	3.4
Eritrea	1.5
Ethiopia	2.0
India	0.6
Iran	10.0
Iraq	25.8
Libya	0.8
Myanmar (Burma)	12.0
Nepal	0.1
Pakistan	4.6
Sri Lanka	2.5
Sudan	0.6
Syria	1.3
Other - Confidentialised	7.3
<b>Total</b>	<b>100.0</b>

Source: DIBP SDB

## Appendix B: Survey completion overview

A sample size of 1,500 PAs was the target for Wave 1 of the study, with no constraints on the number of SAs per MU. The initial sample targets were for 70% offshore and 30% onshore, with all eligible MUs to be contacted (i.e. a census approach). A quota approach was to be used to recruit the onshore cohort (given the considerably larger numbers expected to be available than needed). These parameters were subsequently revised due to the implementation of offshore processing in the lead-up to the main wave. This policy change resulted in a sudden decline in the number of persons being granted onshore protection visas. Targets were adjusted to accommodate the lower number of onshore MUs anticipated to be available, with a census approach instead of a quota approach used to recruit the onshore sample. As seen in Table B.1, the 866 UMA quota was reduced and the deficit was made up in the 200 and 204 visa subgroups. The revised sample targets were 77% offshore and 23% onshore MUs (i.e. at the PA level).

For Wave 2 onwards, the quota values were calculated using the number of achieved interviews in Wave 1 as the base value and an assumed 10% attrition rate for each subsequent wave. For example, for the 200 visa class in Wave 2, based on 942 achieved interviews in Wave 1 and an assumed attrition rate of 10%, the quota for Wave 2 was 848 (i.e. 847.8 rounded to the nearest whole number). Then, based on the unrounded quota value of 847.8 in Wave 2 and an assumed attrition rate of 10%, the quota for the 200 visa class for Wave 3 was 736 (i.e. 736.02 rounded to the nearest whole number).

Prior to the commencement of Wave 4, new sample targets were established. The new sample targets aimed to achieve the number of interviews completed in the previous wave. Based on Wave 3 achieved interviews, the Wave 4 sample targets were: 1,188 PAs and 706 SAs. Adjusted sample targets were also established for Wave 5. The decision was made to define the target as the number of interviews completed in the previous face-to-face wave (Wave 3). Based on the Wave 3 achieved interviews, the Wave 5 sample targets were 1,188 PAs and 706 SAs.

**Table B.1:** Wave 1 MU targets by visa subclass

Visa subclass	Original quota		Revised quota	
	Number of PAs	Proportion of sample (%)	Number of PAs	Proportion of sample (%)
Offshore	1,050	70.0	1,160	77.0
200	850	56.7	940	62.7
201	8	<1	8	<1
202	40	2.7	40	2.7
203	2	<1	2	<1
204	150	10.0	170	11.3
Offshore	450	30.0	340	23.0
866 UMA	360	24.0	250	16.7
866 non-UMA	90	6.0	90	6.0
<b>Total</b>	<b>1,500</b>	<b>100.0</b>	<b>1,500</b>	<b>100.0</b>

### B.1. Wave 1 survey completion

The following 3 tables describe the gender breakdown of participants in each visa class subgroup for Wave 1. Each table focuses on one of the three respondent types: PAs (Table B.2); SA Adults (Table B.3); or SA Adolescents (Table B.4).

The majority of PAs (70%;  $n = 1,061$ ) in Wave 1 were male (Table B.2). In contrast, most SA Adults were female (75%;  $n = 567$ ; Table B.3). SA Adolescents were more evenly divided between males and females (57% and 43% respectively; Table B.4).

As can be seen in Table B.2, the majority of PAs were male in visa class 200 and in both onshore visa classes 866 UMA and 866 non-UMA. Unsurprisingly, visa class 204 (Woman at Risk) is overwhelmingly made up of women as

this category provides asylum to women who do not have the protection of a male relative and are in danger of victimisation, harassment or serious abuse because of their gender.<sup>52</sup>

Although the majority of people who are issued 204 visas are female, a small number of males also enter Australia under this visa class as children or other family members of a primary applicant who is female. This occurs when a subclass 204 visa holder proposes a son or other family member who happens to be male. They then receive the same visa subclass as the 204 proposer. This is the case for the  $n = 38$  male survey participants in this visa class.

**Table B.2:** PAs – Survey completion, by visa subclass and gender, Wave 1

PA interviews achieved	Offshore (n)					Onshore (n)		Total (n)
	200	201	202	203	204	866 UMA	866 non-UMA	
Gender								
Male	745	5	16	0	3	229	63	1,061
Female	197	3	26	0	180	5	37	448
Total	942	8	42	0	183	234	100	1,509
Quota	940	8	40	2	170	250	90	1,500
Proportion of quota	100%	100%	105%	0%	108%	94%	111%	101%

**Table B.3:** SA Adults – Survey completion, by visa subclass and gender, Wave 1

SA Adult interviews achieved	Offshore (n)					Onshore (n)		Total (n)
	200	201	202	203	204	866 UMA	866 non-UMA	
Gender								
Male	148	2	9	0	23	3	3	188
Female	453	0	22	0	55	21	16	567
<b>Total</b>	<b>601</b>	<b>2</b>	<b>31</b>	<b>0</b>	<b>78</b>	<b>24</b>	<b>19</b>	<b>755</b>

**Table B.4:** SA Adolescents – Survey completion, by visa subclass and gender, Wave 1

SA Adolescent interviews achieved	Offshore (n)					Onshore (n)		Total (n)
	200	201	202	203	204	866 UMA	866 non-UMA	
Gender								
Male	40	0	3	0	12	2	1	58
Female	45	0	13	0	19	0	0	77
<b>Total</b>	<b>85</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>31</b>	<b>2</b>	<b>1</b>	<b>135</b>

<sup>52</sup> Department of Home Affairs, *Subclass 200, 201, 203 and 204 Refugee category visas* at [www.immi.homeaffairs.gov.au/visas/getting-a-visa/visa-listing/refugee-200](http://www.immi.homeaffairs.gov.au/visas/getting-a-visa/visa-listing/refugee-200)

## B.2. Wave 2 survey completion

In Wave 2, interviews were achieved with 1,268 PAs (84% of Wave 1), 626 SA Adults (83% of Wave 1) and 115 SA Adolescents (85% of Wave 1). While the 90% quota target for PAs was not achieved in Wave 2, all visa subclasses (excluding visa 204) were within 90% to 97% of the target. As previously outlined, the largest reason for non-response was due to an inability to make contact.

The following 3 tables describe the gender breakdown of participants in each visa class subgroup for Wave 2. Each table focuses on one of the three respondent types: PAs (Table B.5); SA Adults (Table B.6); or SA Adolescents (Table B.7).

**Table B.5:** PAs - Survey completion, by visa subclass and gender, Wave 2

PA interviews achieved	Offshore (n)					Onshore (n)		Total (n)
	200	201	202	203	204	866 UMA	866 non-UMA	
Gender								
Male	636	4	15	2	192	52	901	1,061
Female	171	3	20	139	4	30	367	448
Total	807	7	35	141	196	82	1,268	1,509
Quota	848	7	38	165	211	90	1,358	1,500
Proportion of quota	95%	97%	93%	86%	93%	91%	93%	101%

**Table B.6:** SA Adults - Survey completion, by visa subclass and gender, Wave 2

SA Adult interviews achieved	Offshore (n)				Onshore (n)		Total (n)
	200	201	202	204	866 UMA	866 non-UMA	
Gender							
Male	131	2	5	20	3	2	163
Female	374	0	15	47	16	11	463
<b>Total</b>	<b>505</b>	<b>2</b>	<b>20</b>	<b>67</b>	<b>19</b>	<b>13</b>	<b>626</b>

**Table B.7:** SA Adolescents - Survey completion, by visa subclass and gender, Wave 2

SA Adolescent interviews achieved	Offshore (n)			Onshore (n)	Total (n)
	200	202	204	866 UMA	
Gender					
Male	36	3	7	2	48
Female	39	10	18	0	67
<b>Total</b>	<b>75</b>	<b>13</b>	<b>25</b>	<b>2</b>	<b>115</b>

### B.3. Wave 3 survey completion

In Wave 3, interviews were achieved with 1,155 PAs (77% of Wave 1), 624 SA Adults (83% of Wave 1) and 115 SA Adolescents (85% of Wave 1). Overall, 95% of the quota target for PAs was achieved in Wave 3, with participants holding a 200, 201 and 204 visa subclass achieving the highest percentage of the quota (between 99% and 107%).

The following 3 tables describe the gender breakdown of participants in each visa class subgroup for Wave 3. Each table focuses on one of the three respondent types: PAs (Table B.8); SA Adults (Table B.9); or SA Adolescents (Table B.10).

**Table B.8:** PAs - Survey completion, by visa subclass and gender, Wave 3

PA interviews achieved	Offshore (n)				Onshore (n)		Total (n)
	200	201	202	204	866 UMA	866 non-UMA	
Gender							
Male	591	4	14	2	157	38	806
Female	161	2	14	145	3	24	349
Total	752	6	28	147	160	62	1,155
Quota	763	6	34	148	190	81	1,222
Proportion of quota	99%	100%	82%	107%	84%	77%	95%

**Table B.9:** SA Adults - Survey completion, by visa subclass and gender, Wave 3

SA Adult interviews achieved	Offshore (n)				Onshore (n)		Total (n)
	200	201	202	204	866 UMA	866 non-UMA	
Gender							
Male	123	1	5	21	1	2	153
Female	389	0	15	46	12	9	471
<b>Total</b>	<b>512</b>	<b>1</b>	<b>20</b>	<b>67</b>	<b>13</b>	<b>11</b>	<b>624</b>

**Table B.10:** SA Adolescents - Survey completion, by visa subclass and gender, Wave 3

SA Adolescent interviews achieved	Offshore (n)			Onshore (n)	Total (n)
	200	202	204	866 UMA	
Gender					
Male	33	3	10	1	47
Female	41	10	17	0	68
<b>Total</b>	<b>74</b>	<b>13</b>	<b>27</b>	<b>1</b>	<b>115</b>

## B.4. Wave 4 survey completion

In Wave 4, interviews were achieved with 1,186 PAs (79% of Wave 1) and 743 SAs (83% of Wave 1, including adolescents). The following 2 tables show survey completion by gender and visa subclass for Wave 4 (Table B.11 for PAs and Table B.12 for SAs).

**Table B.11:** PAs – Survey completion, by visa subclass and gender, Wave 4

PA interviews achieved	Offshore (n)				Onshore (n)		Total (n)
	200	201	202	204	866 UMA	866 non-UMA	
Gender							
Male	162	3	15	151	3	24	358
Female	622	4	14	3	143	42	828
<b>Total</b>	<b>784</b>	<b>7</b>	<b>29</b>	<b>154</b>	<b>146</b>	<b>66</b>	<b>1,186</b>

**Table B.12:** SA Adults – Survey completion, by visa subclass and gender, Wave 4

SA interviews achieved	Offshore (n)				Onshore (n)		Total (n)
	200	201	202	204	866 UMA	866 non-UMA	
Gender							
Male	430	0	24	63	12	10	539
Female	157	2	7	31	5	2	204
<b>Total</b>	<b>587</b>	<b>2</b>	<b>31</b>	<b>94</b>	<b>17</b>	<b>12</b>	<b>743</b>

## B.5. Wave 5 survey completion

In Wave 5, a total of 1,881 interviews were achieved, which included 1,144 PAs (76% of Wave 1) and 737 SAs (83% of Wave 1). Inability to contact respondents was the largest reason for non-response, with only around 5% of respondents who were successfully contacted in Wave 5 refusing an interview. The following 2 tables show survey completion by gender and visa subclass for Wave 5 (Table B.13 for PAs and Table B.14 for SAs).

**Table B.13:** PAs – Survey completion, by visa subclass and gender, Wave 5

PA interviews achieved	Offshore (n)				Onshore (n)		Total (n)
	200	201	202	204	866 UMA	866 non-UMA	
Gender							
Male	598	4	15	2	148	30	797
Female	155	3	17	147	2	23	347
<b>Total</b>	<b>753</b>	<b>7</b>	<b>32</b>	<b>149</b>	<b>150</b>	<b>53</b>	<b>1,144</b>

**Table B.14:** SAs - Survey completion, by visa subclass and gender, Wave 5

SA interviews achieved	Offshore (n)				Onshore (n)		Total (n)
	200	201	202	204	866 UMA	866 non-UMA	
Gender							
Male	154	2	8	31	2	2	199
Female	423	0	23	69	15	8	538
<b>Total</b>	<b>577</b>	<b>2</b>	<b>31</b>	<b>100</b>	<b>17</b>	<b>10</b>	<b>737</b>

## B.6. Wave 6 survey completion

In Wave 6, a total of 1,223 interviews were achieved. Due to the long break between Waves 5 and 6, the inability to contact respondents contributed to a higher than average non-response. The following table shows survey completion by gender and visa subclass for Wave 6 (Table B.15).

For the Youth cohort, a total of 133 interviews were achieved.

**Table B.15:** All respondents - Survey completion, by visa subclass and gender, Wave 6

Interviews achieved	Offshore (n)				Onshore (n)		Total (n)
	200	201	202	204	866 UMA	866 non-UMA	
Gender							
Male	484	5	14	19	89	26	637
Female	386	3	27	134	12	23	585
Prefer not to say	0	0	0	1	0	0	1
<b>Total</b>	<b>870</b>	<b>8</b>	<b>41</b>	<b>154</b>	<b>101</b>	<b>49</b>	<b>1,223</b>

## Appendix C: Wave 1 survey weighting

An analysis of non-response was undertaken where the characteristics of the Wave 1 participating individuals were compared with all eligible participants on the DIBP sample frame ( $n = 7,362$ ). A range of factors were considered in this analysis including gender, visa subclass, age, location of residence, family size, marital status and country of birth.

Multivariate logistic models were then fitted to identify the factors associated with survey completion, with 2 separate models being fitted. The first model explored the factors predicting participation of PAs, the second model examined the characteristics related to participation by SAs.

Significant variables predicting PA participation included:

- visa subclass
- location of residence
- family size
- country of birth.

For SAs, survey completion was significantly associated with:

- gender
- visa subclass
- location of residence
- age
- country of birth
- married females in a household with a male PA.

Compared to the eligible PA sample, the survey had lower representation of PAs living in capital cities. Other factors associated with a lower probability of participation included smaller sized families, participants with a non-UMA visa subclass<sup>53</sup> and those born in Burma/Myanmar, the rest of Asia or Africa.

Analysis at the SA level revealed that being older, a male SA, living in a capital city, having a non-UMA visa subclass, being born in Burma/Myanmar, the rest of Asia or Africa, and not being a married female in a household with a male PA were all significantly associated with lower levels of survey participation.

The analysis above identified that different factors explained survey completion between PAs and SAs. To further investigate the appropriateness of calculating a survey weight across both PA and SA participants a variance components model was also estimated. A model with and without covariates was fitted. The results from the unadjusted model showed that only around 11% of the variance in survey completion was explained at the individual level (i.e. SA level). A model with the covariates found significant in the PA analysis described earlier was also fitted.<sup>54</sup> These variable inclusions added little further explanatory power when compared to the unadjusted model. Given the low level of variance explained at the SA level, these results suggested it was appropriate to also calculate a single survey weight covering both PAs and SAs (variable: *awgt*), in addition to a PA level (*apawgt*) and SA level weight (*asawgt*).

To adjust for the differential pattern in non-response described above, survey weights were calculated using the ipfweight algorithm (also known as raking) in Stata authored by Michael Bergmann.<sup>55</sup> The ipfweight procedure is based on work first proposed by Deming and Stephan (1940)<sup>56</sup> and adjusts survey sample weights to achieve population totals. In this case, the population was humanitarian migrants being granted a permanent visa or arriving in Australia between May and December 2013.<sup>57</sup> Three survey weights were calculated using this procedure and are available for use in the BNLA Wave 1 dataset. The survey weights and their variable names are described further below.

<sup>53</sup> A quota was in place for participants with a non-UMA visa subclass.

<sup>54</sup> Family size was excluded from the variance components model as this variable was not statistically significant when this model was estimated. Age was also included as an explanatory variable in this model.

<sup>55</sup> See [fmwww.bc.edu/repec/bocode/i/ipfweight.html](http://fmwww.bc.edu/repec/bocode/i/ipfweight.html) for further detail. Accessed on 29/4/2014.

<sup>56</sup> Deming, W. E., & Stephan, F. F. (1940). On a least squares adjustment of a sampled frequency table when the expected marginal totals are known, *The Annals of Mathematical Statistics*, 11(4), 427-444.

<sup>57</sup> Offshore visa holders had to have **arrived** in Australia holding a permanent visa, while onshore visa holders had to have **received** their protection visa in this time period.



1. *apawgt* - PA survey weight. The following variables were used in the weighting procedure for this variable: visa subclass, capital city, family size and country of birth. The generated survey weight ranged in value from 0.40 to 4.11. After examining the distribution and factors associated with higher survey weights, the calculated survey weights were capped at a maximum value of 2.5 (27 out of 1,509 PAs in Wave 1 had an initial survey weight greater than 2.5). It is recommended that this survey weight be used for analysis involving only questions asked of PAs.
2. *asawgt* - SA survey weight. Visa subclass, capital city, age, country of birth and married female variables were used in the weighting procedure for this variable. Survey weights ranged in value from 0.47 to 6.35. As with the PA level weight, the SA level survey weight was constrained to take on a maximum value of 2.5 (involving 13 out of 890 cases). It is recommended that this survey weight be used for analysis involving only questions asked of SAs.
3. *awgt* - all participant survey weight. Gender, visa subclass, capital city, age and country of birth information were used in the weighting for this variable. This survey weight ranged from 0.37 to 4.28 and was also capped at a maximum value of 2.5 (involving 37 out of 2,399 cases). It is recommended that this survey weight be used when analysing survey questions asked of both PA and SA respondents.

While not specifically designed for this purpose, the all participant survey weight (*awgt*) is the most appropriate survey weight to use when analysing variables for which responses provided by PAs have been copied across to the corresponding SAs in their MU.

## Appendix D: Wave 2 survey weighting

This section describes the process used to calculate survey weights for the Wave 2 sample of BNLA. Two types of survey weights were calculated and are available on the Wave 2 dataset:

1. A population weight, which is a variable that adjusts BNLA estimates to population totals (in this case, the population of humanitarian migrants who have been granted a permanent visa or arrived in Australia between May and December 2013).<sup>58</sup>
2. A longitudinal weight, which is a variable that adjusts for attrition between the first and second wave of BNLA data.

### D.1. Calculation of Wave 2 population weights

The same process was used to calculate Wave 2 population weights as was followed for Wave 1 survey weighting. Appendix C describes this methodology more fully but, in brief, an analysis of non-response was undertaken to compare the characteristics of the Wave 2 participating sample with all eligible PAs and SAs on the DIBP sample frame.<sup>59,60</sup> This was done using multivariate logistic models to identify the factors associated with Wave 2 survey completion. As in Wave 1, 2 separate statistical models were fitted – the first explored the factors predicting participation of PA participants and the second model identified factors associated with SA participation. A third model was also fitted, which examined the characteristics associated with survey completion of all participants.

### PA participation in Wave 2

The multivariate logistic model results predicting Wave 2 PA participation are described in Table D.1, which has a breakdown of potential BNLA participants by characteristics drawn from the SDB. Based on the model results, statistically significant variables predicting PA participation included:

- visa subclass
- region
- family size
- country of birth.

**Table D.1:** Results of multivariate logistic regression modelling PA survey participation in Wave 2

SDB characteristic	Odds ratio	Standard error	p-value
<b>Gender</b>			
Male	1.018	0.099	0.851
Female	1 (Base)		
<b>Site</b>			
Site 1	0.721	0.183	0.199
Site 2	0.264	0.066	0.000***
Site 3	1.318	0.449	0.416
Site 4	0.428	0.178	0.041*
Site 5	0.499	0.169	0.041*
Site 6	0.543	0.125	0.008**
Site 7	0.550	0.195	0.092
Site 8	0.259	0.070	0.000***
Site 9	0.273	0.063	0.000***

58 Offshore visa holders had to have **arrived** in Australia holding a permanent visa, while onshore visa holders had to have **received** their protection visa in this time period to be eligible for participation in the BNLA.

59  $n = 7,362$  individuals in 4,035 MUs were eligible for selection. For more information about the sampling and sampling frame refer to the Wave 1 Data Users Guide.

60 As we do not know the population of SAs who move out of the household, PA survey weights are derived for the original PAs and SA survey weights are derived for the original SAs (even in those cases where SAs moved out of the original household after Wave 1).

SDB characteristic	Odds ratio	Standard error	p-value
Site 10	0.460	0.161	0.027*
Site 11	1 (Base)		
<b>Visa subclass</b>			
200	1 (Base)		
201	1.384	0.646	0.487
202	0.780	0.179	0.282
203	-	-	-
204	0.914	0.138	0.552
866 non-UMA	0.413	0.081	0.000***
866 UMA	1.373	0.222	0.050*
<b>Family size</b>			
0	1 (Base)		
1	1.156	0.186	0.368
2	1.336	0.270	0.153
3	1.775	0.359	0.005**
4 or more	1.769	0.323	0.002***
<b>Country of birth</b>			
Afghanistan	1 (Base)		
Iran	1.036	0.147	0.798
Iraq	1.663	0.198	0.000***
Burma/Myanmar	0.327	0.048	0.000***
Rest of mid-East	1.216	0.219	0.277
Rest of Asia	0.743	0.117	0.060
Africa	0.414	0.065	0.000***
Rest of world	0.689	0.535	0.632
<b>Constant</b>	<b>0.960</b>	<b>0.289</b>	<b>0.893</b>

Note: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . Gender included as a control variable. Locations of sites have not been named to protect participant confidentiality.

Compared to the eligible PA sample, the recruited Wave 2 sample generally had lower representation of PAs living in capital cities. Smaller sized families, participants with a non-UMA visa subclass,<sup>61</sup> and those born in Burma/Myanmar or Africa were also factors associated with a lower probability of participation in Wave 2. Those PAs who held an 866 UMA visa subclass and had been born in Iraq were significantly associated with a higher probability of participation in the second wave.

## SA participation in Wave 2

The multivariate logistic model results predicting Wave 2 SA participation are described in Table D.2, which has a breakdown of potential BNLA participants by characteristics drawn from the SDB.

Analysis of factors associated with SA participation in Wave 2 revealed the following participant characteristics were associated with Wave 2 survey completion:

- visa subclass
- region
- age
- country of birth
- household structure.

<sup>61</sup> A quota was in place for participants holding a non-UMA visa subclass.

When compared to the eligible SA population, the following characteristics were significantly associated with lower levels of Wave 2 survey completion: older age, living in a capital city, holding an 866 non-UMA visa subclass, being born in Burma/Myanmar, rest of the mid-East or Africa. SA participants who lived in MUs with a male PA and were married were found to have higher levels of survey participation.

**Table D.2:** Results of multivariate logistic regression modelling SA survey participation in Wave 2

SDB characteristic	Odds ratio	Standard error	p-value
<b>Gender</b>			
Male	0.846	0.100	0.161
Female	1 (Base)		
<b>Site</b>			
Site 1	0.831	0.342	0.655
Site 2	0.224	0.089	0.000***
Site 3	0.865	0.438	0.776
Site 4	1.282	1.081	0.768
Site 5	0.343	0.161	0.023*
Site 6	0.343	0.128	0.004**
Site 7	0.126	0.156	0.096
Site 8	0.205	0.101	0.001**
Site 9	0.291	0.110	0.001**
Site 10	0.094	0.054	0.000***
Site 11	1 (Base)		
<b>Visa subclass</b>			
200	1 (Base)		
201	0.899	0.752	0.900
202	0.869	0.279	0.663
203	-	-	-
204	1.200	0.306	0.475
866 non-UMA	0.327	0.105	0.001**
866 UMA	1.155	0.395	0.674
<b>Age</b>			
Age (continuous years)	0.989	0.003	0.001**
<b>Country of birth</b>			
Afghanistan	1 (Base)		
Iran	1.110	0.236	0.622
Iraq	1.177	0.263	0.465
Burma/Myanmar	0.182	0.054	0.000***
Rest of mid-East	0.416	0.172	0.034*
Rest of Asia	0.685	0.173	0.135
Africa	0.283	0.081	0.000***
Rest of world	-	-	-
<b>Household type</b>			
Male PA	1 (Base)		
Male PA / married female SA	1.620	0.301	0.009**
Male PA / unmarried male or female SA	0.843	0.161	0.374

SDB characteristic	Odds ratio	Standard error	p-value
Male PA / Child 15-17 years	0.712	0.160	0.132
<b>Constant</b>	<b>1.406</b>	<b>0.604</b>	<b>0.428</b>

Notes: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . Gender included as a control variable. Locations of sites have not been named to protect participant confidentiality.

## Outcomes of Wave 2 survey weighting

The effects of survey weights were examined by comparing unweighted and weighted estimates of the Wave 2 BNLA data with SDB variables not used in the weighting procedure (gender, age group, marital status and migration pathway were considered in this analysis). As Table D.3 shows, in general, the weighting procedure slightly improved the estimation of these proportions for PAs, bringing the BNLA population estimates closer to the SDB total population proportions.

The largest improvement in estimation was found for migration pathway where the survey weighted estimate of 71.3% arriving through an offshore migration pathway was closer to the SDB proportion of 69.5% when compared with the unweighted proportion of 78.1%. Slight improvements were also found in the estimates for age and marital status, when the weighted and unweighted estimates were compared to SDB population totals. However, the estimate of gender was very slightly less accurate when weighted.

**Table D.3:** Effect of survey weighting on estimates of variables in the Wave 2 BNLA data and SDB population sample

	PAs		
	BNLA W2 unweighted (%)	BNLA W2 weighted (%)	SDB sample (%)
<b>Gender</b>			
Male	71.1	71.7	69.7
Female	28.9	28.3	30.3
<b>Age group<sup>a</sup></b>			
18-30 years	29.6	31.9	32.3
31-55 years	58.3	56.1	55.1
56 years or over	12.0	11.9	12.1
<b>Marital status</b>			
Married	58.4	55.3	55.5
<b>Migration pathway</b>			
Offshore	78.1	71.3	69.5
Onshore	21.9	28.7	30.5
<b>Total (n)</b>	<b>1,268.0</b>	<b>1,268.0</b>	<b>4,035.0</b>

Note: (a) Information on age group was missing for 0.5% of records in the SDB sample.

## D.2. Calculation of Wave 2 longitudinal weights

A set of longitudinal weights that adjusts for attrition between the first and second waves of BNLA data were also calculated and are available in the Wave 2 BNLA dataset. The same process to derive cross-sectional weights described earlier was followed to calculate longitudinal weights. In this case, however, the BNLA estimates were adjusted to the Wave 1 recruited sample ( $n = 1,509$  PA,  $n = 890$  SA Wave 1 participants).

## Factors predicting Wave 1 PA participation in Wave 2

The analysis undertaken to generate the BNLA cross-sectional weights was limited to the basic demographic/administrative variables available in the SDB. The analysis used to inform the calculation of longitudinal weights was based on the final Wave 1 and Wave 2 datasets. As comprehensive data were collected on housing, English language proficiency, education and training, employment and income, health, self-sufficiency, community

support and perceptions of life in Australia as part of the BNLA study data collection, a much wider range of variables (i.e. those variables that were collected in both Wave 1 and Wave 2 of the BNLA) could be considered in the analysis. The following factors were tested to determine if they were significantly associated with PAs from Wave 1 participating in the second wave of data collection:

- visa subclass, gender and age
- capital city
- household type
- MU size
- marital status
- pre-migration education
- SEIFA and remoteness index
- country of birth
- English language proficiency
- employment
- mental health and posttraumatic stress
- whether waiting for family to migrate to Australia
- number of times moved home
- financial hardship and main source of income
- physical health.

The multivariate logistic model results predicting PAs from Wave 1 who also participated in Wave 2 are reported in Table D.4.

**Table D.4:** Results of multivariate logistic regression modelling Wave 1 PAs survey participation in Wave 2

BNLA Wave 1 characteristic	Odds ratio	Standard error	$p$ -value
<b>Country of birth</b>			
Afghanistan	1 (Base)		
Iran	0.699	0.183	0.172
Iraq	1.477	0.332	0.083
Burma/Myanmar	1.200	0.386	0.571
Rest of mid-East	1.350	0.590	0.493
Rest of Asia	4.184	1.659	0.000***
Africa	0.747	0.287	0.449
Other confidentialised country	0.281	0.133	0.007**
<b>Pre-migration education</b>			
Never attended school	1 (Base)		
6 or less years of schooling	1.637	0.376	0.032*
7–9 years of schooling	2.192	0.610	0.005**
10–11 years of schooling	1.773	0.578	0.079
12 or more years of schooling	1.631	0.434	0.066
Trade or technical qualifications beyond school	2.278	0.858	0.029*
University Degree	1.436	0.427	0.224
Don't know/prefer not to say	1.630	1.293	0.538
<b>MU structure</b>			
Couple family, with children <18 years (no other family members)	1 (Base)		

BNLA Wave 1 characteristic	Odds ratio	Standard error	p-value
Couple family, with children <18 years (and other family members)	1.426	0.484	0.295
Couple family only (no other family members)	0.569	0.176	0.070
Couple family and other family members but no children <18 years	1.267	0.564	0.595
Single parent family, with children <18 years (no other family members)	0.910	0.282	0.763
Single parent family, with children <18 years (and other family members)	2.012	0.820	0.087
Other immediate family members	0.842	0.292	0.621
Single person	0.938	0.187	0.749
<b>Remoteness Area Index (ABS 2011)</b>			
Major Cities of Australia	1 (Base)		
Inner Regional Australia	0.535	0.138	0.016*
Outer Regional Australia	1.836	1.163	0.337
<b>Constant</b>	<b>3.093</b>	<b>0.736</b>	<b>0.000***</b>

Note: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ .

Based on the model results, statistically significant variables predicting PA participation in Wave 2 included:

- country of birth
- pre-migration education
- MU structure<sup>62</sup>
- remoteness area.

Compared to the eligible Wave 1 PA sample, the recruited Wave 2 PA sample had a higher representation of people born in Iraq and the rest of Asia. Those with more years of pre-migration schooling or a trade or technical qualification were also more likely to participate in Wave 2 compared to participants who had never attended school. PAs living in single parent families with children under 18 years old were also associated with a higher probability of participation.

Conversely, PAs who lived in a couple family only (no other children or family members) and who lived in Inner Regional Australia were both factors associated with lower participation in Wave 2.

## Factors predicting Wave 1 SA participation in Wave 2

Analysis was also undertaken to identify the factors associated with SA applicants from Wave 1 participating in Wave 2. The same factors considered for inclusion in the PA level model, discussed in the previous section, were tested in order to identify statistically significant associations with SA participation in Wave 2. An additional factor was also tested, whether the SA was living in a household with a male PA. Results from this modelling are shown in Table D.5 and show that country of birth and English language speaking proficiency were associated with Wave 2 survey completion for SA participants who had completed a Wave 1 survey.

When compared to the eligible Wave 1 SA recruited sample, being born in Iraq or the rest of Asia was associated with a higher probability of survey participation. After controlling for country of birth, participants who had lower levels of English language proficiency were also more likely to participate in the second wave.

<sup>62</sup> Couple only family and single parent family with children under 18 years significant at 0.1 level.

**Table D.5:** Results of multivariate logistic regression modelling Wave 1 SAs survey participation in Wave 2

BNLA Wave 1 characteristic	Odds ratio	Standard error	p-value
<b>Country of birth</b>			
Afghanistan	1 (Base)		
Iran	1.334	0.450	0.393
Iraq	2.746	0.882	0.002**
Burma/Myanmar	1.431	0.727	0.480
Rest of mid-East	0.981	0.540	0.974
Rest of Asia	4.665	2.89	0.013*
Africa	1.510	0.895	0.487
Other confidentialised country	0.173	0.177	0.087
<b>English language proficiency</b>			
Very well	1 (Base)		
Well	2.976	1.485	0.029*
Not well	2.074	1.003	0.132
Not at all	1.662	0.833	0.311
Don't know/prefer not to say	2.014	1.955	0.471
<b>Constant</b>	<b>1.408</b>	<b>0.800</b>	<b>0.547</b>

Note: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ .

## Calculation of Wave 2 longitudinal survey weights

As with the calculation of cross-sectional survey weights, the appropriateness of generating a single longitudinal weight across both PA and SA participants was further investigated within a variance-component modelling framework. The variance component model of Wave 2 participation of the recruited Wave 1 sample showed that around 1% of the variance in survey completion was explained at the individual level (i.e. PAs and SAs within an MU).<sup>63</sup> A further model with covariates that were found to be statistically significant in the earlier PA and SA level analysis was also estimated. The inclusion of these additional covariates did not explain much further variation in survey participation, with the estimate of the variance of survey completion explained at the individual level increasing to 5.6% after these covariates were added to the model.

These results indicate that Wave 2 survey participation of Wave 1 recruited participants is largely explained at the MU level. The model estimates indicated that a low level of the variance of survey completion was explained at the individual level and, therefore, it was considered appropriate to calculate a survey weight across both PA and SA participants.

The raking procedure described earlier was used to adjust for the differential pattern in non-response of the recruited Wave 1 sample in completing a Wave 2 survey. Longitudinal survey weights were calculated adjusting the Wave 2 estimates to the achieved Wave 1 sample. These survey weights are further described in the next section.

## D.3. Survey weights available in Wave 2 dataset

In total, 6 survey weights are available in the Wave 2 BNLA dataset. Three population and 3 longitudinal survey weights are provided in the dataset. These survey weights and their variable names are described further below:

### Population weights

1. *bpawgt* – PA survey weight. The following variables were used to develop survey weights for this variable: visa subclass, capital city, family size and country of birth. The calculated survey weights ranged in value

<sup>63</sup> The estimated intra-class correlation was  $\rho = 0.989$ . This represents that 98.9% of the variance in survey completion was explained at the MU level and 1.1% at the individual level ( $1 - 0.989 = 0.011 = 1.1\%$  variance).



from 0.40 to 4.25. After an examination of the distribution and factors associated with the larger value survey weights, the calculated survey weights were capped at a maximum value of 2.5 (19 out of 1,268 PAs in Wave 2 had an initial survey weight greater than 2.5). It is recommended that this survey weight be used for cross-sectional analysis involving questions only asked of PAs in Wave 2.

2. *bsawgt* – SA survey weight. The visa subclass, capital city, age, country of birth and household structure variables were used to develop survey weights for this variable. SA survey weights ranged from 0.28 to 5.93. As with the PA level weight, the SA level weight was constrained to take a maximum value of 2.5 (involving 13 out of 741 cases). It is recommended that this survey weight be used for cross-sectional analysis involving questions asked only of SAs in Wave 2.
3. *bwgt* – all participant survey weight. Visa subclass, capital city, age and country of birth information were used in the survey weighting for this variable. This survey weight ranged from 0.35 to 4.69 and was also capped at a maximum value of 2.5 (involving 25 out of 2,009 cases). It is recommended that this survey weight be used when analysing survey questions of both PA and SA respondents in Wave 2.

## Longitudinal weights

1. *abpawgt* – PA longitudinal survey weight. The following variables were used to develop survey weights for this variable: country of birth, pre-migration education, MU structure and remoteness index. The calculated survey weights ranged in value from 0.81 to 1.57. It is recommended that this survey weight be used for longitudinal analysis involving questions only asked of PAs in Waves 1 and 2.
2. *absawgt* – SA longitudinal survey weight. The country of birth and English speaking proficiency variables were used to develop survey weights for this variable. SA survey weights ranged from 0.87 to 2.64. It is recommended that this survey weight be used for longitudinal analysis involving questions asked only of SAs in Waves 1 and 2.
3. *abwgt* – all participant longitudinal survey weight. Country of birth, pre-migration education, MU structure and remoteness information were used in the survey weighting for this variable. This survey weight ranged from 0.82 to 1.42. It is recommended that this survey weight be used when analysing survey questions asked of both PA and SA respondents in Waves 1 and 2.

## Appendix E: Wave 3 survey weighting

This section describes the process used to calculate survey weights for the Wave 3 sample of BNLA. The same processes were used to calculate Wave 3 survey weights as was followed for previous waves (see Appendices C and D for further information on the Wave 1 and Wave 2 survey weighting approach).

Two types of survey weights were calculated and are available on the Wave 3 dataset:

1. A population weight, which adjusts BNLA Wave 3 estimates to population totals (in this case, the population of humanitarian migrants who have been granted a permanent visa or arrived in Australia between May and December 2013).<sup>64</sup>
2. A longitudinal weight, which adjusts for attrition between the first and third waves, and second and third waves of BNLA.

### E.1. Calculation of Wave 3 population weights

As in previous waves, non-response analysis was undertaken to identify the characteristics of those who completed a Wave 3 interview and how these compared with all PAs and SAs on the DIBP sample frame who were in scope at the time of study recruitment.<sup>65</sup> This non-response analysis was done using multivariate logistic models to identify the factors associated with Wave 3 survey completion. As in Waves 1 and 2, 2 separate statistical models were estimated. The first identified the factors significantly associated with participation by PAs and the second model identified factors associated with survey completion by SAs. A third model was also fitted, which examined the characteristics associated with survey completion of all participants.

#### PA participation in Wave 3

The statistical model results predicting PA participation in a Wave 3 survey are described in Table E.1. The model results show that statistically significant variables predicting PA survey completion, included:

- visa subclass
- site
- family size
- country of birth.

Compared to the eligible PA sample, the recruited Wave 3 sample generally had lower representation of PAs living in capital cities. Family size was also associated with survey participation, with larger sized families more likely to participate in Wave 3.

Participants with a non-UMA visa subclass,<sup>66</sup> and those born in Burma/Myanmar, the rest of Asia or Africa, were also factors associated with a lower probability of participation in Wave 3, while those born in Iraq were more likely to participate in Wave 3 compared to the reference category (those born in Afghanistan).

#### SA participation in Wave 3

The statistical model results predicting SA participation in a Wave 3 survey are described in Table E.2. Factors associated with SA participation in Wave 3 included the following participant characteristics:

- visa subclass
- site
- country of birth
- household structure.

When compared to the eligible SA population, the following characteristics were significantly associated with lower levels of Wave 3 survey completion: living in a capital city, holding an 866 non-UMA visa subclass, being

<sup>64</sup> Offshore visa holders had to have **arrived** in Australia holding a permanent visa, while onshore visa holders had to have **received** their protection visa in this time period to be eligible for participation in the BNLA.

<sup>65</sup>  $n = 7,362$  individuals in 4,035 MUs were eligible for selection. For more information about the sampling and sampling frame refer to the Wave 1 Data Users Guide.

<sup>66</sup> A quota was in place for participants holding a non-UMA visa subclass.

born in Burma/Myanmar, the rest of Asia, rest of mid-East or Africa. Conversely, SA participants who lived in MUs with a male PA as a married female SA were found to have higher levels of survey participation.

**Table E.1:** Results of multivariate logistic regression modelling PA participation in Wave 3

SDB characteristic	Odds ratio	Standard error	p-value
<b>Gender</b>			
Male	1.031	0.104	0.759
Female	1 (Base)		
<b>Site</b>			
Site 1	0.583	0.151	0.038*
Site 2	0.287	0.073	0.000***
Site 3	0.965	0.335	0.920
Site 4	0.223	0.107	0.002**
Site 5	0.689	0.234	0.275
Site 6	0.430	0.101	0.000***
Site 7	0.346	0.131	0.005**
Site 8	0.323	0.088	0.000***
Site 9	0.226	0.062	0.000***
Site 10	0.679	0.236	0.268
Site 11	1 (Base)		
<b>Visa subclass</b>			
200	1 (Base)		
201	1.194	0.590	0.718
202	0.633	0.155	0.063
203	-	-	-
204	1.001	0.153	0.993
866 non-UMA	0.356	0.077	0.000***
866 UMA	1.075	0.185	0.674
<b>Family size</b>			
0	1.036	0.181	0.836
1	1 (Base)		
2	1.375	0.192	0.023*
3	1.824	0.247	0.000***
4 or more	1.783	0.180	0.000***
<b>Country of birth</b>			
Afghanistan	1 (Base)		
Iran	0.846	0.124	0.258
Iraq	1.492	0.180	0.001**
Burma/Myanmar	0.291	0.044	0.000***
Rest of mid-East	0.981	0.189	0.922
Rest of Asia	0.618	0.102	0.004**
Africa	0.324	0.054	0.000***
Rest of world	0.373	0.390	0.347
<b>Constant</b>	<b>1.081</b>	<b>0.284</b>	<b>0.766</b>

Notes: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . Gender included as a control variable. Locations of sites have not been named to protect participant confidentiality.

**Table E.2:** Results of multivariate logistic regression modelling SA participation in Wave 3

SDB characteristic	Odds ratio	Standard error	p-value
<b>Gender</b>			
Male	0.846	0.101	0.165
Female	1 (Base)		
<b>State</b>			
Site 1	0.697	0.297	0.399
Site 2	0.311	0.127	0.004**
Site 3	0.550	0.313	0.295
Site 4	1.729	1.476	0.521
Site 5	0.497	0.232	0.136
Site 6	0.329	0.129	0.005**
Site 7	0.125	0.161	0.107
Site 8	0.237	0.118	0.004**
Site 9	0.271	0.107	0.001**
Site 10	0.104	0.060	0.000***
Site 11	1 (Base)		
<b>Visa subclass</b>			
200	1 (Base)		
201	0.469	0.553	0.521
202	0.871	0.304	0.694
203	-	-	-
204	1.329	0.340	0.266
866 non-UMA	0.256	0.095	0.000***
866 UMA	0.614	0.236	0.205
<b>Country of birth</b>			
Afghanistan	1 (Base)		
Iran	0.903	0.192	0.633
Iraq	0.862	0.190	0.501
Burma/Myanmar	0.138	0.040	0.000***
Rest of mid-East	0.315	0.124	0.004**
Rest of Asia	0.482	0.121	0.004**
Africa	0.145	0.039	0.000***
Rest of world	0.979	1.084	0.985
<b>Household type</b>			
Male PA	1 (Base)		
Male PA / married female SA	1.898	0.350	0.001**
Male PA / unmarried male or female SA	1.001	0.194	0.995
Male PA / Child 15-17 years	1.032	0.231	0.888
<b>Constant</b>	<b>1.183</b>	<b>0.517</b>	<b>0.701</b>

Notes: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . Gender included as a control variable. Locations of sites have not been named to protect participant confidentiality.

## Calculation of Wave 3 cross-sectional survey weights

Further analysis was undertaken to identify the appropriateness of calculating a single survey weight across PA and SA respondents using variance component modelling. The rationale for this approach and further description of the variance component modelling is described in Appendix D.

Estimates from the unadjusted variance component modelling showed that 8.9% of the variance in survey completion was explained at the individual level (i.e. PAs and SAs within an MU).<sup>67</sup> A second model with explanatory covariates was also estimated.<sup>68</sup> The inclusion of these additional variables added little explanatory power when these results were compared to the unadjusted model. The estimate of variance in Wave 3 survey completion at the individual level was 14.1%. Given the low level of variance explained at the individual level and that survey completion was largely driven by variance at the MU level, a single Wave 3 survey weight was also calculated, and this is described next.

To adjust for the differential pattern in non-response described above, Wave 3 survey weights were calculated using the *ipfweight* algorithm (also known as raking) in Stata authored by Michael Bergmann.<sup>69</sup> The *ipfweight* procedure is based on work first proposed by Deming and Stephan (1940)<sup>70</sup> and adjusts survey sample weights to achieve population totals. In this case the population of humanitarian migrants being granted a permanent visa or arriving in Australia between May and December 2013.<sup>71</sup>

## Outcomes of Wave 3 survey weighting

The effects of survey weighting were further explored by comparing unweighted and weighted estimates of the Wave 3 BNLA data with SDB variables not used in the weighting procedure (gender, age group, marital status and migration pathway were considered in this analysis). As Table E.3 shows, in general, there was a slight improvement in the accuracy of population estimates through the survey weighting process, with survey weights bringing the BNLA population estimates closer to the SDB total population proportions.

The largest improvement in estimation was found for the migration pathway, where the survey weighted estimate of 72.2% arriving through an offshore migration pathway was closer to the SDB proportion of 69.5% when compared with the unweighted proportion of 80.8%. There were also slight improvements found for the estimates of age and marital status. However, as in previous waves, the estimate for gender was slightly less accurate when the survey weighted estimate was compared to the unweighted estimate.

**Table E.3:** Effect of survey weighting on estimates of variables in the Wave 3 BNLA data and SDB population sample for PAs

	BNLA Wave 3 unweighted (%)	BNLA Wave 3 weighted (%)	SDB Sample (%)
<b>Gender</b>			
Male	69.8	70.9	69.7
Female	30.2	29.1	30.3
<b>Age group<sup>a</sup></b>			
18-30 years	26.9	29.9	32.8
31-55 years	59.8	57.4	55.1
56 years or over	13.3	12.7	12.1
<b>Marital status</b>			
Married	60.1	56.6	55.5
<b>Migration pathway</b>			
Offshore	80.8	72.2	69.5

<sup>67</sup> The estimated intra-class correlation was  $\rho = 0.912$ . This represents that 91.2% of the variance in survey completion was explained at the MU level and 8.9% at the individual level ( $1 - 0.912 = .088 = 8.9\%$  variance).

<sup>68</sup> Gender, visa subclass, site, family size and country of birth were found to be significantly associated with Wave 3 survey completion and included in the variance-components model.

<sup>69</sup> See [fmwww.bc.edu/repec/bocode/i/ipfweight.html](http://fmwww.bc.edu/repec/bocode/i/ipfweight.html) for further detail. Accessed on 29 April 2014.

<sup>70</sup> Deming, W. E., & Stephan, F. F. (1940). On a least squares adjustment of a sampled frequency table when the expected marginal totals are known, *The Annals of Mathematical Statistics*, 11(4): 427-444.

<sup>71</sup> Offshore visa holders had to have **arrived** in Australia holding a permanent visa, while onshore visa holders had to have **received** their protection visa in this time period.

	BNLA Wave 3 unweighted (%)	BNLA Wave 3 weighted (%)	SDB Sample (%)
Onshore	19.2	27.8	30.5
<b>Total (n)</b>	<b>1,155.0</b>	<b>1,155.0</b>	<b>4,035.0</b>

Note: a Information on age group was missing for 0.5% of records in the SDB sample.

## E.2. Calculation of Wave 3 longitudinal weights

A set of longitudinal weights that adjusts for attrition between the first and third waves of BNLA and the second and third waves were also calculated and are available in the Wave 3 BNLA dataset. The same process to derive cross-sectional weights described earlier was followed to calculate longitudinal weights. In this case, however, the BNLA estimates were adjusted to the Wave 1 recruited sample ( $n = 1,509$  PA,  $n = 890$  SA Wave 1 participants) to calculate the Wave 1/3 longitudinal weight. For the Wave 2/3 longitudinal weight, the Wave 3 estimates were adjusted to the Wave 2 recruited sample ( $n = 1,268$  PA,  $n = 741$  SA participants in Wave 2).

### Factors predicting PAs from Wave 1 completing a Wave 3 interview

The analysis undertaken to generate the BNLA cross-sectional weights was limited to the basic demographic/administrative variables available in the SDB. The analysis used to inform the calculation of longitudinal weights was based on the final Wave 1 and Wave 3 datasets. As comprehensive data were collected on housing, English language proficiency, education and training, employment and income, health, self-sufficiency, community support and perceptions of life in Australia as part of the BNLA study data collection, a much wider range of variables (i.e. those variables that were collected in both Wave 1 and Wave 3 of the BNLA) could be considered in the following analysis.

The following factors were tested to determine if they were significantly associated with PAs from Wave 1 participating in the second wave of data collection:

- visa subclass, gender and age
- capital city
- household type
- MU size
- marital status
- pre-migration education
- SEIFA and remoteness index
- country of birth
- English language proficiency
- employment
- mental health and post-traumatic stress
- whether waiting for family to migrate to Australia
- number of times moved home
- financial hardship and main source of income
- physical health.

The multivariate logistic model results predicting PAs from Wave 1 who also participated in Wave 3 are described in Table E.4.

**Table E.4:** Results of multivariate logistic regression modelling Wave 1 PAs survey participation in Wave 3

BNLA Wave 1 characteristic	Odds ratio	Standard error	p-value
<b>Age</b>			
Age (years)	1.021	0.006	0.001**
<b>Visa subclass</b>			
200	1 (Base)		
201	0.669	0.597	0.653
202	0.484	0.186	0.060
203	-	-	-
204	0.979	0.248	0.936
866 non-UMA	0.532	0.164	0.041*
866 UMA	0.807	0.155	0.267
<b>Country of birth</b>			
Afghanistan	1 (Base)		
Iran	0.562	0.133	0.015*
Iraq	1.115	0.238	0.608
Burma/Myanmar	0.852	0.249	0.585
Rest of mid-East	0.904	0.368	0.806
Rest of Asia	1.139	0.289	0.608
Africa	0.445	0.155	0.021*
Other confidentialised country	0.354	0.175	0.036*
<b>Pre-migration education</b>			
Never attended school	1 (Base)		
6 or less years of schooling	2.148	0.490	0.001**
7-9 years of schooling	1.715	0.431	0.032*
10-11 years of schooling	1.599	0.461	0.104
12 or more years of schooling	2.192	0.588	0.003**
Trade or technical qualifications beyond school	1.657	0.552	0.129
University degree	1.615	0.491	0.113
Don't know/prefer not to say	2.244	1.553	0.243
<b>MU structure</b>			
Couple family, with children <18 years (no other family members)	1 (Base)		
Couple family, with children <18 years (and other family members)	1.367	0.430	0.320
Couple family only (no other family members)	0.742	0.222	0.321
Couple family and other family members but no children <18 years	1.650	0.842	0.326

BNLA Wave 1 characteristic	Odds ratio	Standard error	p-value
Single parent family, with children <18 years (no other family members)	1.025	0.324	0.938
Single parent family, with children <18 years (and other family members)	3.798	2.004	0.011*
Other immediate family members	0.789	0.273	0.495
Single person	0.761	0.138	0.134
<b>Understanding of spoken English</b>			
Very well	1 (Base)		
Well	0.536	0.149	0.025*
Not well	0.711	0.208	0.245
Not at all	0.807	0.278	0.535
Don't know/prefer not to say	0.491	0.322	0.279
<b>Constant</b>	<b>1.709</b>	<b>0.713</b>	<b>0.199</b>

Note: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ .

Based on the model results, statistically significant variables predicting PA participation in Wave 3 included:

- age
- visa subclass
- country of birth
- pre-migration education
- MU structure
- English language proficiency.

Compared to the eligible Wave 1 PA sample, the recruited Wave 3 PA sample had a lower representation of participants who were born in Iran, Africa or other remaining confidentialised countries. PA participants holding an 866 non-UMA visa type and poorer language proficiency were less likely to complete a Wave 3 interview.

Particular groups of PAs were more likely to complete a Wave 3 interview. These included: older PAs; those with more pre-migration education (compared to those who had never attended school); and those PAs who migrated to Australia as a single parent family with children under 18 years old (compared to those who migrated as a couple family with children under 18 years).

## Factors predicting SAs from Wave 1 completing a Wave 3 interview

Analysis was also undertaken to identify the factors associated with SAs from Wave 1 participating in Wave 3. The same factors considered for inclusion in the PA level model discussed in the previous section were tested in order to identify statistically significant associations with SA participation in Wave 3. Whether the SA was living in a household with a male PA was also tested. Results from this modelling are shown in Table E.5 and show that age, visa subclass, country of birth, pre-migration education levels and MU structure were associated with Wave 3 survey completion for SA participants who had previously completed a Wave 1 survey.

When compared to the eligible Wave 1 SA recruited sample, being older was associated with a higher probability of Wave 3 survey participation. SA participants born in rest of mid-East, Africa or other remaining confidentialised countries were less likely to participate in Wave 3.



**Table E.5:** Results of multivariate logistic regression modelling Wave 1 SAs survey participation in Wave 3

BNLA Wave 1 characteristic	Odds ratio	Standard error	p-value
<b>Age</b>			
Age (years)	1.020	0.009	0.032*
<b>Visa subclass</b>			
200	1 (Base)		
201	1.070	1.831	0.968
202	0.655	0.418	0.508
203	-	-	-
204	1.546	0.705	0.338
866 non-UMA	0.607	0.521	0.562
866 UMA	0.164	0.098	0.003**
<b>Country of birth</b>			
Afghanistan	1 (Base)		
Iran	0.730	0.300	0.445
Iraq	0.920	0.337	0.840
Burma/Myanmar	0.489	0.295	0.236
Rest of mid-East	0.179	0.128	0.016*
Rest of Asia	1.827	1.238	0.373
Africa	0.293	0.163	0.028*
Other confidentialised country	0.121	0.101	0.011*
<b>Pre-migration education</b>			
Never attended school	1 (Base)		
6 or less years of schooling	1.360	0.582	0.472
7-9 years of schooling	0.890	0.377	0.785
10-11 years of schooling	0.966	0.431	0.939
12 or more years of schooling	0.661	0.271	0.313
Trade or technical qualifications beyond school	0.309	0.170	0.033*
University degree	1.198	0.635	0.732
Don't know/prefer not to say	0.662	0.612	0.656
<b>MU structure</b>			
Couple family, with children <18 years (no other family members)	1 (Base)		
Couple family, with children <18 years (and other family members)	0.608	0.206	0.144
Couple family only (no other family members)	0.399	0.151	0.016*
Couple family and other family members but no children <18 years	1.535	0.777	0.397

BNLA Wave 1 characteristic	Odds ratio	Standard error	p-value
Single parent family, with children <18 years (no other family members)	1.311	1.157	0.758
Single parent family, with children <18 years (and other family members)	0.609	0.263	0.253
Other immediate family members	0.404	0.211	0.084
<b>Constant</b>	<b>5.960</b>	<b>3.354</b>	<b>0.002**</b>

Note:\* $p < 0.05$ ,\*\* $p < 0.01$ ,\*\*\* $p < 0.001$ .

## Factors predicting participants from Wave 2 completing a Wave 3 interview

The same process described in the previous section was used to identify the factors associated with completion of a Wave 3 interview for those who had previously participated in Wave 2. As before, separate models were estimated to identify the factors associated with PA and SA participation. In total, 1,704 participants who completed a Wave 2 interview also completed a Wave 3 interview.<sup>72</sup> The same factors that were tested in the model predicting survey participation in Wave 3 for those who completed a Wave 1 interview were also tested in these models. The model results for PAs are shown in Table E.6, with results for SA reported in Table E.7.

PAs who completed a Wave 2 interview were more likely to participate in Wave 3 if they were older and lived in more advantaged areas at Wave 2 (based on SEIFA 2011, relative to those living in the bottom decile).

Compared to the eligible Wave 2 PA sample, the recruited Wave 3 PA sample had a lower representation of participants who were born in Iran or Africa. PA participants holding an 866 non-UMA or 866 UMA visa type were less likely to complete a Wave 3 interview.

Looking now at the factors associated with SA participation in Wave 3, for those SAs who had previously completed a Wave 2 interview, model results for SA participants are presented in Table E.7.

SAs who participated in Wave 2 and held a 202 or 866 UMA visa type were less likely to participate in Wave 3 compared to those holding a 200 visa. As were those whose highest level of pre-migration education was a trade or technical certificate, and participants who migrated to Australia as a couple family with children under 18 years of age. Participants who reported a greater number of financial hardship events also were less likely to participate in Wave 3.

English language proficiency was associated with higher levels of survey participation in Wave 3. SA participants who had lower levels of understanding of spoken English were less likely to complete a Wave 3 interview compared to those who understood spoken English 'very well'.

**Table E.6:** Results of multivariate logistic regression modelling Wave 2 PAs' survey participation in Wave 3

BNLA Wave 2 characteristic	Odds ratio	Standard error	p-value
<b>Age</b>			
Age (years)	1.034	0.007	0.000***
<b>Visa subclass</b>			
200	1 (Base)		
201	0.334	0.318	0.250
202	0.498	0.229	0.131
203	-	-	-
204	0.917	0.246	0.747
866 non-UMA	0.489	0.165	0.035*

<sup>72</sup> 190 participants who completed a Wave 1 interview did not participate in Wave 2 but returned to complete an interview at Wave 3.

BNLA Wave 2 characteristic	Odds ratio	Standard error	p-value
866 UMA	0.646	0.142	0.048*
<b>Country of birth</b>			
Afghanistan	1 (Base)		
Iran	0.625	0.174	0.093
Iraq	1.399	0.322	0.146
Burma/Myanmar	0.869	0.297	0.682
Rest of mid-East	1.065	0.508	0.895
Rest of Asia	0.885	0.235	0.648
Africa	0.365	0.145	0.012*
Other confidentialised country	0.395	0.256	0.153
<b>SEIFA 2011 decile</b>			
1	1 (Base)		
2	2.080	0.516	0.003**
3	1.775	0.488	0.037*
4	0.857	0.313	0.673
5	1.079	0.309	0.789
6	1.733	0.665	0.152
7	0.892	0.318	0.750
8	1.902	0.992	0.218
9	2.325	1.334	0.141
10	0.897	0.427	0.820
<b>Constant</b>	<b>1.327</b>	<b>0.438</b>	<b>0.392</b>

Note: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ .

**Table E.7:** Results of multivariate logistic regression modelling Wave 2 SAs' survey participation in Wave 3

BNLA Wave 2 characteristic	Odds ratio	Standard error	p-value
<b>Visa subclass</b>			
200	1 (Base)		
201	0.218	0.294	0.259
202	0.262	0.172	0.041*
203	-	-	-
204	0.756	0.504	0.676
866 non-UMA	0.384	0.293	0.211
866 UMA	0.099	0.063	0.000***
<b>Pre-migration education</b>			
Never attended school	1 (Base)		
6 or less years of schooling	1.027	0.575	0.961
7-9 years of schooling	0.855	0.484	0.783
10-11 years of schooling	0.930	0.553	0.904
12 or more years of schooling	0.522	0.289	0.242
Trade or technical qualifications beyond school	0.278	0.178	0.047*
University degree	0.812	0.542	0.755

BNLA Wave 2 characteristic	Odds ratio	Standard error	p-value
Don't know/prefer not to say	0.628	0.619	0.637
<b>MU structure (at Wave 1)</b>			
Couple family, with children <18 years (no other family members)	1 (Base)		
Couple family, with children <18 years (and other family members)	0.374	0.148	0.013*
Couple family only (no other family members)	0.826	0.497	0.751
Couple family and other family members but no children <18 years	1.248	0.729	0.705
Single parent family, with children <18 years (no other family members)	2.750	3.195	0.384
Single parent family, with children <18 years (and other family members)	0.547	0.391	0.400
Other immediate family members	0.871	0.583	0.837
<b>Understanding of spoken English</b>			
Very well	1 (Base)		
Well	2.666	1.229	0.033*
Not well	2.956	1.454	0.028*
Not at all	5.370	3.305	0.006**
Don't know/prefer not to say			
<b>Number of financial hardship events</b>			
Number of financial hardship events	0.988	0.004	0.011*
<b>Constant</b>	<b>6.833</b>	<b>5.020</b>	<b>0.009**</b>

Note: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ .

## Calculation of Waves 1 and 3, and Waves 2 and 3 longitudinal survey weights

As before, the appropriateness of generating a single longitudinal weight across both PA and SA participants was further investigated within a variance-component modelling framework.

The variance component model of Wave 3 participation of the recruited Wave 1 sample showed that around 2% of the variance in survey completion was explained at the individual level (i.e. PAs and SAs within an MU). An even smaller proportion of variance (<1%) in Wave 3 survey completion was explained at the individual level for participants who completed a Wave 2 interview. Including additional explanatory variables in both models did not explain much further variance in survey participation: 4.8% of the variance was explained in the Waves 1 and 3 model after additional covariates were added, with the same proportion (4.8%) of variation explained in the Waves 2 and 3 model after additional variables were added to the variance components model.

Therefore, a single longitudinal weight was also calculated for all participants for both Waves 1 and 3, and Waves 2 and 3.

The raking procedure described earlier was used to adjust for the differential pattern in non-response of the recruited Wave 1 and Wave 2 samples. Longitudinal weights were calculated that adjusted the Wave 3 estimates to the achieved Wave 1 and Wave 2 samples. These survey weights are further described in the last section of this Appendix.

## Factors predicting participation in all 3 waves

This section describes the calculation of the longitudinal survey weight for respondents to the first 3 waves or 'the balanced panel survey weight'. This weight applies to the group of participants who were interviewed in

Wave 1 and responded in each subsequent wave up to and including Wave 3. This group is counted ‘as responses’ and every other participant in Wave 1 who did not complete each subsequent wave as ‘non-responses’. The analysis that follows identifies the characteristics associated with participants who responded in all 3 waves. These characteristics are used in the later survey weighting procedure to adjust for the differential pattern of responses between those who completed all 3 waves compared with those who did not complete at least one of these interviews. Multivariate logistic models were estimated to identify the characteristics associated with survey completion. Separate models were estimated for PA, SA and all participants. Overall, 1,053 PAs and 651 SAs completed a survey in all 3 waves. This means a total of 1,704 participants completed all 3 waves of data collection.

The analysis used to inform the calculation of longitudinal weights was based on the final Waves 1–3 datasets. The following factors were tested to determine if they were significantly associated with survey completion across all 3 waves:

- Visa subclass, gender and age
- Capital city
- Household type
- MU size
- Marital status
- Pre-migration education
- SEIFA and remoteness index
- Country of birth
- English language proficiency
- Employment
- Mental health and post-traumatic stress
- Whether waiting for family to migrate to Australia
- Number of times moved home
- Financial hardship and main source of income
- Physical health.

Statistical model results predicting participation in all 3 waves for each participant type are summarised in Table E.8. The model results show that PAs were more likely to participate across all 3 waves of data collection if they had higher levels of schooling (compared to those who had never attended school), migrated to Australia as a single parent with children under 18 years or were classified as ‘may have post-traumatic stress disorder’ using the PTSD-8 measure collected in the survey. PAs who arrived in Australia with an 866 non-UMA visa subclass, or were born in Iran, Africa or the rest of the world had lower likelihood of participation in all 3 waves of data collection.

Visa subclass and country of birth were the only 2 factors associated with SA survey completion. SA participants holding an 866 UMA visa were less likely to participate in all 3 waves compared to 200 visa holders. SAs born in Iraq or the rest of Asia were more likely to participate in all 3 waves relative to those born in Afghanistan.

**Table E.8:** Results of multivariate logistic regression modelling survey participation in the first 3 waves, by participant type at Wave 1

BNLA Wave 1 characteristic	PA model (Odds Ratio)	SA model (Odds Ratio)	All participants (Odds Ratio)
<b>Pre-migration education</b>			
Never attended school	1 (Base)		1 (Base)
6 or less years of schooling	1.809**		1.428*
7–9 years of schooling	1.646*		1.566*
10–11 years of schooling	1.435		1.571*
12 or more years of schooling	1.818*		1.296
Trade or technical qualifications beyond school	1.848*		1.281
University degree	1.368		1.303
Don't know/prefer not to say	2.503		1.504

BNLA Wave 1 characteristic	PA model (Odds Ratio)	SA model (Odds Ratio)	All participants (Odds Ratio)
Age (years)	1.020***		1.016***
<b>Visa subclass</b>			
200	1 (Base)	1 (Base)	1 (Base)
201	0.410	1.023	0.679
202	0.617	0.746	0.615
203	-	-	-
204	0.581*	1.275	0.706
866 non-UMA	0.555*	0.997	0.715
866 UMA	0.842	0.266*	0.625*
<b>Post-traumatic stress (PTSD 8)</b>			
Unlikely to have post-traumatic stress disorder	1 (Base)		
May have post-traumatic stress disorder	1.349*		
Don't know/prefer not to say	0.311***		
<b>Country of birth</b>			
Afghanistan	1 (Base)	1 (Base)	1 (Base)
Iran	0.634*	1.089	0.765
Iraq	1.257	2.094*	1.544*
Burma/Myanmar	1.087	1.524	1.042
Rest of mid-East	1.382	0.506	0.887
Rest of Asia	1.571	4.724**	1.955**
Africa	0.475*	0.806	0.549**
Rest of world	0.306*	0.113	0.207***
<b>Migrating unit structure</b>			
Couple family with children under 18 (no other family members)	1 (Base)		1 (Base)
Couple family with children under 18 and other family members	1.048		0.826
Couple family only (no other family members)	0.638		0.632*
Couple family and other family members but no children under 18	1.122		1.066
Single parent family with children under 18 (no other family members)	1.056		1.102
Single parent family with children under 18 and other family members	2.523*		1.887*
Other immediate family members	1.075		0.958
Other extended family members only	-		-
Non-related persons	-		-
Single person	0.841		0.753*
<b>Constant</b>	<b>0.817</b>	<b>1.929</b>	<b>1.119</b>

Note: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ .

## E.3 Survey weights available in the Wave 3 dataset

In total, 12 survey weights are available on the Wave 3 BNLA dataset. Three population and 9 longitudinal survey weights are provided on the dataset. These survey weights and their variable names are described further below:

### Population weights

1. *cpawgt* – Wave 3 PA Survey weight. The following variables were used to develop this survey weight: visa subclass, capital city, family size and country of birth. The calculated survey weights ranged in value from 0.30 to 5.43. After an examination of the distribution and factors associated with the larger value survey weights, the calculated survey weights were capped at a maximum value of 2.5. It is recommended that this survey weight be used for cross-sectional analysis involving questions only asked of PAs in Wave 3.
2. *csawgt* – Wave 3 SA survey weight. Visa subclass, capital city, age, country of birth and household structure variables were used to develop this survey weight. SA survey weights ranged from 0.25 to 5.96. As with the PA level weight, the SA level weight was constrained to take a maximum value of 2.5. It is recommended that this survey weight be used for cross-sectional analysis involving questions asked only of SAs in Wave 3.
3. *cwgt* – Wave 3 all participant survey weight. Visa subclass, capital city, age and country of birth information were used in the development of this survey weight. This survey weight ranged from 0.39 to 4.60 and was also capped at a maximum value of 2.5. It is recommended that this survey weight be used when analysing survey questions of both PA and SA respondents in Wave 3.

### Longitudinal weights

1. *acpawgt* – Wave 1/3 PA longitudinal survey weight. The following variables were used to develop this survey weight: visa subclass, age, country of birth, pre-migration education, MU structure and English language proficiency. The calculated survey weights ranged in value from 0.79 to 1.46. It is recommended that this survey weight be used for longitudinal analysis involving questions only asked of PAs in Waves 1 and 3.
2. *acsawgt* – Wave 1/3 SA longitudinal survey weight. The visa subclass, country of birth, age, pre-migration education and MU structure variables were used to develop this survey weight. Wave 1/3 SA longitudinal survey weights ranged from 0.92 to 1.78. It is recommended that this survey weight be used for longitudinal analysis involving questions asked only of SAs in Waves 1 and 3.
3. *acwgt* – Wave 1/3 all participant longitudinal survey weight. Visa subclass, country of birth, age, pre-migration education and MU structure information were used in the development of this survey weight. This survey weight ranged from 0.83 to 1.50. It is recommended that this survey weight be used when analysing survey questions asked of both PA and SA respondents in Waves 1 and 3.
4. *bcprawgt* – Wave 2/3 PA longitudinal survey weight. The following variables were used to develop this survey weight: visa subclass, age, country of birth, and SEIFA 2011. The calculated survey weights ranged in value from 0.85 to 1.32. It is recommended that this survey weight be used for longitudinal analysis involving questions only asked of PAs in Waves 2 and 3.
5. *acsawgt* – Wave 1/3 SA longitudinal survey weight. Visa subclass, pre-migration education, MU structure, understanding of spoken English and number of financial hardship events were used to develop this survey weight. Wave 2/3 SA longitudinal survey weights ranged from 0.86 to 1.57. It is recommended that this survey weight be used for longitudinal analysis involving questions asked only of SAs in Waves 2 and 3.
6. *bcwgt* – Wave 2/3 all participant longitudinal survey weight. Visa subclass, age, country of birth and SEIFA 2011 were used in the development of this survey weight. This survey weight ranged from 0.87 to 1.32. It is recommended that this survey weight be used when analysing survey questions asked of both PA and SA respondents in Waves 2 and 3.
7. *a\_cpawgt* – Waves 1, 2 and 3 balanced panel longitudinal weight for PAs. The following variables were used to develop this survey weight: visa subclass, country of birth, pre-migration education, age and post-traumatic stress. The calculated survey weights ranged in value from 0.82 to 1.55.
8. *a\_csawgt* – Waves 1, 2 and 3 balanced panel longitudinal survey weight for SAs. Visa subclass and country of birth were used to develop this survey weight. This longitudinal survey weight ranged from 0.88 to 1.72.
9. *a\_cwgt* – Waves 1, 2 and 3 balanced panel longitudinal survey weight for all participants. Visa subclass, country of birth, age and pre-migration education variables were used in developing this survey weight. This survey weight ranged from 0.74 to 1.87.

## Appendix F: Wave 4 survey weighting

This section describes the process used to calculate survey weights for the Wave 4 sample of Building a New Life in Australia. The same processes were used to calculate Wave 4 survey weights as for previous waves (See Appendices C, D and E for further information on the BNLA survey weighting approach).

Two types of survey weights were calculated and are available in the Wave 4 dataset:

1. A 'population' weight – that adjusts BNLA Wave 4 estimates to population totals (in this case, the population of humanitarian migrants who have been granted a permanent visa or arrived in Australia between May and December 2013).<sup>73</sup>
2. A 'longitudinal' weight that adjusts for attrition between the first and fourth waves, and a balanced panel survey weight for respondents who completed the first 4 waves of data collection.

### F.1 Calculation of Wave 4 population weights

Analysis of non-response was undertaken to identify the characteristics of those who completed a Wave 4 interview compared with all humanitarian migrants on the SDB that were eligible to participate in the study at the time of study recruitment.<sup>74</sup> To identify the factors associated with participation in Wave 4, multivariate logistic models were estimated. As in previous waves, separate models were run to identify the characteristics associated with PA participation, SA participation and survey completion by all participants.

### Factors associated with participation in Wave 4

Results of statistical models predicting participation for each participant type are summarised in Table F.1.

**Table F.1:** Results of multivariate logistic regression predicting survey participation in Wave 4, by participant type, odds ratios

SDB characteristic	PA model	SA model	All participants
<b>Gender</b>			
Male	1.086	0.804	0.594***
Female	1 (Base)	1 (Base)	1 (Base)
<b>Site</b>			
Site 1#	0.606	0.649	0.653
Site 2#	0.277***	0.287**	0.305***
Site 3	1.045	0.691	0.960
Site 4#	0.288**	0.219	0.224**
Site 5#	0.744	0.520	0.734
Site 6#	0.425***	0.295**	0.376***
Site 7	0.355**	-	0.221***
Site 8#	0.303***	0.185**	0.260***
Site 9#	0.226***	0.263**	0.245***
Site 10	0.562	0.114***	0.291***
Site 11	1 (Base)	1 (Base)	1 (Base)
<b>Visa subclass</b>			
200	1 (Base)	1 (Base)	1 (Base)
201	1.489	1.209	1.368

<sup>73</sup> Offshore visa holders had to have **arrived** in Australia holding a permanent visa, while onshore visa holders had to have **received** their protection visa in this time period to be eligible for participation in BNLA.

<sup>74</sup>  $n = 7,362$  individuals in 4,035 migrating units were eligible for selection. For more information about the sampling and sampling frame refer to sections 2.1 and 2.2 of this Data Users Guide.



SDB characteristic	PA model	SA model	All participants
202	0.734	0.753	0.831
203	-	-	
204	1.095	1.140	1.113
866 non-UMA	0.413***	0.277*	0.337***
866 UMA	0.928	0.819	0.712**
<b>Family size</b>			
0	1.022		
1	1 (Base)		
2	1.346*		
3	1.435**		
4 or more	1.761***		
<b>Country of birth</b>			
Afghanistan	1 (Base)	1 (Base)	1 (Base)
Iran	0.890	0.938	0.918
Iraq	1.747***	0.901	1.492**
Burma/Myanmar	0.333***	0.135***	0.275***
Rest of mid-East	0.788	0.418**	0.635*
Rest of Asia	0.626**	0.484**	0.626**
Africa	0.329***	0.137***	0.265***
Rest of world	0.322	0.930	0.439
<b>Household type</b>			
Male PA		1 (Base)	1 (Base)
Male PA / married female SA		1.664**	0.449***
Male PA / unmarried male or female SA		0.987	0.319***
Male PA / Child 15-17 years		0.938	0.300***
<b>Constant</b>	<b>1.113</b>	<b>1.355</b>	<b>3.059***</b>

Notes:  $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . Gender included as a control variable. # Indicates site in a capital city. Location of sites have not been named to protect participant confidentiality.

The model results show that both PA and SA participants share some factors that predict survey completion in Wave 4. For both the PA and SA sample, participants living in capital cities and holding an 866 non-UMA<sup>75</sup> visa were significantly less likely to participate in Wave 4. Country of birth was also significantly associated with Wave 4 survey completion for both PAs and SAs, although there were some differences between the 2 participant types. PAs born in Iraq were more likely to participate in Wave 4 compared to those born in Afghanistan; however, no significant association with survey completion was found for SA participants born in Iraq. SAs who were born in the remainder of the Middle East were less likely to complete a Wave 4 survey compared to SAs born in Afghanistan; however, this association was not significant for PAs. Both PA and SA participants born in Burma/Myanmar, Rest of Asia and Africa were less likely to participate in Wave 4.

Family size was significantly associated with PA participation in Wave 4. PAs with larger families were more likely to complete a Wave 4 survey. Household type was significantly associated with SA participation but was not found to be significant for PA participants.

<sup>75</sup> A quota was in place for participants holding a non-UMA visa subclass.

## Calculation of Wave 4 cross-sectional survey weights

Further analysis was undertaken to identify the appropriateness of calculating a single survey weight across PA and SA respondents using variance component modelling. The rationale for this approach and further description of the variance component modelling is provided in Appendix C.

Estimates from the unadjusted variance component modelling showed that 11.2% of the variance in survey completion was explained at the individual level (i.e. PAs and SAs within a migrating unit).<sup>76</sup> A second model with explanatory covariates was also estimated.<sup>77</sup> The inclusion of these additional variables added little explanatory power when these results were compared to the unadjusted model. The estimate of variance in Wave 4 survey completion at the individual level was 15.2%. Given the low level of variance explained at the individual level and that survey completion was largely driven by variance at the migrating unit level, a single Wave 4 survey weight was also calculated, and this is described next.

To adjust for the differential pattern in non-response described above, Wave 4 survey weights were calculated using the *ipfweight* algorithm (also known as raking) in Stata authored by Michael Bergmann.<sup>78</sup> The *ipfweight* procedure is based on work first proposed by Deming and Stephan (1940)<sup>79</sup> and adjusts survey sample weights to achieve population totals, in this case the population of humanitarian migrants being granted a permanent visa between May and December 2013.<sup>80</sup>

## Outcomes of Wave 4 survey weighting

The effects of survey weighting were further explored by comparing unweighted and weighted estimates of the Wave 4 BNLA data with Settlement Database (SDB) variables not used in the weighting procedure (gender, age group, marital status and migration pathway were considered in this analysis). As Table F.2 shows, in general, there was a slight improvement in the accuracy of population estimates through the survey weighting process, with survey weights bringing the BNLA population estimates closer to the SDB total population proportions.

The largest improvement in estimation was found for migration pathway where the survey weighted estimate of 71.9% arriving through an offshore migration pathway was closer to the SDB proportion of 69.5% when compared with the unweighted proportion of 82.1%. There were also slight improvements found for the estimates of age and marital status. However, as in previous waves, the estimate for gender was slightly less accurate when the survey weighted estimate was compared to the unweighted estimate.

**Table F.2:** Effect of survey weighting on estimates of variables in the Wave 3 BNLA data and SDB population sample

	Principal Applicants		
	BNLA Wave 4 unweighted (%)	BNLA Wave 4 weighted (%)	SDB Sample (%)
<b>Gender</b>			
Male	69.8	71.4	69.7
Female	30.2	28.6	30.3
<b>Age group<sup>a</sup></b>			
18–30 years	27.9	31.1	32.8
31–55 years	59.1	56.6	55.1
56 years or over	13.0	12.3	12.1
<b>Marital status</b>			
Married	59.3	55.9	55.5

<sup>76</sup> The estimated intra-class correlation was  $\rho = 0.888$ . This indicates that 88.8% of the variance in survey completion was explained at the migrating unit level and 11.2% at the individual level ( $1 - 0.888 = 0.112 = 11.2\%$  variance).

<sup>77</sup> Gender, visa subclass, site, family size and country of birth were found to be significantly associated with Wave 4 survey completion and included in the variance-components model.

<sup>78</sup> See [fmwww.bc.edu/repec/bocode/i/ipfweight.html](http://fmwww.bc.edu/repec/bocode/i/ipfweight.html) for further detail. Accessed on 29/4/2014.

<sup>79</sup> Deming, W. E., & Stephan, F. F. (1940). On a least squares adjustment of a sampled frequency table when the expected marginal totals are known, *The Annals of Mathematical Statistics*, 11(4): 427–444.

<sup>80</sup> Offshore visa holders had to have **arrived** in Australia holding a permanent visa, while onshore visa holders had to have **received** their protection visa in this time period.

	Principal Applicants		
	BNLA Wave 4 unweighted (%)	BNLA Wave 4 weighted (%)	SDB Sample (%)
<b>Migration pathway</b>			
Offshore	82.1	71.9	69.5
Onshore	17.9	28.1	30.5
<b>Total (n)</b>	<b>1,186.0</b>	<b>1,186.0</b>	<b>4,035.0</b>

Notes: (a) Information on age group was missing for 0.5% of records in the SDB sample.

## F.2 Calculation of Wave 4 longitudinal weights

As part of the BNLA methodology, once participants were recruited into the study at Wave 1, participants who could not be contacted or refused to participate at a particular wave could complete an interview at a later wave. In previous waves, survey weights were calculated for every possible combination of responses (Waves 1 and 3; Waves 2 and 3). This approach means that there is an increasing number of survey weights as each wave of data collection is completed. For example, Wave 4 with a separate weight for PA, SA and all participants and each combination of survey responses (Wave 1 and Wave 4; Wave 2 and Wave 4; Wave 3 and Wave 4) would require a set of 9 separate survey weights. From this wave, a shorter set of survey weights were calculated. This consisted of 6 survey weights calculated for Wave 4 covering 2 combinations of responses:

- respondents to Waves 1, 2, 3 and 4 (longitudinal survey weight for respondents to all waves or ‘balanced panel weight’. Separate weights for PAs, SAs and all participants are calculated.)
- respondents to Waves 1 and 4 (longitudinal survey weight for respondents from Wave 1 who completed a Wave 4 survey. Separate weights for PAs, SAs and all participants are calculated.)

### Factors predicting participation in all 4 waves

This section describes the calculation of the longitudinal survey weight for respondents who were interviewed in Wave 1 and responded in each subsequent wave up to and including Wave 4. This group is counted as ‘responses’ and every other participant in Wave 1 who did not complete each subsequent wave as ‘non-responses’. The analysis that follows identifies the characteristics of participants who responded in all 4 waves and these characteristics are used in the later survey weighting procedure to adjust for attrition across the 4 waves. Multivariate logistic models were estimated to identify the characteristics associated with survey completion. Separate models were estimated for PA, SA and all participants. Overall, 957 PAs and 592 SAs totalling 1,549 participants completed all 4 waves of data collection.

The analysis used to inform the calculation of longitudinal weights was based on the final Waves 1–4 datasets. As comprehensive data were collected on housing, English language proficiency, education and training, employment and income, health, self-sufficiency, community support and perceptions of life in Australia as part of the BNLA study data collection, a wide range of variables were considered in the following analysis. The following factors were tested to determine if they were significantly associated with survey completion across all 4 waves:

- Visa subclass, gender and age
- Capital city
- Household type
- MU size
- Marital status
- Pre-migration education
- SEIFA and remoteness index
- Country of birth
- English language proficiency
- Employment
- Mental health and post-traumatic stress
- Whether waiting for family to migrate to Australia

- Number of times moved home
- Financial hardship and main source of income
- Physical health.

Statistical model results predicting participation in all 4 waves for each participant type are summarised in Table F.3. The model results show that PAs were more likely to participate across all 4 waves of data collection if they had higher levels of schooling, lower levels of understanding of spoken English and reported savings as their main source of income. PAs who arrived in Australia through the onshore migration pathway, or were born in Iran, Africa or other countries were less likely to participate in all 4 waves of data collection.

A more limited set of factors predicted SAs participation in all 4 waves. Visa subclass and country of birth were the only 2 factors associated with SA survey completion. The model results for SA participation in all 4 waves mirrored the PA results; however, SAs born in the Rest of Asia were significantly more likely to participate across all 4 waves, whereas PAs born in these countries were not more likely to participate in the first 4 waves.

**Table F.3: Results of multivariate logistic regression modelling survey participation in the first 4 waves, by participant type at Wave 1, odds ratio**

BNLA Wave 1 characteristic	PA model	SA model	All participants
<b>Pre-migration education</b>			
Never attended school	1 (Base)		1 (Base)
6 or less years of schooling	1.525*		1.256
7–9 years of schooling	1.778*		1.573*
10–11 years of schooling	1.401		1.497*
12 or more years of schooling	1.813*		1.251
Trade or technical qualifications beyond school	2.151*		1.403
University degree	1.722*		1.448
Don't know/prefer not to say	1.717		1.434
Age (years)	1.019***		1.013**
<b>Visa subclass</b>			
200	1 (Base)	1 (Base)	1 (Base)
201	0.259	1.341	0.510
202	0.573	0.681	0.621
203			
204	0.784	1.161	0.950
866 non-UMA	0.589**	0.299*	0.508***
866 UMA	0.489*	1.135	0.590*
<b>Understanding of spoken English</b>			
Very well/well	1 (Base)		1 (Base)
Not well	1.205		1.156
Not at all	1.605*		1.383*
Don't know/prefer not to say	0.746		0.895
<b>Country of birth</b>			
Afghanistan	1 (Base)	1 (Base)	1 (Base)
Iran	0.515**	1.182	0.729
Iraq	1.362	2.500*	1.667***
Burma/Myanmar	0.886	1.333	0.951
Rest of mid-East	1.372	0.568	0.964
Rest of Asia	1.200	5.366***	1.800***

BNLA Wave 1 characteristic	PA model	SA model	All participants
Africa	0.448*	0.276**	0.373***
Rest of world	0.356*	-	0.206***
<b>Main income source</b>			
Own wage or salary	1 (Base)		
Spouse/partner's/parent's income	2.101		
Financial support from others	1.296		
Government payments	1.001		
Savings	9.451*		
Other	2.003		
Don't know/prefer not to say	1.477		
<b>Constant</b>	<b>0.535</b>	<b>1.310</b>	<b>0.773</b>

Notes: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ .

## Factors predicting participants from Wave 1 completing a Wave 4 interview

A second set of longitudinal weights were also calculated. These weights adjusted for attrition between Waves 1 and 4. Separate models were estimated to identify the factors associated with survey participation in Wave 4 by PAs and SAs. In total, 1,929 participants from Wave 1 also completed a Wave 4 interview. This comprised 1,186 PAs and 743 SAs. The same set of factors that were tested in the models predicting survey participation across all 4 waves described in the previous section were also tested in these models. The model results for PAs, SAs and all participants are shown in Table F.4.

The statistical modelling shows that PAs recruited in Wave 1 were more likely to participate in Wave 4 if they were born in Iraq and had arrived in Australia as part of a Migrating Unit consisting of a couple family with children under 18 years old and other family members. Those born in Iran or Africa, arriving with an 866 non-UMA visa class and having family overseas were less likely to participate in a Wave 4 interview.

Similar to PA participation, SAs born in Africa were less likely to participate in Wave 4. Remoteness area and number of financial hardship events significantly predicted SA participation (but were not significantly associated with PA participation in Wave 4). SAs living in inner regional areas were more likely to complete a Wave 4 survey compared to SAs living in major cities. SAs reporting a higher number of financial hardship events were less likely to participate compared to SAs reporting no financial hardship.

**Table F.4:** Results of multivariate logistic regression modelling predicting survey participation in Wave 4, by participant type at Wave 1, odds ratio

BNLA Wave 1 characteristic	PA model	SA model	All participants
<b>Visa subclass</b>			
200	1 (Base)		1 (Base)
201	1.970		2.878
202	0.495		0.493*
203			
204	1.250		1.196
866 non-UMA	0.532**		0.489***
866 UMA	0.778		0.785
<b>Remoteness area</b>			
Major Cities of Australia		1 (Base)	1 (Base)
Inner Regional Australia		3.838**	2.186**
Outer Regional Australia		0.195	0.768

BNLA Wave 1 characteristic	PA model	SA model	All participants
<b>Migrating unit structure</b>			
Couple family with children under 18 (no other family members)	1 (Base)		1 (Base)
Couple family with children under 18 and other family members	3.806**		2.087**
Couple family only (no other family members)	1.261		1.140
Couple family and other family members but no children under 18	1.642		1.103
Single parent family with children under 18 (no other family members)	0.872		0.844
Single parent family with children under 18 and other family members	1.701		1.203
Other immediate family members	1.103		0.808
Other extended family members only			
Non-related persons			
Single person	0.788		0.749
<b>Country of birth</b>			
Afghanistan	1 (Base)	1 (Base)	1 (Base)
Iran	0.653*	0.790	0.684*
Iraq	1.563*	1.657	1.547**
Burma/Myanmar	1.355	0.520	1.009
Rest of mid-East	0.785	0.361	0.577
Rest of Asia	0.798	2.002	0.918
Africa	0.468*	0.138**	0.234***
Rest of world	0.398	0.203	0.297**
<b>Has family overseas waiting to come to Australia</b>			
Yes	1 (Base)		1 (Base)
No	0.706*		0.748*
Don't know/prefer not to say	0.726		0.887
<b>Number of financial hardship events</b>			
None			1 (Base)
1			0.887
2			0.887
3			2.678
4			0.707
5			0.173*
6			
Don't know / prefer not to say			1.154
<b>Constant</b>	<b>4.910***</b>		<b>4.803***</b>

Notes: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ .

## Calculation of balanced panel and Waves 1 and 4 longitudinal survey weights

As before, the appropriateness of generating a single longitudinal weight across both PA and SA participants was further investigated within a variance-component modelling framework. Model results indicated that it was

appropriate to calculate both a single balanced panel longitudinal weight and single Wave 1/4 longitudinal survey weight (less than 5% of the variance in survey completion was explained at the individual level in both cases).

The raking procedure described earlier was used to adjust for the differential pattern in non-response of the recruited sample who completed the first 4 waves of interviews compared to those who missed at least one interview wave. The same analysis was used to adjust for differential patterns in the recruited sample who completed an interview in Wave 4. Longitudinal survey weights were calculated using the raking procedure. A description of these survey weights and the variables used in the survey weighting procedure for each of these variables can be found in the next section.

## F.3 Survey weights available in the Wave 4 dataset

In total, 9 survey weights are available in the Wave 4 BNLA dataset. Three population and 6 longitudinal survey weights are provided in the dataset. These survey weights and their variable names are described further below:

### Population weights

1. *dpawgt* - Wave 4 Principal Applicant Survey weight. The following variables were used to develop this survey weight: visa subclass, capital city, family size and country of birth. The calculated survey weights ranged in value from 0.31 to 4.83. After an examination of the distribution and factors associated with the larger value survey weights, the calculated survey weights were capped at a maximum value of 2.5. It is recommended that this survey weight be used for cross-sectional analysis involving questions only asked of Principal Applicants in Wave 4.
2. *dsawgt* - Wave 4 Secondary Applicant survey weight. The visa subclass, major city, country of birth and migrating unit structure variables were used to develop this survey weight. SA survey weights ranged from 0.31 to 5.60. As with the PA weight, the SA weight was constrained to take a maximum value of 2.5. It is recommended that this survey weight be used for cross-sectional analysis involving questions asked only of Secondary Applicants in Wave 4.
3. *dwgt* - Wave 4 all participant survey weight. Visa subclass, capital city, age and country of birth information were used in developing this survey weight. This survey weight ranged from 0.45 to 3.10 and was also capped at a maximum value of 2.5. It is recommended that this survey weight be used when analysing survey questions asked of both PA and SA respondents in Wave 4.

### Longitudinal weights

1. *a\_dpawgt* - Waves 1, 2, 3 and 4 balanced panel longitudinal weight for Principal Applicants. The following variables were used to develop this survey weight: visa subclass, country of birth, pre-migration education, age, English language proficiency and main source of income. The calculated survey weights ranged in value from 0.69 to 1.83.
2. *a\_dsawgt* - Waves 1, 2, 3 and 4 balanced panel longitudinal survey weight for Secondary Applicants. The visa subclass and country of birth variables were used to develop this survey weight. Waves 1-4 SA longitudinal survey weights ranged from 0.84 to 1.82.
3. *a\_dwgt* - Waves 1, 2, 3 and 4 balanced panel longitudinal survey weight for all participants. Visa subclass, country of birth, age, pre-migration education, and English language proficiency were used in developing this survey weight. This survey weight ranged from 0.71 to 1.84.
4. *adpawgt* - Wave 1/4 Principal Applicant longitudinal survey weight. The following variables were used to develop this survey weight: visa subclass, country of birth, migrating unit structure and family overseas waiting to come to Australia. The calculated survey weights ranged in value from 0.76 to 1.44.
5. *adsawgt* - Wave 1/4 Secondary Applicant longitudinal survey weight. Country of birth, remoteness area and number of financial hardship events variables were used to develop this survey weight. Wave 1/4 SA longitudinal survey weights ranged from 0.88 to 1.62.
6. *adwgt* - Wave 1/4 all participant longitudinal survey weight. Visa subclass, country of birth, migrating unit structure, family overseas and remoteness area variables were used to derive this survey weight. This survey weight ranged from 0.75 to 1.47.

## Appendix G: Wave 5 survey weighting

This section describes the process used to calculate survey weights for the Wave 5 sample of Building a New Life in Australia. The same processes were followed to calculate Wave 5 survey weights as for previous waves (see Appendices C, D, E and F for further information on the BNLA survey weighting approach).

Two types of survey weights were calculated and are available on the Wave 5 dataset:

- A 'population' weight – that adjusts BNLA Wave 5 estimates to population totals (in this case, the population of humanitarian migrants who have been granted a permanent visa or arrived in Australia between May and December 2013).<sup>81</sup>
- A 'longitudinal' weight that adjusts for attrition between the first and fifth wave, and a balanced panel survey weight for respondents who completed the first 5 waves of data collection. For this wave, a longitudinal weight was also calculated for those who participated in Waves 1, 3 and 5 to reflect those waves where interviews were administered in the home.

### G.1 Calculation of Wave 5 population weights

Following the same processes as in previous waves, analysis of non-response was undertaken to identify the characteristics of those who completed an interview compared with all humanitarian migrants on the SDB that were eligible to participate in the study at the time of study recruitment.<sup>82</sup> The following section describes the results of multivariate logistic models. These models were estimated to identify the factors associated with PA participation, SA participation and survey completion by all participants in Wave 5.

### Factors associated with participation in Wave 5

Results of statistical models predicting Wave 5 participation for each participant type are summarised in Table G.1.

**Table G.1:** Results of multivariate logistic regression predicting survey participation in Wave 5, by participant type, odds ratios

SDB characteristic	PA model	SA model	All participants
<b>Gender</b>			
Male	1.104	0.817	1.070
Female	1 (Base)	1 (Base)	1 (Base)
<b>Site</b>			
Site 1#	0.533*	0.544	0.547*
Site 2#	0.258***	0.232***	0.261***
Site 3	0.574	0.424	0.544
Site 4#	0.372*	0.906	0.428
Site 5#	0.770	0.394	0.580
Site 6#	0.451**	0.222***	0.342***
Site 7	0.382*	-	0.253**
Site 8#	0.310***	0.192**	0.256***
Site 9#	0.238***	0.219***	0.232***
Site 10	0.526	0.088***	0.240***
Site 11	1 (Base)	1 (Base)	1 (Base)

<sup>81</sup> Offshore visa holders had to have **arrived** in Australia holding a permanent visa, while onshore visa holders had to have **received** their protection visa in this time period to be eligible for participation in BNLA.

<sup>82</sup>  $n = 7,362$  individuals in 4,035 migrating units were eligible for selection. For more information about the sampling and sampling frame refer to the sections 2.1 and 2.2 of this Data Users Guide.



SDB characteristic	PA model	SA model	All participants
<b>Visa subclass</b>			
200	1 (Base)	1 (Base)	1 (Base)
201	1.528	1.074	1.402
202	0.887	0.924	0.935
203	-	-	-
204	1.184	1.580	1.461**
866 non-UMA	0.362***	0.242***	0.294***
866 UMA	1.185	0.831	0.944
Family size	1.209***		
<b>Country of birth</b>			
Afghanistan	1 (Base)	1 (Base)	1 (Base)
Iran	1.086	1.085	1.071
Iraq	1.960***	1.122	1.555***
Burma/Myanmar	0.309***	0.145***	0.243***
Rest of mid-East	0.943	0.430*	0.741
Rest of Asia	0.746	0.584*	0.707*
Africa	0.387***	0.201***	0.315***
Rest of world	0.545	-	0.317
<b>Marital status</b>			
Divorced	1 (Base)		1 (Base)
Engaged	2.455		1.965
De facto	2.427		2.567
Married	1.290		1.457
Never married	1.252		0.838
Separated	1.564		1.611
Widowed	1.598		1.327
<b>Household type</b>			
Male PA		1 (Base)	
Male PA / married female SA		1.914**	
Male PA / unmarried male or female SA		1.043	
Male PA / Child 15-17 years		1.128	
<b>Constant</b>	<b>0.594</b>	<b>1.488</b>	

Notes: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . Gender included as a control variable. # indicates site is a capital city. Location of sites have not been named to protect participant confidentiality.

The model results show that both PA and SA participants shared some factors that predict survey completion in Wave 5. For both the PA and SA sample, survey participation was significantly associated with region, visa subclass and their country of birth. PAs who were born in Iraq were more likely to participate compared to those born in Afghanistan; however, there was no significant association with survey participation for SAs who were born in Iraq. Both PA and SA participants born in Burma/Myanmar and Africa were less likely to participate in Wave 5.

Family size was significantly associated with PA participation in Wave 5. PAs with larger families were more likely to complete a Wave 5 survey, compared to those with smaller families. Household type was significantly associated with SA participation but was not found to be significant for PA participants.

## Calculation of Wave 5 cross-sectional survey weights

As in previous waves, further analysis was undertaken to identify the appropriateness of calculating a single survey weight across PA and SA respondents using variance component modelling. The rationale for this approach and further description of the variance component modelling is provided in Appendices C through F. As in previous waves, the variance component models showed that low levels of the variance in survey completion was found at the individual level (around 10%). As most of the variance in survey completion could be explained at the migrating unit level, a single Wave 5 population weight for all participants was also calculated following the raking procedure described in previous appendices. The variables found to be significantly associated with survey participation described in the previous section were used in the raking procedure to generate the PA, SA and overall participant population weight. These survey weights adjust the survey estimates to achieve population totals – in this case the population of humanitarian migrants being granted a permanent visa or who arrived in Australia between May and December 2013.<sup>83</sup>

## Outcomes of Wave 5 survey weighting

The effects of survey weighting were further explored by comparing unweighted and weighted estimates of the Wave 5 BNLA data with SDB variables not used in the weighting procedure (gender and age group). As Table G.2 shows, the estimate for age was more accurate when survey weights were used, namely the survey weights brought the BNLA population estimate closer to the SDB total population proportions.

However, as in previous waves, the estimate for gender was slightly less accurate when the survey weighted estimate was compared to the unweighted estimate.

**Table G.2:** Effect of survey weighting on estimates of variables in the Wave 5 BNLA data and SDB population sample

	Principal Applicants		
	BNLA Wave 5 unweighted (%)	BNLA Wave 5 weighted (%)	SDB Sample (%)
<b>Gender</b>			
Male	69.7	70.8	69.7
Female	30.3	29.2	30.3
<b>Age group<sup>a</sup></b>			
18–30 years	26.5	29.2	32.8
31–55 years	60.8	58.8	55.1
56 years or over	12.7	12.1	12.1
<b>Total (n)</b>	<b>1,186.0</b>	<b>1,186.0</b>	<b>4,035.0</b>

Notes: (a) Information on age group was missing for 0.5% of records in the SDB sample.

## G.2 Calculation of Wave 5 longitudinal weights

As described in Appendix F, once recruited into the study at Wave 1, participants who refused to participate or could not be contacted at a particular wave could re-join the study at a later wave. Due to the study methodology, this means there is an increasing number of survey weights that potentially could be calculated as each data collection wave is completed. For example, in Wave 5, if a separate weight for each participant type (PA, SA and all participants) and each combination of survey weights (Wave 1 and Wave 5, Waves 1, 2 and 5, Waves 1, 2, 3 and 5, Waves 1, 2, 4, 5, Waves 2, 3, 4, 5, etc.), were to be calculated – this would require the generation of 48 separate survey weights (16 combinations of survey weights x 3 applicant types). In this wave, a smaller set of survey weights were calculated. The raking procedure described earlier was used to adjust for the differential pattern of non-response of the recruited sample across waves. This involved the calculation of 9 survey weights for Wave 5 covering 3 combinations of responses:

<sup>83</sup> Offshore visa holders had to have **arrived** in Australia holding a permanent visa, while onshore visa holders had to have **received** their protection visa in this time period.

- Respondents to Waves 1, 2, 3, 4 and 5 (longitudinal survey weight for respondents to all waves or ‘balanced panel weight’. A separate weight for PAs, SAs and all participants was calculated).
- Respondents to Waves 1 and 5 (longitudinal survey weight for respondents from Wave 1 who completed a Wave 5 survey. A separate weight for PAs, SAs and all participants was calculated).
- Respondents to Waves 1, 3 and 5 (longitudinal survey weight for respondents from Wave 1 who completed Wave 3 and Wave 5 surveys. A separate weight for PAs, SAs and all participants are calculated).

## Factors predicting participation in all 5 waves

This section describes the calculation of the longitudinal survey weight for respondents who were interviewed in Wave 1 and responded in each subsequent wave up to and including Wave 5. This group is counted as ‘responses’ and every other participant in Wave 1 who did not complete each subsequent wave as ‘non-responses’. The analysis that follows identifies the characteristics of participants who responded in all 5 waves and these characteristics are used in the later survey weighting procedure to adjust for attrition across the 5 waves. Multivariate logistic models were estimated to identify the characteristics associated with survey completion. Separate models were estimated for PA, SA and all participants. Overall, 1,447 participants completed all 5 waves. This comprised 886 PAs and 561 SAs.

The analysis used to inform the calculation of longitudinal weights was based on the Waves 1 through 5 datasets. As in previous waves, the same factors were tested to determine if they were significantly associated with survey completion across all 5 waves:

- Visa subclass, gender and age
- Capital city
- Household type
- MU size
- Marital status
- Pre-migration education
- SEIFA and remoteness index
- Country of birth
- English language proficiency
- Employment
- Mental health and post-traumatic stress
- Whether waiting for family to migrate to Australia
- Housing tenure
- Number of times moved home
- Financial hardship and main source of income
- Physical health.

The model results predicting participation in all 5 waves for each participant type are summarised in Table G.3. The model results show that PAs were more likely to participate across all 5 waves of data collection if they had higher levels of schooling, were born in Iraq and were older. PAs who arrived in Australia through the onshore migration pathway or were born in Africa were less likely to participate in all 5 waves.

In terms of SA participation, visa subclass and country of birth were significantly associated with participation in all 5 waves. The model results for SA participation were very similar to the factors associated with PA participation; however, SA participants born in the rest of Asia were more likely to participate in all 5 waves, while this result did not hold for PA participants.

**Table G.3:** Results of multivariate logistic regression modelling survey participation in all 5 waves, by participant type at Wave 1, odds ratios

BNLA Wave 1 characteristic	PA model	SA model	All participants
<b>Gender</b>			
Male	0.874	0.868	0.940
Female	1 (Base)		1 (Base)
<b>Pre-migration education</b>			
Never attended school	1 (Base)		1 (Base)
6 or less years of schooling	1.468		1.235
7–9 years of schooling	1.465		1.438*
10–11 years of schooling	1.156		1.259
12 or more years of schooling	1.363		1.006
Trade or technical qualifications beyond school	1.396		1.118
University degree	1.127		1.107
Don't know/prefer not to say	1.510		1.089
Age (years)	1.021***		1.015***
<b>Visa subclass</b>			
200	1 (Base)	1 (Base)	1 (Base)
201	0.249	2.143	0.433
202	0.702	0.896	0.729
203	-	-	-
204	0.791	1.356	1.042
866 non-UMA	0.472	1.608	0.568*
866 UMA	0.638	0.319	0.553***
<b>Country of birth</b>			
Afghanistan	1 (Base)	1 (Base)	1 (Base)
Iran	0.661	1.162	0.846
Iraq	1.890***	2.718***	2.091***
Burma/Myanmar	0.953	1.172	0.949
Rest of mid-East	1.821	0.498	1.195
Rest of Asia	1.288	4.393**	1.763**
Africa	0.351**	0.340*	0.337***
Rest of world	0.501	-	0.270**
<b>Constant</b>	<b>0.543**</b>	<b>1.077</b>	<b>0.679</b>

Notes: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . Gender included as a control variable.

## Factors predicting participants from Wave 1 completing a Wave 5 interview

A set of survey weights were also calculated to adjust for attrition between Waves 1 and 5. Separate statistical models were estimated to identify the factors associated with survey participation in Wave 5 for PA, SA and all participants. Overall, 1,881 participants from Wave 1 also completed an interview in Wave 5. This number was made up of 1,144 PAs and 737 SAs. Model results showing the factors associated with survey participation in Wave 5 by applicant type are shown in Table G.4.

The factors associated with PA participation in Wave 5 include: country of birth (being born in Iraq), higher levels of pre-migration education, having arrived in Australia through an offshore migration pathway and arriving in Australia as part of a Migrating Unit consisting of a single parent family with children under 18 years old and other family members.

SA participation in Wave 5 was also significantly associated with country of birth and visa subclass. There were some contrasting results with the PA model. Pre-migration education levels were not significantly associated with SA participation; however, understanding of spoken English was a significant predictor of participation for SAs. Those with lower levels of English understanding were more likely to complete a Wave 5 interview.

**Table G.4:** Results of multivariate logistic regression models predicting survey participation in Wave 5, by participant type at Wave 1, odds ratios

BNLA Wave 1 characteristic	PA model	SA model	All participants
<b>Gender</b>			
Male	1.126	0.774	1.010
Female	1 (Base)	1 (Base)	1 (Base)
<b>Visa subclass</b>			
200	1 (Base)		1 (Base)
201	1.827	-	3.150
202	0.986	0.793	0.890
203	-	-	-
204	1.341	2.995*	2.052**
866 non-UMA	0.422**	0.452	0.474*
866 UMA	0.771	0.413*	0.772
<b>Pre-migration education</b>			
Never attended school	1 (Base)		
6 or less years of schooling	1.565*		
7-9 years of schooling	1.407		
10-11 years of schooling	1.053		
12 or more years of schooling	1.180		
Trade or technical qualifications beyond school	0.904		
University degree	0.999		
Don't know/prefer not to say	1.672		
<b>Understanding of spoken English</b>			
Very well		1 (Base)	1 (Base)
Well		2.778*	1.353
Not well		2.381*	1.522
Not at all		2.752*	1.644*
Don't know/prefer not to say		2.491	1.962
<b>Migrating unit structure</b>			
Couple family with children under 18 (no other family members)	1 (Base)		1 (Base)
Couple family with children under 18 and other family members	1.580		1.409
Couple family only (no other family members)	1.132		1.010
Couple family and other family members but no children under 18	1.003		0.699

BNLA Wave 1 characteristic	PA model	SA model	All participants
Single parent family with children under 18 (no other family members)	0.961		0.624
Single parent family with children under 18 and other family members	3.303*		1.287
Other immediate family members	0.883_		0.476*
Other extended family members only	–		-
Non-related persons	0.624*		-
Single person			0.574*
<b>Country of birth</b>			
Afghanistan	1 (Base)	1 (Base)	1 (Base)
Iran	1.089	1.182	0.993
Iraq	2.530***	2.987**	2.551***
Burma/Myanmar	1.088	0.592	0.838
Rest of mid-East	21.73	0.806	1.182
Rest of Asia	1.255	3.333*	1.558*
Africa	0.622	1.101	0.724
Rest of world	0.478	0.090*	0.248**
<b>Constant</b>	<b>2.283*</b>	<b>1.294</b>	<b>2.283**</b>

Notes: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . Gender included as a control variable.

## Factors predicting participants from Wave 1 completing a Wave 3 and Wave 5 interview

For this wave, we also undertook analysis of the factors associated with survey participation in Waves 1, 3 and 5. This analysis can help to identify the characteristics of participants who participated in all home visit interviews. Overall, 1,662 participants (1,000 PAs; 662 SAs) completed all 3 home visit interviews.

The results in Table G.5 model the probability of completing a Wave 1, 3 and 5 survey relative to the group who did not complete at least one of the home visit interviews. The model results show that for all participants, visa subclass, age, pre-migration education, migrating unit structure and country of birth were all significantly associated with completion of Waves 1, 3 and 5 surveys. Participants who were older, had higher levels of pre-migration education, and were born in Iraq or the rest of Asia were associated with home visit survey completion. Conversely, the following factors were associated with a lower likelihood of participation in Waves 1, 3 and 5: arriving in Australia as part of a single person migrating unit or with other immediate family members; arriving in Australia via an onshore migration pathway; and being born in Africa or the rest of the world.

The same set of factors predicted PA participation in all 3 home visit waves. Analysis of SA participation showed that, compared with PA and all participants, migrating unit structure and age were not significantly associated with SA participation in the 3 home visit surveys. However, SAs who were partnered at Wave 1 were more likely to participate in Waves 1, 3 and 5 compared to those who were unpartnered.

**Table G.5:** Results of multivariate logistic regression models predicting survey participation in Wave 1 and Wave 3 and Wave 5, by participant type at Wave 1, odds ratios

BNLA Wave 1 characteristic	PA model	SA model	All participants
<b>Gender</b>			
Male	1.015	0.834	0.871
Female	1 (Base)		1 (Base)
<b>Visa subclass</b>			
200	1 (Base)	1 (Base)	1 (Base)
201	0.701	1.809	0.942
202	0.557	0.675	0.640

BNLA Wave 1 characteristic	PA model	SA model	All participants
203	-	-	-
204	1.012	2.125*	1.326
866 non-UMA	0.502*	0.799	0.575*
866 UMA	0.762	0.275	0.683*
Age (years)	1.023*		1.019*
<b>Partnered</b>			
No		1 (Base)	
Yes		1.843**	
Don't know/prefer not to say		1.950*	
<b>Pre-migration education</b>			
Never attended school	1 (Base)	1 (Base)	1 (Base)
6 or less years of schooling	1.934**	1.045	1.667**
7-9 years of schooling	1.691*	0.774	1.422
10-11 years of schooling	1.341	0.797	1.211
12 or more years of schooling	1.594*	0.504*	1.066
Trade or technical qualifications beyond school	1.109	0.435	0.866
University degree	1.202	1.131	1.123
Don't know/prefer not to say	1.754	0.504	1.156
<b>Migrating unit structure</b>			
Couple family with children under 18 (no other family members)	1 (Base)		1 (Base)
Couple family with children under 18 and other family members	1.008		0.871
Couple family only (no other family members)	0.781		0.710
Couple family and other family members but no children under 18	0.837		0.747
Single parent family with children under 18 (no other family members)	1.120		0.715
Single parent family with children under 18 and other family members	3.967**		1.599
Other immediate family members	0.857		0.555*
Other extended family members only	-	-	-
Non-related persons	-		-
Single person	0.670*		0.536***
<b>Country of birth</b>			
Afghanistan	1 (Base)	1 (Base)	1 (Base)
Iran	0.892	1.253	0.960
Iraq	1.901**	2.187*	1.856***
Burma/Myanmar	0.859	0.807	0.767
Rest of mid-East	1.499	0.403	0.811
Rest of Asia	1.156	2.809*	1.460*
Africa	0.421**	0.597	0.475**
Rest of world	0.361*	-	0.158***
<b>Constant</b>	<b>0.630</b>	<b>1.898</b>	<b>1.203</b>

Notes: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . Gender included as a control variable.

## G.3 Survey weights available in the Wave 5 dataset

In total, 12 survey weights are available in the Wave 5 BNLA dataset. Three population and 9 longitudinal survey weights are provided in the dataset. These survey weights and their variable names are described further below:

### Population weights

1. *epawgt* – Wave 5 PA Survey weight. The following variables were used to develop this survey weight: visa subclass, region (capital city), family size, marital status and country of birth. The calculated survey weights ranged in value from 0.31 to 5.73. After an examination of the distribution and factors associated with the larger value survey weights, the calculated survey weights were capped at a maximum value of 2.5. It is recommended that this survey weight be used for cross-sectional analysis involving questions only asked of PAs in Wave 5.
2. *esawgt* – Wave 5 SA survey weight. Visa subclass, region (capital city), country of birth and household structure variables were used to develop this survey weight. SA survey weights ranged from 0.23 to 8.37. As with the PA weight, the SA weight was constrained to take a maximum value of 2.5. It is recommended that this survey weight be used for cross-sectional analysis involving questions asked only of SAs in Wave 5.
3. *ewgt* – Wave 5 all participant survey weight. Visa subclass, region (capital city), marital status and country of birth information were used in developing this survey weight. This survey weight ranged from 0.38 to 5.80 and was also capped at a maximum value of 2.5. It is recommended that this survey weight be used when analysing survey questions asked of both PA and SA respondents in Wave 5.

### Longitudinal weights

1. *a\_epawgt* – Waves 1, 2, 3, 4 and 5 balanced panel longitudinal weight for Principal Applicants. The following variables were used to develop this survey weight: visa subclass, country of birth, pre-migration education and age. The calculated survey weights ranged in value from 0.67 to 2.02.
2. *a\_esawgt* – Waves 1, 2, 3, 4 and 5 balanced panel longitudinal survey weight for Secondary Applicants. Visa subclass and country of birth variables were used to develop this survey weight. Waves 1-5 SA longitudinal survey weights ranged from 0.83 to 1.86.
3. *a\_ewgt* – Waves 1, 2, 3, 4 and 5 balanced panel longitudinal survey weight for all participants. Visa subclass, country of birth, age and pre-migration education were used in developing this survey weight. This survey weight ranged from 0.72 to 2.92.
4. *aepawgt* – Wave 1/5 Principal Applicant longitudinal survey weight. The following variables were used to develop this survey weight: visa subclass, country of birth, migrating unit structure and pre-migration education. The calculated survey weights ranged in value from 0.65 to 1.33.
5. *aesawgt* – Wave 1/5 Secondary Applicant longitudinal survey weight. Visa subclass, country of birth and understanding of spoken English variables were used to develop this survey weight. Wave 1/5 SA longitudinal survey weights ranged from 0.90 to 1.50.
6. *aewgt* – Wave 1/5 all participant longitudinal survey weight. Visa subclass, country of birth, migrating unit structure and understanding of spoken English were used to derive this survey weight. This survey weight ranged from 0.74 to 1.68.
7. *acepawgt* – Wave 1/3/5 Principal Applicant longitudinal survey weight. Visa subclass, age, migrating unit, country of birth and pre-migration education variables were used to generate this weight. This survey weight ranged from 0.59 to 2.28.
8. *acesawgt* – Wave 1/3/5 Secondary Applicant longitudinal survey weight. Visa subclass, being partnered, pre-migration education and country of birth information were used to derive this weight. This survey weight ranged from 0.64 to 1.90.
9. *acewgt* – Wave 1/3/5 all participant longitudinal survey weight. Visa subclass, age, migrating unit, country of birth and pre-migration education variables were used to derive this weight. This survey weight ranged from 0.62 to 2.50.



## Appendix H: Wave 6 survey weighting

This section describes the process used to calculate survey weights for the Wave 6 sample of Building a New Life in Australia. A similar process was followed to calculate Wave 6 survey weights as for previous waves (see Appendices C, D, E, F and G for further information on the BNLA survey weighting approach).

Two types of survey weights were calculated and are available on the Wave 6 dataset:

- A 'population' weight – that adjusts BNLA Wave 6 estimates to population totals (in this case, the population of humanitarian migrants who were granted a permanent visa or arrived in Australia between May and December 2013).<sup>84</sup>
- A 'longitudinal' weight that adjusts for attrition between the first and sixth wave, and a balanced panel survey weight for respondents who completed the 6 waves of data collection. For this wave, a longitudinal weight was also calculated for those who participated in Waves 1, 3, 5 and 6 to reflect those waves where longer interviews were administered and the method of data collection was face-to-face (though in Wave 6, CAWI was also part of the methodology).

### H.1 Calculation of Wave 6 population weights

Following the same processes as in previous waves, analysis of non-response was undertaken to identify the characteristics of those who completed an interview compared with all humanitarian migrants on the SDB who were eligible to participate in the study at the time of study recruitment.<sup>85</sup> The following section describes the results of multivariate logistic models. These models were estimated to identify the factors associated with PA participation, SA participation and survey completion by all participants in Wave 6. Given that the sampling procedure at Wave 1 stratified participants by PA/SA status, weights were calculated for PAs and SAs even though only one survey was administered to all participants in Wave 6.

### Factors associated with participation in Wave 6

Results of statistical models predicting Wave 6 participation for each participant type are summarised in Table H.1.

**Table H.1:** Results of multivariate logistic regression predicting survey participation in Wave 6, by participant type, odds ratios

SDB characteristic	PA Model	SA Model	All participants
<b>Gender</b>			
Male	1.032	0.584***	1.009
Female	1 (Base)	1 (Base)	1 (Base)
<b>Site</b>			
Site 1#	0.667	0.806	0.767
Site 2#	0.332***	0.442	0.396**
Site 3	1.113	1.636	1.405
Site 4#	0.575	4.280	0.982
Site 5#	0.669	0.774	0.769
Site 6#	0.470**	0.361*	0.446**
Site 7	0.486	0.342	0.481
Site 8#	0.296***	0.193**	0.276***
Site 9#	0.276***	0.313**	0.302***
Site 10	0.690	0.324*	0.494

<sup>84</sup> Offshore visa holders had to have **arrived** in Australia holding a permanent visa, while onshore visa holders had to have **received** their protection visa in this time period to be eligible for participation in BNLA.

<sup>85</sup>  $n = 7,362$  individuals in 4,035 migrating units were eligible for selection. For more information about the sampling and sampling frame refer to the Sections 2.1 and 2.2 of this Data Users Guide.

SDB characteristic	PA Model	SA Model	All participants
Site 11	1 (Base)	1 (Base)	1 (Base)
<b>Visa subclass</b>			
200	1 (Base)	1 (Base)	1 (Base)
201	2.411	2.897	2.387
202	0.733	1.133	0.984
203		-	-
204	0.975	0.903	1.156
866 non-UMA	0.504***	0.212**	0.400***
866 UMA	1.069	1.261	0.922
Family size	1.180	-	-
<b>Country of birth</b>			
Afghanistan	1 (Base)	1 (Base)	1 (Base)
Iran	1.111	1.058	1.110
Iraq	1.807***	1.415	1.656***
Burma/Myanmar	0.516***	0.303***	0.413***
Rest of mid-East	1.158	0.511	0.903
Rest of Asia	0.960	0.943	0.984
Africa	0.506***	0.192***	0.385***
<b>Rest of world</b>			
<b>Marital status</b>			
Divorced	1 (Base)		1 (Base)
Engaged	4.405**		3.614*
De facto	2.740*		3.309**
Married	1.444		1.578
Never married	1.341		0.951
Separated	2.766**		2.609*
Widowed	1.676		1.398
<b>Constant</b>	<b>0.267**</b>	<b>0.536</b>	<b>0.365*</b>

Notes: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . Gender included as a control variable but not used in survey raking procedure. # indicates site is a capital city. Location of sites have not been named to protect participant confidentiality.

The model results show that both PA and SA participants shared some factors that predict survey completion in Wave 6. For both the PA and SA samples, survey participation was significantly associated with region, visa subclass and country of birth. PAs who were born in Iraq were more likely to participate compared to those born in Afghanistan; however, there was no significant association with survey participation for SAs who were born in Iraq. Both PA and SA participants born in Burma/Myanmar and Africa were less likely to participate in Wave 6. SA males were less likely to participate in Wave 6 compared with SA females. This association was not observed for PAs.

PAs marital status was significantly associated with participation in Wave 6, with those engaged, de facto or separated more likely to participate compared with those divorced.

## Calculation of Wave 6 cross-sectional survey weights

As in previous waves, further analysis was undertaken to identify the appropriateness of calculating a single survey weight across all respondents using variance component modelling. The rationale for this approach and further description of the variance component modelling is provided in Appendices C through G. As in previous waves, the variance component models showed that low levels of the variance in survey completion was found at the individual level (around 10%). As most of the variance in survey completion could be explained at the migrating unit level, a single Wave 6 population weight for all participants was also calculated following the raking procedure described in previous appendices. The variables found to be significantly associated with survey participation described in the previous section were used in the raking procedure to generate the overall

participant population weight. These survey weights adjust the survey estimates to achieve population totals – in this case, the population of humanitarian migrants being granted a permanent visa or who arrived in Australia between May and December 2013.<sup>86</sup> This single overall Wave 6 population weight is therefore also provided along with the PA and SA level population weights also derived and described previously.

## Outcomes of Wave 6 survey weighting

The effects of survey weighting were further explored by comparing unweighted and weighted estimates of the Wave 6 BNLA data with Settlement Database (SDB) variables not used in the weighting procedure (gender and age group). As Table H.2 shows, the estimate for age was more accurate when survey weights were used, namely the survey weights brought the BNLA population estimate closer to the SDB total population proportions.

However, as in previous waves, the estimate for gender was slightly less accurate when the survey weighted estimate was compared to the unweighted estimate.

**Table H.2:** Effect of survey weighting on estimates of variables in the Wave 6 BNLA data and SDB population sample

	Principal Applicants		
	BNLA Wave 6 unweighted	BNLA Wave 6 weighted	SDB Sample
<b>Gender</b>			
Male	69.2	72.3	69.7
Female	30.8	27.7	30.3
<b>Age group<sup>a</sup></b>			
18–30 years	25.7	29.1	32.8
31–55 years	60.3	58.0	55.1
56 years or over	14.0	12.9	12.1

Notes: (a) Information on age group was missing for 0.5% of records in the SDB sample.

## H.2 Calculation of Wave 6 longitudinal weights

- As described in Appendix G, once recruited into the study at Wave 1, participants who refused to participate or could not be contacted at a particular wave could re-join the study at a later wave. Due to the study methodology, this means there is an increasing number of survey weights that potentially could be calculated as each data collection wave is completed. In this wave, a shorter set of survey weights were calculated. The raking procedure described earlier was used to adjust for the differential pattern of non-response of the recruited sample across waves. This involved the calculation of 9 longitudinal survey weights for Wave 6 covering 3 combinations of responses:
  - Respondents to Waves 1, 2, 3, 4, 5 and 6 (longitudinal survey weight for respondents to all waves or ‘balanced panel weight’. A separate weight for PAs, SAs and all participants was calculated).
  - Respondents to Waves 1 and 6 (longitudinal survey weight for respondents from Wave 1 who completed a Wave 6 survey. A separate weight for PAs, SAs and all participants was calculated).
  - Respondents to Waves 1, 3, 5 and 6 (longitudinal survey weight for respondents from Wave 1 who completed a Wave 3, Wave 5 and Wave 6 survey. A separate weight for PAs, SAs and all participants was calculated).

## Factors predicting participation in all 6 waves

This section describes the calculation of the longitudinal survey weight for respondents to all waves; that is, the group of participants who were interviewed in Wave 1 and responded in each subsequent wave including Wave 6. This group is counted as ‘responses’ and every other participant in Wave 1 who did not complete each subsequent wave as ‘non-responses’. The analysis that follows identifies the characteristics of participants who responded in all 6 waves and these characteristics are used in the later survey weighting procedure to adjust for

<sup>86</sup> Offshore visa holders had to have **arrived** in Australia holding a permanent visa, while onshore visa holders had to have **received** their protection visa in this time period.

attrition across the 6 waves. Multivariate logistic models were estimated to identify the characteristics associated with survey completion. Overall, 916 participants completed all 6 waves. This includes 548 PAs and 368 SAs.

The analysis used to inform the calculation of longitudinal weights was based on the Waves 1 through to 6 datasets. As in previous waves, the same factors were tested to determine if they were significantly associated with survey completion across all 6 waves:

- Visa subclass, gender and age
- Capital city
- Household type
- MU size
- Marital status
- Pre-migration education
- SEIFA and remoteness index
- Country of birth
- English language proficiency
- Employment
- Mental health and post-traumatic stress
- Whether waiting for family to migrate to Australia
- Housing tenure
- Number of times moved home
- Financial hardship and main source of income
- Physical health.

The model results predicting participation in all 6 waves for each participant type are summarised in Table H.3. The model results show that PAs were more likely to participate across all 6 waves of data collection if they were likely to have PTSD, were born in Iraq or the rest of Asia (compared with Afghanistan) and were older. PAs who arrived in Australia through the onshore migration pathway (non-UMA) were less likely to participate in all 6 waves compared with those arriving on a 200 Refugee visa. In addition, PAs in single person households or couple family (and no other family members) were less likely to participate in all 6 waves compared with PAs who migrated in couple families with children under 18 (and no other family members).

Apart from country of birth, the factors associated with SA participation in the 6 waves were different to significant factors in the PA model. SAs in outer regional Australia were more likely to participate in the 6 waves compared to those in major cities, as were those who had a partner, compared with those who didn't. SAs not employed at Wave 1 were less likely to participate in the 6 waves compared with SAs who were employed.

**Table H.3:** Results of multivariate logistic regression modelling survey participation in all 6 waves, by participant type at Wave 1, odds ratios

BNLA Wave 1 characteristic	PA model	SA model	All participants
<b>Gender</b>			
Male	0.966	0.792	0.893
Female	1 (Base)	1 (Base)	1 (Base)
<b>Migrating unit structure</b>			
Couple family with children under 18 (no other family members)	1 (Base)		1 (Base)
Couple family with children under 18 and other family members	1.030		0.895
Couple family only (no other family members)	0.600*		0.733
Couple family and other family members but no children under 18	1.024		1.015
Single parent family with children under 18 (no other family members)	0.661		0.673

BNLA Wave 1 characteristic	PA model	SA model	All participants
Single parent family with children under 18 and other family members	1.193		1.413
Other immediate family members	0.622		0.610*
Other extended family members only	-		-
Non-related persons	-		-
Single person	0.748**		0.714*
<b>Post-traumatic stress (PTSD 8)</b>			
Unlikely to have Post-Traumatic Stress Disorder	1 (Base)		
May have Post-Traumatic Stress Disorder	1.460**		
Don't know/prefer not to say	0.324**		
Age (years)	1.012*		1.011**
<b>Visa subclass</b>			
200	1 (Base)		1 (Base)
201	0.667		1.093
202	0.712		0.873
203	-		-
204	0.845		0.917
866 non-UMA	0.602*		0.590**
866 UMA	0.619		0.587
<b>Country of birth</b>			
Afghanistan	1 (Base)	1 (Base)	1 (Base)
Iran	0.837	1.132	1.019
Iraq	1.550**	2.223**	1.769***
Burma/Myanmar	1.451	1.606	1.507*
Rest of mid-East	1.494	0.946	1.297
Rest of Asia	1.716*	4.129***	2.468***
Africa	0.700	0.354	0.600
Rest of world	-	-	-
<b>Remoteness Area Index (ABS 2011)</b>			
Major Cities of Australia		1 (Base)	
Inner Regional Australia		2.321	
Outer Regional Australia		1.370*	
Partnered			
No		1 (Base)	
Yes		1.443*	
Don't know/prefer not to say		1.547	
<b>Employed</b>			
Yes		1 (Base)	
No		0.073*	
Don't know/prefer not to say		0.104	
<b>Constant</b>	<b>0.374**</b>	<b>4.329</b>	<b>0.408***</b>

Notes: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . Gender included as a control variable but not used in survey raking procedure.

## Factors predicting participants from Wave 1 completing a Wave 6 interview

A set of survey weights were also calculated to adjust for attrition between Waves 1 and 6. Separate statistical models were estimated to identify the factors associated with survey participation in Wave 6 for PA, SA and all participants. Overall, 1,223 participants from Wave 1 also completed an interview in Wave 6. This number was made up of 743 PAs and 480 SAs. Model results showing the factors associated with survey participation in Wave 6 by applicant type are shown in Table H.4.

Significant factors in the PA model included country of birth (born in Burma/Myanmar more likely to participate), older age, visa subclass (866 non-UMA less likely to participate) and housing tenure (other housing and refusals less likely to participate).

SA participation in Wave 6 was also significantly associated with country of birth, with those born in the rest of Asia more likely to complete a Wave 6 interview. SAs located in Inner Regional Australia at Wave 1 were also more likely to complete an interview at Wave 6.

**Table H.4:** Results of multivariate logistic regression models predicting survey participation in Wave 6, by participant type at Wave 1, odds ratios

BNLA Wave 1 characteristic	PA model	SA model	All participants
<b>Gender</b>			
Male	0.990	0.806	0.863
Female	1 (Base)	1 (Base)	1 (Base)
<b>Visa subclass</b>			
200	1 (Base)		1 (Base)
201	2.633		4.000
202	0.712		0.966
203	-		
204	1.020		0.951
866 non-UMA	0.655*		0.648**
866 UMA	0.813		0.711
Age (years)	1.012**		1.008*
<b>Country of birth</b>			
Afghanistan	1 (Base)	1 (Base)	1 (Base)
Iran	0.961	0.972	1.100
Iraq	1.227	1.539	1.449**
Burma/Myanmar	1.905**	1.650	1.868**
Rest of mid-East	1.307	0.772	1.137
Rest of Asia	1.427	2.223*	1.729**
Africa	1.277	0.503	1.002
Rest of world	0.485	-	0.391*
<b>Remoteness Area Index (ABS 2011)</b>			
Major Cities of Australia		1 (Base)	1 (Base)
Inner Regional Australia		2.913**	1.632**
Outer Regional Australia		-	2.366*
<b>Housing tenure</b>			
Temporary (e.g. no contract)	1 (Base)		1 (Base)
Short term lease/contract (i.e. less than 6 months)	0.841		0.729

BNLA Wave 1 characteristic	PA model	SA model	All participants
Long term lease/contract (i.e. more than 6 months)	0.926		0.802
Other	0.261**		0.219***
Prefer not to say/don't know	0.371*		0.308***
<b>Constant</b>	<b>0.655</b>	<b>0.885</b>	<b>0.888</b>

Notes: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . Gender included as a control variable but not used in survey raking procedure. Due to very small number of PA participants who were in 'Other' housing tenure at Wave 1, housing variable while a significant predictor of participation not used in the survey raking procedure.

## Factors predicting participants from Wave 1 completing a Wave 3, Wave 5 and Wave 6 interview

For this wave, we also undertook analysis of the factors associated with survey participation in Waves 1, 3, 5 and 6. This analysis can help to identify the characteristics of participants who participated in all of the home visit interviews as well as Wave 6 (where home visits was expected to be the main mode of data collection but CAWI was also available). These waves of data collection also involved a much longer interview compared with Waves 2 and 4. Overall, 1,023 participants (603 PAs; 420 SAs) completed the 4 interviews.

The results in Table H.5 model the probability of completing a Wave 1, 3, 5 and 6 survey relative to the group who did not complete at least one of these interviews. The model results show PAs who arrived on an 866-non-UMA visa were less likely to complete the 4 waves (compared with those on a Refugee 200 visa) as well as those migrating as single person (compared with a nuclear couple family with children under 18). PAs living in 'other' type of housing arrangement in Wave 1, compared with those in temporary housing, were also less likely to complete a Wave 1, 3, 5 and 6 interview. Apart from country of birth (participants born in Iraq being more likely to complete the 4 waves), factors associated with participation were different among SAs. SAs born in the rest of Asia were more likely than those born in Afghanistan to participate in the 4 waves, as were SAs located in Inner Regional Australia in Wave 1 (compared with those in major cities). SAs who were not employed in Wave 1 were also less likely to complete a Wave 1, 3, 5, and 6 interview compared with those employed at Wave 1.

**Table H.5:** Results of multivariate logistic regression models predicting survey participation in Wave 1, Wave 3, Wave 5 and Wave 6, by participant type at Wave 1, odds ratios

BNLA Wave 1 characteristic	PA model	SA model	All participants
<b>Gender</b>			
Male	0.901	0.728*	0.845
Female	1 (Base)	1 (Base)	1 (Base)
<b>Visa subclass</b>			
200	1 (Base)		1 (Base)
201	1.121		1.441
202	0.621		0.953
203	-		-
204	1.168		1.130
866 non-UMA	0.656*		0.634**
866 UMA	0.656		0.630
Age (years)	1.013**		1.011**
<b>Migrating unit structure</b>			
Couple family with children under 18 (no other family members)	1 (Base)		1 (Base)
Couple family with children under 18 and other family members	1.149		1.008
Couple family only (no other family members)	0.659		0.761

BNLA Wave 1 characteristic	PA model	SA model	All participants
Couple family and other family members but no children under 18	0.936		0.915
Single parent family with children under 18 (no other family members)	0.684		0.581*
Single parent family with children under 18 and other family members	1.065		1.231
Other immediate family members	0.606		0.614*
Other extended family members only	-		-
Non-related persons	-		-
Single person	0.711*		0.665**
<b>Country of birth</b>			
Afghanistan	1 (Base)	1 (Base)	1 (Base)
Iran	0.927	0.858	1.000
Iraq	1.546**	1.628*	1.602***
Burma/Myanmar	1.357	1.431	1.443
Rest of mid-East	1.471	0.730	1.118
Rest of Asia	1.445	2.863**	1.906***
Africa	0.760	0.215*	0.618
Rest of world	-	-	-
<b>Employed</b>			
Yes		1 (Base)	
No		0.098*	
Don't know/prefer not to say		0.209	
Remoteness Area Index (ABS 2011)			
Major Cities of Australia		1 (Base)	1 (Base)
Inner Regional Australia		2.799**	1.685
Outer Regional Australia		39.045*(a)	1.698
<b>Housing tenure</b>			
Temporary (e.g. no contract)	1 (Base)		
Short term lease/contract (i.e. less than 6 months)	0.947		
Long term lease/contract (i.e. more than 6 months)	0.949		
Other	0.257**		
Prefer not to say/don't know	0.472		
<b>Constant</b>	<b>0.508</b>	<b>6.795</b>	<b>0.510***</b>

Notes: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . Gender included as a control variable but not used in survey raking procedure. Due to very small number of PA participants who were in 'Other' housing tenure at Wave 1, housing variable while a significant predictor of participation not used in the survey raking procedure. a When interpreting the model results for remoteness area, please note that only a small number of SA participants ( $n = 8$ ) were in the outer regional category and this may explain the large odds ratio for this variable in the model.

### H.3 Survey weights available in the Wave 6 dataset

In total, 12 survey weights are available in the Wave 6 BNLA dataset. Three population and 9 longitudinal survey weights are provided in the dataset. These survey weights and their variable names are described further below:



## Population weights

1. *fwgt* – Wave 6 all participant survey weight. Visa subclass, region (capital city), marital status and country of birth information were used in developing this survey weight. This survey weight ranged from 0.27 to 2.50 and was also capped at a maximum value of 2.5. It is recommended that this survey weight be used when analysing survey questions asked of all respondents in Wave 6.
2. *fpawgt* – Wave 6 PA survey weight. Visa subclass, region (capital city), country of birth, family size and marital status variables were used to develop this survey weight. PA survey weights ranged from 0.29 to 2.50. The PA weight was constrained to take a maximum value of 2.5.
3. *fsawgt* – Wave 6 SA survey weight. Visa subclass, region (capital city) and country of birth information were used in the survey weighting for this variable. This survey weight ranged from 0.33 to 2.50 and was also capped at a maximum value of 2.5.

## Longitudinal weights

1. *a\_fwgt* – Waves 1, 2, 3, 4, 5 and 6 balanced panel longitudinal survey weight for all participants. Visa subclass, country of birth, age and migrating unit structure were used in the survey weighting for this variable. This survey weight ranged from 0.70 to 2.03.
2. *a\_fpawgt* – Waves 1, 2, 3, 4, 5 and 6 balanced panel longitudinal weight for Principal Applicants. The following variables were used to develop this survey weight: age, visa subclass, country of birth, post-traumatic stress (PTSD-8) and migrating unit structure. The calculated survey weights ranged in value from 0.56 to 2.00.
3. *a\_fsawgt* – Waves 1, 2, 3, 4, 5 and 6 balanced panel longitudinal survey weight for Secondary Applicants. Remoteness area index, partner status, employment and country of birth variables were used to develop this survey weight. Waves 1-6 SA longitudinal survey weights ranged from 0.50 to 1.55.
4. *afwgt* – Wave 1/6 all participant longitudinal survey weight. Age, visa subclass, country of birth, remoteness area index and housing tenure were used to derive this survey weight. This survey weight ranged from 0.65 to 1.42.
5. *afpawgt* – Wave 1/6 Principal Applicant longitudinal survey weight. The following variables were used to develop this survey weight: age, visa subclass, country of birth and housing tenure. The calculated survey weights ranged in value from 0.73 to 1.36.
6. *afsawgt* – Wave 1/6 Secondary Applicant longitudinal survey weight. Country of birth and remoteness area index variables were used to develop this survey weight. Wave 1/5/6 SA longitudinal survey weights ranged from 0.58 to 1.23.
7. *acefwgt* – Wave 1/3/5/6 all participant longitudinal survey weight. Visa subclass, age, migrating unit structure, country of birth and remoteness area index variables were used to derive this weight. This survey weight ranged from 0.60 to 2.00.
8. *acefpawgt* – Wave 1/3/5/6 Principal Applicant longitudinal survey weight. Visa subclass, age, migrating unit structure, country of birth and housing tenure variables were used to generate this weight. This survey weight ranged from 0.66 to 1.78.
9. *acefsawgt* – Wave 1/3/5/6 Secondary Applicant longitudinal survey weight. Remoteness area index, employment and country of birth information were used to derive this weight. This survey weight ranged from 0.52 to 1.45.

## Appendix I: Fieldwork response rates

In Wave 1 a total of 1,509 PAs, 755 SA Adults and 135 SA Adolescents were interviewed, taking the total number of face-to-face interviews to 2,399. Appendix B provides further analysis of survey completion by visa subclass and gender.

Participation and response rates of PAs for Wave 1 of the study are detailed in Table I.1. The table reports response rates in several ways in accordance with the standardised response rates developed by the American Association for Public Opinion Research (AAPOR). Firstly, response rates were examined as the proportion of the total eligible sample ( $n = 4,035$ ). A rate of 37% was achieved using this criterion. However, this includes individuals/families who were not initiated for contact, could not be contacted or who refused. Secondly, response rates can be examined as the proportion of the cohort who were initiated for contact ( $n = 2,769$ ). Using this criterion, a rate of 55% was achieved (see Response Rate 2). Thirdly, using the criterion of the proportion who were successfully contacted ( $n = 2,031$ ), a response rate of 74% was achieved (see Cooperation Rate 1). This includes people who were successfully contacted but could not proceed with an interview for a variety of reasons, such as the quota was met, they moved to an area outside of the scope of interviewing or were unavailable for the duration of the fieldwork period. Finally, a response rate was calculated using the proportion who were successfully contacted and eligible to proceed with an interview (Cooperation Rate 2). Using this criterion, Table I.1 shows that 83% of respondents who were contacted and able to proceed with an interview agreed to participate, while 17% refused. Rates were very high across the visa subclasses (with the exception of the 866 non-UMA visa subclass group with a rate of 58%). Thus, inability to contact potential participants was the largest reason for non-response, while the rate of refusal was relatively low.

**Table I.1: PAs – Participation and response rates by visa subclass, Wave 1**

Visa subclass	Initiated for contact ( $n$ )	Completed interviews ( $n$ )	Response rate 1 (%)	Response rate 2 (%)	Cooperation rate 1 (%)	Cooperation rate 2 (%)
200	1,589	942	41.6	59.3	80.4	85.2
201	19	8	33.3	42.1	66.7	66.7
202	79	42	37.5	53.2	70.0	75.0
204	292	183	45.6	62.7	83.6	89.3
866 UMA	453	234	42.2	51.7	70.5	85.4
866 non-UMA	336	100	14.8	29.8	42.2	58.1
<b>Total</b>	<b>2,769</b>	<b>1,509</b>	<b>37.4</b>	<b>54.5</b>	<b>74.3</b>	<b>82.7</b>

**Notes:** Formulas for calculating standardised response rates have been developed by the AAPOR: [www.aapor.org/response-rates](http://www.aapor.org/response-rates)

Response rate 1 calculated as the proportion of the eligible sample who completed an interview.

Response rate 2 calculated as the proportion of the sample initiated for contact who completed an interview. This is consistent with the way the AAPOR Response Rate 1 is calculated.

Cooperation rate 1 calculated as the proportion of the sample successfully contacted who completed an interview. This is consistent with the way the AAPOR Cooperation Rate 1 is calculated.

Cooperation rate 2 calculated as the proportion of the sample successfully contacted and eligible to proceed, who completed an interview. This is consistent with the way the AAPOR Cooperation Rate 2 is calculated.

It is important to note that from Wave 2 onwards:

- SA Adolescents who had turned 18 answered the adult questions on the SA survey
- some original SAs completed a PA survey in cases where they had moved out of the original household and became the PA for the survey.

Therefore, the number of interviews by 'Survey Type' (the <a-e>survey variable) reflects the number of principal/secondary questionnaires completed and, from Wave 2 onwards, differs from the number of interviews by the original 'Applicant Type' (the zaplicant variable). In this section of the Data Users Guide, the numbers of interviews for each wave and calculation of retention, response and participation rates are all based on the original applicant type at Wave 1 (e.g. PA, SA Adult or SA Adolescent), regardless of the type of survey completed. This allows accurate tracking of retention for the different participant types (otherwise the number of completed SA Adult surveys would artificially increase because of the inclusion of SA Adolescents and there would be a corresponding apparent drop in the number of SA Adolescent surveys).

A total of 2,009 interviews were completed in Wave 2, comprised of 1,268 PAs, 626 SA Adults and 115 SA Adolescents. Appendix B provides further analysis of survey completion by visa subclass and gender.

Participation rates for Wave 2 are indicated in Table I.1 for PAs and Table I.2 for SAs. Two types of response rates were used to describe Wave 2 outcomes: Response Rate 2 and Cooperation Rate 2. The first response rate examines completed interviews as a proportion of the sample initiated for contact (PA:  $n = 1,509$ ; SA:  $n = 890$ ). Using this criterion, a rate of 84% for PAs and 83% for SAs was achieved (see Response Rate 2). A cooperation rate was calculated as the proportion who were successfully contacted and eligible to proceed with an interview who took part. Using this criterion, 95% of PAs and 96% of SAs who were successfully contacted agreed to take part.

There were some differences by visa subgroup. PAs in the 204 visa category (i.e. woman at risk) had the lowest response rate (77%) but one of the highest cooperation rates (97%). This indicates that once respondents in this subgroup could be contacted, almost all were happy to take part. Conversely, SAs in this category had higher response rates (84%). Those in the 202 visa category had lower rates compared to the other visa subgroups (83% among PAs and 70% among SAs). It can also be observed that PAs in the onshore group had the lowest cooperation rate of all of the visa subclasses (92% for the 866 UMA; 89% for the 866 non-UMA).

**Table I.2: PAs – Participation and response rates by visa subclass, Wave 2**

Visa subclass	Eligible sample (n)	Sample initiated (n)	Successfully contacted & eligible to proceed (n)	Completed interviews (n)	Response rate 2 (%)	Cooperation rate 2 (%)
200	942	942	844	807	85.7	95.6
201	8	8	7	7	87.5	100.0
202	42	42	37	35	83.3	94.6
204	183	183	146	141	77.0	96.6
866 UMA	234	234	213	196	83.8	92.0
866 non-UMA	100	100	92	82	82.0	89.1
<b>Total</b>	<b>1,509</b>	<b>1,509</b>	<b>1,339</b>	<b>1,268</b>	<b>84.0</b>	<b>94.7</b>

**Notes:** Formulas for calculating standardised response rates have been developed by the AAPOR: [www.aapor.org/response-rates](http://www.aapor.org/response-rates)

Response rate 2 calculated as the proportion of the sample initiated for contact who completed an interview. This is consistent with the way the AAPOR Response Rate 1 is calculated.

Cooperation rate 2 calculated as the proportion of the sample successfully contacted and eligible to proceed, who completed an interview. This is consistent with the way the AAPOR Cooperation Rate 3 is calculated.

**Table I.3: SAs – Participation and response rates by visa subclass, Wave 2**

Visa subclass	Eligible sample (n)	Sample initiated (n)	Successfully contacted & eligible to proceed (n)	Completed interviews (n)	Response rate 2 (%)	Cooperation rate 2 (%)
200	686	686	604	580	84.5	96.0
201	2	2	2	2	100.0	100.0
202	47	47	38	33	70.2	86.8
204	109	109	93	92	84.4	98.9
866 UMA	26	26	24	21	80.8	87.5
866 non-UMA	20	20	14	13	65.0	92.9
<b>Total</b>	<b>890</b>	<b>890</b>	<b>775</b>	<b>741</b>	<b>83.3</b>	<b>95.6</b>

**Notes:** Formulas for calculating standardised response rates have been developed by the AAPOR: [www.aapor.org/response-rates/](http://www.aapor.org/response-rates/)

Response rate 2 calculated as the proportion of the sample initiated for contact who completed an interview. This is consistent with the way the AAPOR Response Rate 1 is calculated.

Cooperation rate 2 calculated as the proportion of the sample successfully contacted and eligible to proceed, who completed an interview. This is consistent with the way the AAPOR Cooperation Rate 3 is calculated.

A total of 1,894 interviews were completed in Wave 3, which included 1,155 PAs, 624 SA Adults and 115 SA Adolescents. Participation rates for Wave 3 are indicated in Table I.3 for PAs and Table I.4 for SAs. The participation and response rates for Wave 3 follow the same approach as those calculated for Wave 2.

Firstly, looking at the proportion of the eligible sample at the beginning of the Wave 3 main fieldwork who completed a survey, an overall rate of 77% for PAs and 83% for SAs was achieved. Secondly, response rates were examined as the proportion of the sample who were successfully contacted and eligible to proceed. Using this criterion, a cooperation rate of 94% for PAs and 95% for SAs was achieved.

The cooperation rate data at Wave 3 also showed that the study continues to experience relatively low rates of refusal. However, there were some differences in participation rates by visa subgroups. For PAs, the 866 UMA group had the lowest overall response rate of 63% but a higher cooperation rate of 92% of eligible PAs.

**Table I.4: PAs – Participation and response rates by visa subclass, Wave 3**

Visa subclass	Eligible sample (n)	Sample initiated (n)	Successfully contacted & eligible to proceed (n)	Completed interviews (n)	Response rate 2 (%)	Cooperation rate 2 (%)
200	939	939	790	752	80.1	95.2
201	8	8	7	6	75.0	85.7
202	41	41	29	28	68.3	96.6
204	183	183	150	147	80.3	98.0
866 UMA	98	98	174	62	63.3	92.0
866 non-UMA	229	229	82	160	69.9	75.6
<b>Total</b>	<b>1,498</b>	<b>1,498</b>	<b>1,232</b>	<b>1,155</b>	<b>77.1</b>	<b>93.8</b>

**Notes:** Formulas for calculating standardised response rates have been developed by the AAPOR: [www.aapor.org/response-rates/](http://www.aapor.org/response-rates/)

Response rate 2 calculated as the proportion of the sample initiated for contact who completed an interview. This is consistent with the way the AAPOR Response Rate 1 is calculated.

Cooperation rate 2 calculated as the proportion of the sample successfully contacted and eligible to proceed, who completed an interview. This is consistent with the way the AAPOR Cooperation Rate 3 is calculated.

**Table I.5: SAs – Participation and response rates by visa subclass, Wave 3**

Visa subclass	Eligible sample (n)	Sample initiated (n)	Successfully contacted & eligible to proceed (n)	Completed interviews (n)	Response rate 2 (%)	Cooperation rate 2 (%)
200	684	684	612	586	85.7	95.8
201	2	2	2	1	50.0	50.0
202	46	46	34	33	71.7	97.1
204	109	109	94	94	86.2	100.0
866 UMA	19	19	19	11	57.9	73.7
866 non-UMA	26	26	15	14	53.8	73.3
<b>Total</b>	<b>886</b>	<b>886</b>	<b>776</b>	<b>739</b>	<b>83.4</b>	<b>95.2</b>

**Notes:** Formulas for calculating standardized response rates have been developed by the AAPOR: [www.aapor.org/response-rates/](http://www.aapor.org/response-rates/)

Response rate 2 calculated as the proportion of the sample initiated for contact who completed an interview. This is consistent with the way the AAPOR Response Rate 1 is calculated.

Cooperation rate 2 calculated as the proportion of the sample successfully contacted and eligible to proceed, who completed an interview. This is consistent with the way the AAPOR Cooperation Rate 3 is calculated.

A total of 1,929 interviews were completed in Wave 4, which included 1,186 PAs, 628 SA Adults and 115 SA Adolescents (although by this time all SA Adolescents were of an age to complete an adult interview, and there were no adolescent questionnaires administered in Wave 4). Participation rates for Wave 4 are indicated in Table I.5 for PAs and Table I.6 for SAs. The participation and response rates for Wave 4 follow the same approach as those calculated in previous waves.

Based on the eligible sample in Wave 4, an overall response rate of 80% for PAs and 85% for SAs was achieved. These response rates were higher than those achieved in Wave 3 for both groups. The proportion of participants successfully contacted who completed an interview – the cooperation rate – was 96% for both PAs and SAs. This proportion was also higher than in Wave 3 for both respondent types. As in previous waves, there were differences in participation rates by visa subclass. PAs and SAs on 866 and 202 visas were more difficult to contact, as shown by the lower response rates. Nevertheless, participants on 202 and 866 UMA visas showed high cooperation rates. PAs and SAs on 866 non-UMA visas had the lowest cooperation rates in Wave 4 (84% and 80% respectively), although these cooperation rates were higher than in Wave 3.

**Table I.6: PAs – Participation and response rates by visa subclass, Wave 4**

Visa subclass	Eligible sample (n)	Sample initiated (n)	Successfully contacted & eligible to proceed (n)	Completed interviews (n)	Response rate 2 (%)	Cooperation rate 2 (%)
200	928	928	806	784	84.5	97.3
201	8	8	7	7	87.5	100.0
202	40	40	33	29	72.5	87.9
204	182	182	156	154	84.6	98.7
866 UMA	224	224	151	146	65.2	96.7
866 non-UMA	93	93	79	66	71.0	83.5
<b>Total</b>	<b>1,475</b>	<b>1,475</b>	<b>1,221</b>	<b>1,186</b>	<b>80.4</b>	<b>96.3</b>

**Notes:** Formulas for calculating standardised response rates have been developed by the AAPOR: [www.aapor.org/response-rates/](http://www.aapor.org/response-rates/)

Response rate 2 calculated as the proportion of the sample initiated for contact who completed an interview. This is consistent with the way the AAPOR Response Rate 1 is calculated.

Cooperation rate 2 calculated as the proportion of the sample successfully contacted and eligible to proceed, who completed an interview. This is consistent with the way the AAPOR Cooperation Rate 3 is calculated.

**Table I.7: SAs – Participation and response rates by visa subclass, Wave 4**

Visa subclass	Eligible sample (n)	Sample initiated (n)	Successfully contacted & eligible to proceed (n)	Completed interviews (n)	Response rate 2 (%)	Cooperation rate 2 (%)
200	676	676	609	587	86.8	96.4
201	2	2	2	2	100.0	100.0
202	45	45	32	31	68.9	96.9
204	109	109	97	94	86.2	96.9
866 UMA	23	23	18	17	73.9	94.4
866 non-UMA	19	19	15	12	63.2	80.0
<b>Total</b>	<b>874</b>	<b>874</b>	<b>773</b>	<b>743</b>	<b>85.0</b>	<b>96.1</b>

**Notes:** Formulas for calculating standardized response rates have been developed by the AAPOR: [www.aapor.org/response-rates/](http://www.aapor.org/response-rates/)

Response rate 2 calculated as the proportion of the sample initiated for contact who completed an interview. This is consistent with the way the AAPOR Response Rate 1 is calculated.

Cooperation rate 2 calculated as the proportion of the sample successfully contacted and eligible to proceed, who completed an interview. This is consistent with the way the AAPOR Cooperation Rate 3 is calculated.

A total of 1,881 interviews were completed in Wave 5, which included 1,144 PAs, 624 SA Adults and 116 SA Adolescents (although there were no adolescent questionnaires administered in Wave 5). Participation rates for Wave 5 are indicated in Table I.7 for PAs and Table I.8 for SAs. The participation and response rates for Wave 5 follow the same approach as those calculated in previous waves.

Based on the eligible sample in Wave 5 an overall response rate of 78% for PAs and 85% for SAs was achieved. These response rates were slightly higher than those achieved in Wave 3 for both groups. This higher response rate observed for SAs reflects that there were fewer challenges in locating and making contact with SA participants in Wave 5.

The proportion of participants successfully contacted who completed an interview – the cooperation rate – was around 95% for both PAs and SAs. As in previous waves, there were differences in participation rates by visa subclass, with the lowest response rates and cooperation rates observed among respondents holding an 866 non-UMA visa. The data presented in Tables I.7 and I.8 indicate that respondents in the 866 non-UMA subgroup were the most difficult to locate as well as being the least likely to take part in a Wave 5 interview.

**Table I.8: PAs – Participation and response rates by visa subclass, Wave 5**

Visa subclass	Eligible sample (n)	Sample initiated (n)	Successfully contacted & eligible to proceed (n)	Completed interviews (n)	Response rate 2 (%)	Cooperation rate 2 (%)
200	922	922	793	753	81.7	94.9
201	8	8	7	7	87.5	100.0
202	41	41	33	32	78.0	97.0
204	181	181	153	149	82.3	97.4
866 UMA	223	223	159	150	67.3	94.3
866 non-UMA	91	91	70	53	58.2	75.7
<b>Total</b>	<b>1,466</b>	<b>1,466</b>	<b>1,215</b>	<b>1,144</b>	<b>78.0</b>	<b>94.0</b>

**Notes:** Formulas for calculating standardised response rates have been developed by the AAPOR: [www.aapor.org/response-rates/](http://www.aapor.org/response-rates/)

Response rate 2 calculated as the proportion of the sample initiated for contact who completed an interview. This is consistent with the way the AAPOR Response Rate 1 is calculated.

Cooperation rate 2 calculated as the proportion of the sample successfully contacted and eligible to proceed, who completed an interview. This is consistent with the way the AAPOR Cooperation Rate 3 is calculated.

**Table I.9: SAs – Participation and response rates by visa subclass, Wave 5**

Visa subclass	Eligible sample (n)	Sample initiated (n)	Successfully contacted & eligible to proceed (n)	Completed interviews (n)	Response rate 2 (%)	Cooperation rate 2 (%)
200	671	671	607	577	86.0	95.1
201	2	2	2	2	100.0	100.0
202	45	45	36	31	68.9	86.1
204	109	109	100	100	91.7	100.0
866 UMA	22	22	18	17	77.3	94.4
866 non-UMA	18	18	14	10	55.6	71.4
<b>Total</b>	<b>867</b>	<b>867</b>	<b>777</b>	<b>737</b>	<b>85.0</b>	<b>94.9</b>

**Notes:** Formulas for calculating standardized response rates have been developed by the AAPOR: [www.aapor.org/response-rates/](http://www.aapor.org/response-rates/)

Response rate 2 calculated as the proportion of the sample initiated for contact who completed an interview. This is consistent with the way the AAPOR Response Rate 1 is calculated.

Cooperation rate 2 calculated as the proportion of the sample successfully contacted and eligible to proceed, who completed an interview. This is consistent with the way the AAPOR Cooperation Rate 3 is calculated.

Based on the eligible sample in Wave 6 an overall response rate of 54.2% was achieved. The response rate was much lower than what was achieved in Wave 5. The lower response rate may be attributed to the 5 year gap between Waves 5 and 6 and locating and successfully contacting participants after that length of time.

The proportion of participants successfully contacted who completed an interview – the cooperation rate – was 73.5%. As in previous waves, there were differences in participation rates by visa subclass, with the lowest response rates and cooperation rates observed among respondents holding an 866 visa. The data presented in Table I.11 indicate that respondents in the 866 visa category were the most difficult to locate as well as being the least likely to take part in a Wave 6 interview.

**Table I.10:** All respondents - Cooperation and response rates for Waves 2 to 6

	Eligible sample/ Sample initiated ( <i>n</i> )	Successfully contacted & eligible to proceed ( <i>n</i> )	Completed interviews ( <i>n</i> )	Response rate 1 (%)	Cooperation rate 1 (%)
Wave 2	2,399	2,114	2,009	83.7	95.0
Wave 3	2,384	2,008	1,894	79.4	94.3
Wave 4	2,349	1,994	1,929	82.1	96.7
Wave 5	2,333	1,992	1,881	80.6	94.4
Wave 6	2,256	1,665	1,223	54.2	73.5

**Table I.11:** All respondents - Participation and response rates by visa subclass, Wave 6

Visa subclass	Eligible sample/ Sample initiated ( <i>n</i> )	Successfully contacted & eligible to proceed ( <i>n</i> )	Completed interviews ( <i>n</i> )	Response rate 1 (%)	Cooperation rate 1 (%)
200	1,545	1,166	870	56.3	74.6
201	10	10	8	80.0	80.0
202	85	57	41	48.2	71.9
204	282	197	154	54.6	78.2
866 UMA	237	158	101	42.6	63.9
866 non-UMA	97	77	49	50.5	63.6
<b>Total</b>	<b>2,256</b>	<b>1,665</b>	<b>1,223</b>	<b>54.2</b>	<b>73.5</b>

## Appendix J: Instrument display

An example of how questions were displayed on screen is provided in Figure J.1 and Figure J.2 for the Main survey and Figure J.3 and Figure J.4 for the Youth Module. For comparison, Figure J.5 and Figure J.6 provide examples of how questions were displayed on screen for Wave 5.

**Figure J.1:** Screenshot of Question C7A from Main survey – Wave 6

Building a New Life in Australia  
The Longitudinal Study of Humanitarian Migrants

1800 329 999  
www.bnla.com.au

Test 49

Have you ever studied English in Australia?

Yes

No

Don't know

Prefer not to say

Does not apply

**Figure J.2:** Screenshot of Question H3 from Main survey – Wave 6

Building a New Life in Australia  
The Longitudinal Study of Humanitarian Migrants

1800 329 999  
www.bnla.com.au

Test 45

Now still thinking about Government services, have you experienced any of the following **in the last 12 months?**

Did not know where to get help

Yes

No

Don't know

Prefer not to say

Does not apply

**Figure J.3:** Screenshot of Question C4 from Youth Module – Wave 6

Building a New Life in Australia  
The Longitudinal Study of Humanitarian Migrants

1800 329 999  
www.bnla.com.au

Test 43

Thinking about your English, how well do you...

Understand spoken English

Very Well

Well

Not well

Not at all

Don't know

Prefer not to say

Does not apply



Figure J.4: Screenshot of Question C18 from Youth Module – Wave 6

Building a New Life in Australia  
The Longitudinal Study of Humanitarian Migrants

1800 228 900  
www.bnla.com.au

Since you moved to Australia, have you provided interpreting assistance to members of your family?

Never  
Rarely  
Sometimes  
Often  
Very often  
Don't know  
Prefer not to say  
Does not apply

Figure J.5: Screenshot from Question H3 from BNLA CASI – Wave 5

Building a New Life in Australia

H3 Now thinking about Government services (e.g. Medicare, Centrelink, public housing), have any of these made it difficult to get help from these services?

	Yes	No	Don't know	Prefer not to say
Did not know where to get help	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transport difficulties	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Language difficulties	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Was afraid that my information would not be kept private	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Figure J.6: Screenshot of Question F22x from BNLA CASI – Wave 5

Building a New Life in Australia

F22x Were there any services that you wanted or needed to access while in the refugee camps but couldn't? (please mark all that apply)

No  
Yes, health/medical services (e.g. doctor, hospital)  
Yes, school  
Yes, English language classes  
Yes, job training  
Yes, employment  
Yes, counselling services  
Yes, legal services (e.g. lawyers, police)  
Yes, other

Get more Prefer not to say Done on page

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