PROJECT AIR FORCE

CHILDREN AND FAMILIES

EDUCATION AND THE ARTS

ENERGY AND ENVIRONMENT

HEALTH AND HEALTH CARE

INFRASTRUCTURE AND TRANSPORTATION

INTERNATIONAL AFFAIRS

LAW AND BUSINESS

NATIONAL SECURITY

POPULATION AND AGING

PUBLIC SAFETY

SCIENCE AND TECHNOLOGY

TERRORISM AND HOMELAND SECURITY

The RAND Corporation is a nonprofit institution that helps improve policy and decisionmaking through research and analysis.

This electronic document was made available from www.rand.org as a public service of the RAND Corporation.

Skip all front matter: Jump to Page 1

Support RAND

Purchase this document

Browse Reports & Bookstore

Make a charitable contribution

For More Information

Visit RAND at www.rand.org

Explore RAND Project AIR FORCE

View document details

Limited Electronic Distribution Rights

This document and trademark(s) contained herein are protected by law as indicated in a notice appearing later in this work. This electronic representation of RAND intellectual property is provided for non-commercial use only. Unauthorized posting of RAND electronic documents to a non-RAND website is prohibited. RAND electronic documents are protected under copyright law. Permission is required from RAND to reproduce, or reuse in another form, any of our research documents for commercial use. For information on reprint and linking permissions, please see RAND Permissions.

This product is part of the RAND Corporation technical report series. Reports may include research findings on a specific topic that is limited in scope; present discussions of the methodology employed in research; provide literature reviews, survey instruments, modeling exercises, guidelines for practitioners and research professionals, and supporting documentation; or deliver preliminary findings. All RAND reports undergo rigorous peer review to ensure that they meet high standards for research quality and objectivity.

Errata

To: Recipients of TR-879-AF, Year of the Air Force Family: 2009 Survey of Active-Duty Spouses (2010)

From: RAND Corporation Publications and Creative Services Department

Date: September 5, 2012

Re: Corrected page 74

The attachment replaces page 74. The original page inadvertently repeated equations from Appendix B. The revised page includes the correct equations for the regression and weighting.

We weighted the responses to match the following airman population characteristics:

1. family
   a. officers married to service members
   b. officers married to civilians
   c. enlisted married to service members
   d. enlisted married to civilians
2. rank
   a. junior enlisted (airman basic, airman, airman first class, senior airman)
   b. senior enlisted (staff sergeant, technical sergeant, master sergeant, senior master sergeant, chief master sergeant)
   c. company-grade officer (second lieutenant, first lieutenant, captain)
   d. field-grade officer (major, lieutenant colonel, colonel)
3. children
   a. have children
   b. do not have children
4. race of the airman[1]
   a. white
   b. nonwhite.

A logistic regression with dummy variables for the above characteristics was used to estimate the probability that each of the 194,118 families in the population completed the survey:

$$y_{(\text{probability of completing survey})} = \frac{1}{1+e^{-z}} \quad ,$$

where

$$z = \beta_0 + \beta_{1-3} x_{family} + \beta_{4-6} x_{rank} + \beta_7 x_{children} + \beta_8 x_{race} + \varepsilon .$$

Weights were calculated as follows:

$$\text{weight} = \frac{1}{y} \text{ if survey completed and} = 0 \text{ if not.}$$

We completed data analyses using survey estimation procedures (StataCorp, 2007) to ensure appropriate estimates of standard errors.

[1] The personnel files do not indicate the race of the spouse.