Defense Health Agency

2014 Health Related Behaviors Survey of Reserve Component Personnel

Methodology

September 2015

Defense Health Agency (DHA)

2014 Health Related Behaviors (HRB) Reserve Component Survey – Methodology

September 2015

Presented by

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1.0 Study Methodology

The 2014 HRB Reserve Component Survey is modelled on the HRB Survey conducted among Active Duty military personnel for more than 30 years and among the Reserve Component since 2006. The Department of Defense (DoD) initiated the HRB Survey in 1980 to guide program and policy development based on an improved understanding of the nature, causes and consequences of substance use in the military. The analysis of the survey results was guided by research objectives that assess the prevalence, nature, and characteristics of health related behaviors. This document provides methodological information about survey administration, data preparation and analysis, and reporting.

1.1   Study Population

The eligible population included all non-activated, military Reserve personnel from six Components: Army National Guard, Army Reserve, Navy Reserve, Air National Guard, Air Force Reserve, and the Marine Corps Reserve. The eligible population did not include:

- Recruits, service academy students, personnel absent without official leave (AWOL), or personnel incarcerated at the time of data collection,
- Reservists deployed at the time of the data collection, as these individuals are considered to be on Active Duty,
- Full-time Reserve Unit Support, Individual Ready Reserve, or retired Reserve Component personnel.

The geographic boundaries of the study population included those living within the continental United States, as well as the American territories of Puerto Rico, Guam, American Samoa, and the Virgin Islands.

1.2   Sample

In 2011, DHA changed the mode of administration among the Active Duty population to a web-based format, which eliminated the need for geographically clustered sample and resulted in the introduction of a stratified sample. In line with the sampling approach for the 2011 Active Duty survey, the 2014 HRB Reserve Component Survey utilized a web-based approach with a non-proportional, stratified random sample. The following variables were used for stratification purposes: Reserve Component, gender, and pay grade, for a total of 72 possible strata. The six Components were considered primary strata for sampling.

On July 29, 2014, DMDC provided a final sampling for the preparation of a non-proportional stratified sample and determination of the sample size and allocation. The initial specification identified a population size of 755,652 individuals. Table 1.2 shows the population distribution by strata.

1.2 Population Parameters							
	Army National Guard	**Army Reserve**	**Navy Reserve**	**Marine Corps Reserve**	**Air Force Reserve**	**Air Force National Guard**	**Total Reserve Component**
Gender							
Male	274,877	144,653	46,519	37,611	43,863	65,227	612,750
Female	51,826	42,728	12,995	1,672	16,586	17,095	142,902
Pay Grade							

E1-E3	74,279	29,724	6,594	19,011	5,292	13,288	148,188
E4-E6	179,683	99,295	32,577	13,633	32,387	41,037	398,612
E7-E9	32,042	24,266	6,011	2,223	10,365	15,282	90,189
O1-O3	22,331	16,392	5,138	1,665	3,380	4,623	53,529
O4 –O10	11,995	14,590	9,031	2,446	8,911	7,974	54,947
W1-W5	6,373	3,114	163	305	114	118	10,187
Total	**326,703**	**187,381**	**59,514**	**39,283**	**60,449**	**82,322**	**755,652**

To increase the number completed surveys, an additional sample (referred to as cohort 2) was drawn. This sampling approach for cohort 2 was similar to the original (referred to as cohort 1) with an increased threshold sample size for each stratum. This approach successfully increased the number of responses collected.

1.3   Survey Instrument

The 2014 HRB Reserve Component Survey was based on the 2011 HRB Active Duty Survey. The 2011 HRB Active Duty Survey represented a new instrument with considerable changes to streamline the instrument and tailor it for a web distribution. This new format substantially eased respondent burden as it enabled the use of skip logic which dynamically updates the instrument based on selections. Deloitte revised the 2011 HRB Active Duty Survey instrument slightly to make the questionnaire appropriate for the Reservist population and to update it based on current priorities.

1.4   Licensing and Approvals

The survey was licensed; the DoD RCS number was DD-HA(AR)2189. The survey research protocol was reviewed and approved by Liberty Institutional Review Board (IRB) on July 23, 2014. The Office of the Assistant Secretary of Defense for Health Affairs/TRICARE Management Activity (OASD HA/DHA), Human Subjects in Research Protection Office provided secondary approval on August 8, 2014. A Data Sharing Agreement was approved on August 19, 2014.

1.5   Survey Administration

DHA fielded the HRB Reserve Component Survey online, a first for the Reserve population. Unique survey links were created that only the intended respondent could use, and survey invitations were distributed via email. Because of this functionality, respondents were able to save their progress and re-visit the survey if they were unable to complete it in one sitting.

The survey was fielded over five months. For cohort 1, an email notification was sent to alert respondents to the survey, followed by an invitation email. Six reminder emails were distributed throughout the fielding period. To increase the number of completed surveys, an additional sample was invited and added in December; an invitation and two reminder emails were distributed to cohort 2. The email communications conveyed the importance and purpose of the survey, confidentiality of responses, and DoD support of the effort. The Strategic Communications team at DHA promoted the survey through internal channels to increase awareness and familiarity with the survey and in turn, yield a higher response rate.

The survey team made special accommodations to reach the Marine Reservists, most of whose email addresses were not available. The Deloitte Team worked with DMDC and Marine Corps Online (MOL) to

reach all Marine Corps Reservists in the sample. Zogby sent pre-notification, launch, and reminder emails to those whose email addresses are available to the Defense Manpower Data Center (DMDC), and MOL sent emails to the remainder of sampled Marine Corps Reserve personnel.

Respondents who wanted to verify the legitimacy of the request or authority of the survey or who wanted to address questions to a military source were forwarded to DHA's Analytics Division Senior Health Care Research Analyst, Dr. Kimberley Marshall Aiyelawo. Respondents could also verify the survey's legitimacy by visiting the DHA survey web page. Information on survey support and verification were provided on every page of the survey. Technical support to address respondent concerns was provided by a helpdesk, accessible via email and a toll-free telephone number.

1.6   Respondents

Of the initial sample, a portion of the subjects invited to participate were ineligible to complete the survey because the survey invitation email was delivered to an inactive email account (i.e., bounced back). Of the eligible respondents, a small percentage submitted unusable responses. Usable responses were those that remained after: the data cleaning procedures listed below were conducted and the response was determined to be complete, meaning the respondent had 1) started the survey, and 2) answered at least one question in the alcohol section (Q45 through Q69). Table 1.6 summarizes the disposition of responses for both cohort 1 and cohort 2.

Table 1.6 Sample and Responses Received								
	Sample					**Responses**		
	Initial Sample	**Unusable: Email Bounce-backs**	**Unusable: On Active Duty**	**Unusable: Did Not Consent**	**Final Sample**	**Initial Responses**	**Unusable**	**Final Responses**
Army National Guard	67,324	4,488	146	256	62,434	4,539	981	3,558
Army Reserve	68,364	5,420	403	319	62,222	4,947	1388	3,559
Navy Reserve	40,522	4,401	210	245	35,666	3,953	1017	2,936
Marine Corps Reserve	22,878	163	55	46	22,614	728	246	482
Air Force Reserve	43,058	323	74	246	42,415	4,887	1149	3,738
Air National Guard	49,268	769	84	424	47,991	6,075	1989	4,086
Total	*291,414*	*15,564*	*972*	*1,536*	*273,342*	*25,129*	*6,770*	*18,359*

Unlike in the 2010-2011 Reserve Component report, the Active Guard and Reserve (AGR) population is included in these analyses. Twenty-nine percent of the Reserve Component responses in the 2014 HRB survey are from the AGR population. Logistic regressions were conducted to compare the AGR population to the non-AGR population across key demographic characteristics and instrument

questions. This revealed that AGR responses were not statistically significantly different than the rest of the Reserve Component.

1.6.1   Data Cleaning Procedures

We conducted data cleaning and checking procedures to ensure a high level of quality control for the survey results. In accordance with the Privacy Act, all identifiers such as name and address were removed to ensure that respondents could not be identified. Our data cleaning protocol included the following steps:

1. **Examine for out-of-range values.** Simple frequencies were performed on all survey items to determine if any out of range values exist. If an out-of-range value was found, analysts attempted to ascertain the correct value. If the value was unable to be determined, it was set to missing.
2. **Delete blank records.** If 100% of the non-demographic items were missing or blank, the record was deleted.
3. **Delete straight-liners.** If a respondent answered using the same response category for a certain percentage of questions to be determined of the total questions in a given survey section, it was likely that the respondent was not reading the question and was simply answering the same way for all questions. Such records were reviewed and removed from appropriate analyses.
4. **Delete test cases.** Any data gleaned from test cases were removed prior to analysis of actual respondent data.
5. **Combine numeric variables where applicable.** Combined numeric variables that are on multiple scales into one variable. For instance, combined feet and inches to create one variable for weight.
6. **Code the skip patterns.** Skip patterns in the instrument were identified and observations that missed the questions due to the patterns were coded accordingly (rather than as missing data).

1.6.2   Response Rates

Response rate calculation followed protocols from the 2011 Active Duty Survey. Response rate reports were calculated by taking the number of completed surveys (defined as a respondent having started and submitted the survey) and dividing it by the size of the sample that has been reached (number of emails minus the number of bouncebacks received). Response rates were prepared overall and by Component.

The overall response rate for the first cohort was 7.8%; the overall response rate was 5.7% for the second cohort. The highest response rates were obtained from the Air National Guard and Air Force Reserves, followed by Navy Reserves. The lowest response rate was obtained from the Marine Corps Reserve.

The total number of respondents reached in the sample and the total number of useable responses are displayed by Component and overall in the Table 1.6.2.
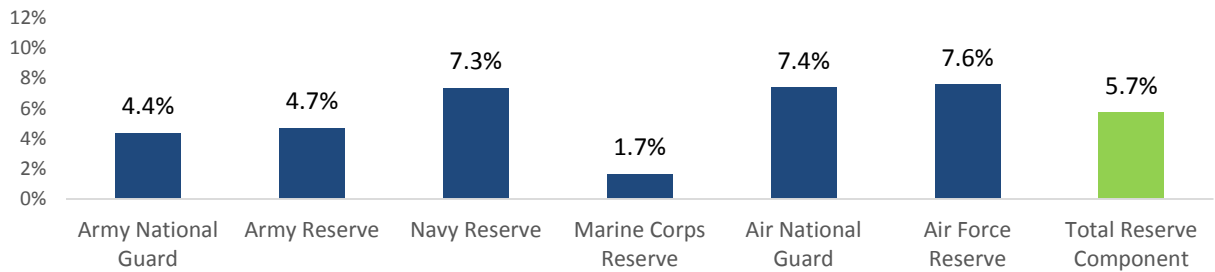
Cohort 1
September 9, 2014 – January 31, 2015
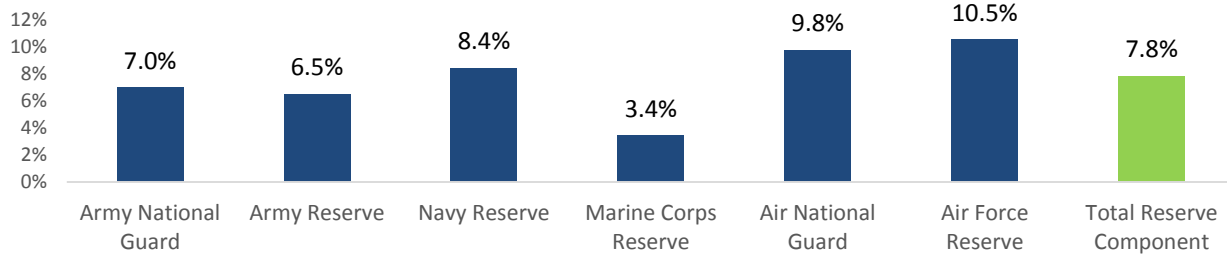
Cohort 2
December 2, 2014 – January 31, 2015

Table 1.6.2 Overall Response Rate							
	Army National Guard	**Army Reserve**	**Navy Reserve**	**Marine Corps Reserve**	**Air National Guard**	**Air Force Reserve**	**Total**
Completed Responses	3,558	3,559	2,936	482	4,086	3,738	*18,359*
Sample Reached *(number of emails sent minus the number of bouncebacks received)*	62,434	62,222	35,666	22,614	47,991	42,415	*273,342*
Total Component Population *(DMDC estimate in Summer 2014)*	326,703	187,381	59,514	39,283	60,449	82,322	*755,652*
Response Rate *(response / sample reached)*	5.7%	5.7%	8.2%	2.1%	8.5%	8.8%	*6.7%*
Percentage of Total Component Population Represented *(responses / total Component population)*	1.1%	1.9%	4.9%	1.2%	6.8%	4.5%	*2.4%*

1.7   Non-Response Analysis

A non-response analysis was conducted to detect any systematic differences between individuals who completed the survey and those who did not complete the survey. Both unit and item non-response were analyzed to confirm that the missingness in the data was missing at random.

The analysis assumed that the non-responses can be considered as ignorable non-responses; that is, missing at random (MAR, meaning that the response probability does not depend on outcome variables but only on demographic variables). To detect unit non-response bias, comparisons of respondents versus non respondents across strata were evaluated by applying logistic regression on the demographic variables (including Component, pay-grade, and gender to determine stratification). No other demographic variable other than Component, pay-grade, and gender was statistically significant with α=5%. We noted that some demographic variables (e.g., pay-grade and age) are correlated, but because we fixed the three variables for stratification in the model, the other correlated variables are not significant given this model specification. Therefore, we consider all subjects in the same stratum to have the same response rate and performed the nonresponse weighting adjustment.

To examine the data for item non-response bias, key questions from each survey section were modeled as predictors against sociodemographic characteristics. The two analyses concluded that weighting the data to account for item and unit nonresponse in the analyses was most appropriate. Weighting procedures are detailed below.

1.8   Weighting

The data weighting approach was consistent with the weighting approach used in the 2011 Active Duty survey. A full weight was calculated using two weights: 1) a base weight was calculated to account for the disproportionate stratification approach and unequal selection probabilities among strata, and 2) a differential non-response weight.

1) *Design weight* is the inverse of the selection probability (number of cases fielded/frame size). It accounts for the differences in the basic probability of selection among strata. The probability of selection varied between strata because the stratum sizes differed. The design weight accounts for these differences. There were 72 strata defined by the respondent's Service Component (six groups), gender (two groups), and pay group (six groups). For a case *i* in sub-stratum *h* *(h=1,2,…,72)*, the design weight was calculated as:

$$w1_{ih} = \frac{N_h}{n_h}$$

where N_h is the population count and n_h is the number of sampled units in sub-stratum *h*.

2) The second weight adjusts for differential response rates across strata. Respondents in a stratum with a lower response rate will represent more cases in that stratum than a case in a stratum with a higher response rate. An adjusted response rate is the number of useable surveys (defined as a respondent having completed key demographic questions and at least one question in the alcohol section) divided by the number of eligible respondents reached. The response rate is calculated separately for each stratum. For a case *i* in sub-stratum *h*, the nonresponse weight was calculated as:

$$w2_{ih} = \frac{n_h}{r_h}$$

where n_h is the number of sampled units and r_h is the number of completed cases in sub-stratum *h.*

The full weight adjusts the combined effects of unequal selection probabilities and differential nonresponses, and is calculated by:

$$w3_{ih} = w1_{ih} \times w2_{ih} = \frac{N_h}{r_h}$$

2.0 Results Interpretation

2.1   Analytic Approach

Data analyses were designed to respond to research questions aimed at measuring key health behaviors to guide policy and program development. The approach was as streamlined and straightforward as possible while maintaining analytical robustness. For the sake of continuity, past HRB Survey reports were considered in the development of this plan, and analyses were aligned to past reports where possible.

Data were analyzed according to the research objectives outlined in the 2014 HRB Survey Analysis Plan using SAS Version 9.4. Most analysis are descriptive statistics presented as two- or three-way cross-tabulations. Chi-square tests of association were used to identify differences in the distributions of categorical variables; to provide more information on specific differences in estimates, pairwise comparison of estimates were conducted and Bonferroni adjustments were applied to p-values to minimize Type I error as a result of performing multiple comparisons. For some research objectives, logistic analysis was conducted.

Beginning in 1992, the HRB Survey has benchmarked military health behaviors against the U.S. Department of Health and Human Services' (HHS) Healthy People objectives. In continuation of this approach, the 2014 HRB survey results were compared with Healthy People 2020 Objectives where possible. Further, comparisons to national, well-regarded civilian surveys were included where possible.

2.2   Appending Sample Data

Each respondent completed a survey using a link unique to them. The unique link methodology allowed response patterns to be followed closely. Additionally, after the survey closed and the data were downloaded, the following sample data were connected to corresponding survey responses: Reserve Component, gender, and pay grade. No email addresses or any other identifiable information were attached to survey responses in order to protect respondent privacy. In cases where respondents did not provide a response as to their Reserve Component, gender, or pay grade, the sample data was used. Additionally, eight respondents self-reported as Officer Trainees, which was not an officially recognized Pay Grade category. The paygrades for these eight respondents were replaced with their pay grade values from the sample data file.

2.3   Reporting Approach

Survey results were reported using two formats: a series of 12 written topical reports, and infographics. These reporting modes were designed to make the HRB survey data as useful as possible for stakeholders, both for understanding results and for use in decision-making.

2.3.1   Topical Reports

The topical reports are content-focused, digestible reports designed to make survey findings accessible to leadership and other stakeholders. The topical reports include findings responding to research objectives and by topic. They are stand-alone Word documents each with their own analyses and recommendations. Six Component briefs provide an overview of results for each of the six Components. The six topical reports address the following topics:
- Physical Health and Healthy Lifestyle

- Alcohol Use
- Nicotine and Tobacco Use
- Substance Use and Abuse; Installation Policy on Substances
- Stress/Mental Health
- Deployment

2.3.2   Infographics

Infographic reports were created to provide visual representations of the data for communicating key results to all audiences. These graphics accompany the written topical reports. The infographics were provided in a PDF format, allowing them to be shared with stakeholders without the need for additional software.

2.4   Variability and Suppression of Estimates

The survey team followed the same protocols for variability and suppression of estimates as reported in the 2011 Active Duty Survey results. Throughout the topical reports, analytic tables present the estimate and the standard error. The estimate represents the percentage of the population with the characteristics defined in the columns and rows of each table. The standard error is a measure of variability that is calculated when presenting survey estimates from a sample rather than from the total Reserves population.

When reporting estimates from survey data, it is common to suppress estimates that may be statistically unreliable or that have low response rates which may jeopardize respondent confidentiality.[1] Estimates may be unreliable if they are based on a small sample size or if there are large sampling errors, as reflected in the standard error. Suppressed estimates were not presented in the 2014 HRB RC reports. Estimates were suppressed if the following criteria were met:

1. For mean estimates, a relative standard error (RSE), the ratio of the standard error to the estimate, greater than 30%;[2]
2. For estimates expressed as proportions, an RSE of the natural log of the estimate greater than 0.225;[3] or
3. The number of cases in the denominator of an estimate was fewer than 30 service members.

Suppressed estimates are indicated with a dagger (†) in the report tables.

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[1] Blumberg, S. J. (2008). Cell suppression. In P. J. Lavrakas (Ed.), Encyclopedia of survey research methods, volume 1. (p. 90). Los Angeles, CA: SAGE Publications, Inc.

[2] Klein, R.J., Proctor, S.E., Boudreault, M.A., & Turczyn, K.M. (2002). Healthy People 2010 Criteria for Data Suppression. *Healthy People 2010*, *24*, 1-11. A number of surveys that provide Healthy People benchmarks use an RSE of greater than 30% as criterion for estimate suppression, including: Medical Expenditure Panel Survey (MEPS), National Ambulatory Medical Care Survey (NAMCS), National Health Interview Survey (NHIS), National Health and Nutrition Examination Survey (NHANES), National Hospital Ambulatory Medical Care Survey (NHAMCS), National Hospital Discharge Survey (NHDS), National Survey of Family Growth (NSFG).

[3] Use of the RSE is problematic with proportions because it imposes stricter suppression requirements on very small estimates than it does on very large estimates. The sample size required for small proportions to achieve a very small standard error is much larger than the sample size required for an estimate closer to 0.5. The RSE $[-\ln(p)] = SE(p)/(-p*\ln(p))$ where p is the estimate and SE(p) is the standard error of the estimate; for proportions greater than 50%, the RSE was calculated using 1-p. This is consistent with estimate suppression of proportions in prior Health Related Behaviors survey reports.

2.5   Study Limitations

There are inherent limitations in survey research. The HRB study is based on self-reported data, for which respondents provide data about their own behaviors. Accuracy of this information is dependent on respondents' ability and willingness to provide correct information. Military personnel in particular may be less likely to report sensitive information due to the strict military code of conduct. Measures were taken to assure respondents about the confidentiality of their responses, but the distribution of the survey through military email addresses may impair that message. Concerns about confidentiality may lead to personnel underreporting sensitive behaviors. Where possible, data were interpreted in the context of other sources of information, such as well-regarded health-related behavior surveys for the civilian population. Additionally, a lower response rate may not be representative of the total population; a non-response rate bias analysis was conducted to determine how to best interpret the results. Lastly, several variables were created based on survey responses that suggest a possible mental health problem. These are not clinical diagnoses; creation of these variables are based on protocols used in the 2011 HRB Active Duty Survey.

3.0 Appendix A: Changes Made to the 2014 HRB Reserve Component Web Survey

The 2014 HRB Reserve Component Survey is based on the 2011 HRB Active Duty Survey. The survey team made revisions to make the questionnaire appropriate for the Reservist population and to update it based on current priorities.

Appendix A is organized to show:
1) Questions added from the 2011 HRB Reserve Component Survey
2) One question added to the 2014 HRB Reserve Component Survey
3) Questions modified from the 2011 HRB Active Duty Survey
4) Questions removed

3.1   Questions Added From the 2011 HRB Reserve Component Survey

BASE: ALL RESPONDENTS – MANDATORY
Q2. What is your membership category in the Reserve Component?

1. Drilling unit Reservist/Traditional Guardsman
2. Individual Mobilization Augmentee (IMA)
3. Active Guard/Reserve Program (AGR/FTS/AR), in full-time National Guard Duty

BASE: ALL RESPONDENTS - MANDATORY
Q5. Are you currently . . .? Fill in one response for each line

1. Yes
2. No

a) Working part-time as a National Guard/Reservist (i.e., drilling weekends, Annual Training only, not currently activated)
b) Working full-time as a National Guard/Reservist (i.e., currently activated)
c) Working full-time in a civilian job
d) Working part-time in a civilian job
e) Working as self-employed in own business or profession
f) Unpaid worker (volunteer)
g) In school
h) A homemaker, housewife, househusband
i) Working multiple jobs
j) Working temporary job(s)

BASE: ALL RESPONDENTS - MANDATORY
Q6. What was your annual household income from ALL sources last year? Please estimate your annual household income before taxes were taken out. As with all information you provide on this survey, your answer to this question will be kept confidential.

1. Less than $15,000
2. $15,000 to $19,999

3.　$20,000 to $24,999
4.　$25,000 to $34,999
5.　$35,000 to $44,999
6.　$45,000 to $49,999
7.　$50,000 to $74,999
8.　$75,000 or more

BASE: ALL RESPONDENTS
Q7. As of today, how many months have you been assigned to your present drill or duty station? (Include any extension of your present tour. Do not count previous tours at this duty station.)

1.　1 month or less
2.　2-3 months
3.　4-6 months
4.　7-12 months
5.　13-18 months
6.　19-24 months
7.　25-36 months
8.　More than 3 years

BASE: ALL RESPONDENTS
Q8. In all, how many years have you served in the National Guard or Reserves?

1.　Less than 6 months
2.　At least 6 months, but less than 1 year
3.　At least 1 year, but less than 2 years
4.　At least 2 years, but less than 3 years
5.　At least 3 years, but less than 4 years
6.　At least 4 years, but less than 5 years
7.　At least 5 years, but less than 10 years
8.　At least 10 years, but less than 20 years
9.　20 or more years

BASE: ALL RESPONDENTS
Q9. In the past 12 months, what is the total number of actual days you spent performing your military duty in the National Guard or Reserves? Do not include days spent in annual training.

1.　Less than 21 days
2.　At least 21 days, but less than 28 days
3.　At least 28 days, but less than 35 days
4.　At least 35 days, but less than 60 days
5.　At least 60 days, but less than 90 days
6.　More than 90 days

3.2   Question Added to the 2014 HRB Reserve Component Survey

BASE: ALL RESPONDENTS
Q179   Are you taking this survey on...

a.   A personal computer
b.   A work (non-military related) computer
c.   A computer on base
d.   Other

3.3   Questions Modified From the 2011 HRB Active Duty Survey and the 2010/2011 Reserve Component Survey

2011 HRB Active Duty or 2010/2011 Reserve Question	Final 2014 HRB Reserve Component Question	Explanation of the Change
BASE: ALL RESPONDENTS - MANDATORY **Q1. In which Service are you serving?** 1. Army 2. Navy 3. Marine Corps 4. Air Force 5. Coast Guard	BASE: ALL RESPONDENTS **Q1. In which component of the Military do you currently serve?** 1. Army National Guard (ARNG) 2. Army Reserve (USAR) 3. Naval Reserve (USNR) 4. Air National Guard (ANG) 5. Air Force Reserve (USAFR) 6. Marine Corps Reserve (USMCR)	Revised question text and choice text to apply to the Reserve Component (RC) based on the language in the 2011 HRB RC Survey The question is no longer mandatory as sample data will contain this information
BASE: ALL RESPONDENTS – MANDATORY **QR2. What is your membership category in the Reserve Component?** 1. Drilling unit Reservist/Traditional Guardsman 2. Individual Mobilization Augmentee (IMA) 3. Active Guard/Reserve Program (AGR/FTS/AR), in full-time National Guard Duty	BASE: ALL RESPONDENTS – MANDATORY **Q2. What is your membership category in the Reserve Component?** 1. Drilling unit Reservist/Traditional Guardsman 2. Individual Mobilization Augmentee (IMA) 3. Active Guard/Reserve Program (AGR/FTS/AR) 4. Full-time National Guard Duty 5. Individual Ready Reserve [REMOVE FROM SURVEY] 6. Mobilized or Deployed Personnel [REMOVE FROM SURVEY] 7. Retired Reserve Component Personnel [REMOVE FROM SURVEY] 8. Decline to answer	Turned into a filter question by adding choices for groups of respondents that should not take the survey; also added "Full-time National Guard Duty" as an option Added "Decline to answer" as an option to maintain respondents' ability to opt out of answering a question
BASE: ALL RESPONDENTS - MANDATORY **Q3. What is your current pay grade?** 1. E1 - E4	BASE: ALL RESPONDENTS **Q3. What is your current pay grade?** 1. E1 – E3 2. E4 - E6	The question is no longer mandatory as sample data will contain this information. Additionally, response choices

2011 HRB Active Duty or 2010/2011 Reserve Question	Final 2014 HRB Reserve Component Question	Explanation of the Change
2. E5 - E6 3. E7 - E9 4. Officer Trainee 5. WO1 - WO5 6. O1 - O3 7. O4 - O10	3. E7 - E9 4. Officer Trainee 5. WO1 - WO5 6. O1 - O3 7. O4 - O10	were changed to reflect sampling stratification requirements for the Reserve Component population.
BASE: ALL RESPONDENTS - MANDATORY **Q4. Are you…?** 1. Male 2. Female	BASE: ALL RESPONDENTS **Q4. Are you…?** 1. Male 2. Female	The question is no longer mandatory as sample data will contain this information
BASE: ALL RESPONDENTS - MANDATORY **Q6. What was your annual household income from ALL sources last year? Please estimate your annual household income before taxes were taken out. As with all information you provide on this survey, your answer to this question will be kept confidential.** 1. Less than $15,000 2. $15,000 to $19,999 3. $20,000 to $24,999 4. $25,000 to $34,999 5. $35,000 to $44,999 6. $45,000 to $49,999 7. $50,000 to $74,999 8. $75,000 or more 9. Decline to answer	BASE: ALL RESPONDENTS - MANDATORY **Q6. What was your annual household income from ALL sources last year? Your annual household income includes your salary as well as that of your spouse or significant other if you reside together. Please estimate your annual household income before taxes were taken out. As with all information you provide on this survey, your answer to this question will be kept confidential.** 1. Less than $15,000 2. $15,000 to $19,999 3. $20,000 to $24,999 4. $25,000 to $34,999 5. $35,000 to $44,999 6. $45,000 to $49,999 7. $50,000 to $74,999 8. $75,000 or more 9. Decline to answer	Added "Your annual household income includes your salary as well as that of your spouse or significant other if you reside together." for clarity during beta testing

2011 HRB Active Duty or 2010/2011 Reserve Question	Final 2014 HRB Reserve Component Question	Explanation of the Change
BASE: ALL RESPONDENTS – MANDATORY **QR6. Are you currently . . .? Fill in one response for each line** 1. Yes 2. No [RANDOMIZE A-J] a. Drilling unit Reservist/Traditional Guardsman (i.e., drilling weekends not currently activated, Annual Training only) b. Working full-time as National Guard/Reservist (i.e., currently active) c. Working full-time in a civilian job d. Working part-time in a civilian job e. Working as self-employed in own business or profession f. Unpaid worker (volunteer) g. In school h. A homemaker, housewife, househusband i. Working multiple jobs j. Working temporary job(s) k. Unemployed	BASE: ALL RESPONDENTS – MANDATORY **Q5. Are you currently . . .? Fill in one response for each line** 1. Yes 2. No 3. Decline to answer [RANDOMIZE A-J] a. Drilling unit Reservist/Traditional Guardsman (i.e., drilling weekends not currently activated, Annual Training only) b. Working full-time in the Active Guard/Reserve Program or Full-time National Guard Duty c. Working full-time in a civilian job d. Working part-time in a civilian job e. Working as self-employed in own business or profession f. Unpaid worker (volunteer) g. In school h. A homemaker, housewife, househusband i. Working multiple jobs j. Working temporary job(s) k. Unemployed	Changed choice b to accommodate those who work in the Active Guard/Reserve program Added "Decline to answer" as an option to maintain respondents' ability to opt out of answering a question
BASE: ALL RESPONDENTS - MANDATORY **QR7. What was your annual household income from ALL sources last year? Please estimate your annual household income before taxes were taken out. As with all information you provide on this survey, your answer to this question will be kept confidential.** 1. Less than $15,000 2. $15,000 to $19,999 3. $20,000 to $24,999 4. $25,000 to $34,999 5. $35,000 to $44,999 6. $45,000 to $49,999 7. $50,000 to $74,999	BASE: ALL RESPONDENTS - MANDATORY **Q6. What was your annual household income from ALL sources last year? Your annual household income includes your salary as well as that of your spouse or significant other if you reside together. Please estimate your annual household income before taxes were taken out. As with all information you provide on this survey, your answer to this question will be kept confidential.** 1. Less than $15,000 2. $15,000 to $19,999	Added additional explanation to clarify the question. Added "Decline to answer" as an option to maintain respondents' ability to opt out of answering a question

2011 HRB Active Duty or 2010/2011 Reserve Question	Final 2014 HRB Reserve Component Question	Explanation of the Change
8. $75,000 or more	3. $20,000 to $24,999 4. $25,000 to $34,999 5. $35,000 to $44,999 6. $45,000 to $49,999 7. $50,000 to $74,999 8. $75,000 or more 9. Decline to answer	
BASE: ALL RESPONDENTS **QR10. In the past 12 months, what is the total number of actual days you spent performing your military duty in the National Guard or Reserves? Do not include days spent in annual training.** 1. Less than 21 days 2. At least 21 days, but less than 28 days 3. At least 28 days, but less than 35 days 4. At least 35 days, but less than 60 days 5. At least 60 days, but less than 90 days 6. More than 90 days	BASE: ALL RESPONDENTS **Q9. In the past 12 months, what is the total number of days you spent performing your military duty in the National Guard or Reserves in an authorized duty status? Do not include days spent in annual training or drills.** 1. Less than 21 days 2. At least 21 days, but less than 28 days 3. At least 28 days, but less than 35 days 4. At least 35 days, but less than 60 days 5. At least 60 days, but less than 90 days 6. More than 90 days	Added "in an authorized duty status?" and "or drills" to the question text
BASE: ALL RESPONDENTS **Q10. Assuming you could stay on active duty beyond your current enlistment term, how likely is it that you would choose to do so?** 1. Very likely 2. Likely 3. Neither likely nor unlikely 4. Unlikely 5. Very unlikely	BASE: ALL RESPONDENTS **Q10. Suppose that you have to decide whether to stay in the National Guard or Reserves. Assuming you could stay, how likely is it that you would choose to do so?** 1. Very likely 2. Likely 3. Neither likely nor unlikely 4. Unlikely 5. Very unlikely	Changed "on active duty" to "in the National Guard or Reserves" based on the 2011 HRB RC Survey
BASE: ALL RESPONDENTS **Q11. If you could stay on active duty as long as you want, how likely is it that you would choose to serve in the military for at least 20 years?** 1. I already have 20 or more years of service 2. Very likely 3. Likely 4. Neither likely nor unlikely 5. Unlikely 6. Very unlikely	BASE: ALL RESPONDENTS **Q11. If you could stay in the National Guard or Reserves as long as you want, how likely is it that you would choose to serve for at least 20 years?** 1. I already have 20 or more years of service 2. Very likely 3. Likely 4. Neither likely nor unlikely 5. Unlikely 6. Very unlikely	Changed "on active duty" to "in the National Guard or Reserves" based on the 2011 HRB RC Survey
BASE: ALL RESPONDENTS - MANDATORY	BASE: ALL RESPONDENTS - MANDATORY	Added "Decline to answer" as an option to maintain

2011 HRB Active Duty or 2010/2011 Reserve Question	Final 2014 HRB Reserve Component Question	Explanation of the Change
Q18. Are you currently married? 1. No 2. Yes	**Q18. Are you currently married?** 1. No 2. Yes 3. Decline to answer	respondents' ability to opt out of answering a question
BASE: ALL RESPONDENTS **Q19. Is your spouse or significant other now living with you at your present duty location?** 1. I do not have a spouse or significant other 2. No, not living with me 3. Yes, living with me	BASE: ALL RESPONDENTS – MANDATORY **Q21. Is your spouse or significant other now living with you?** 1. I do not have a spouse or significant other 2. No, not living with me 3. Yes, living with me 4. Decline to answer	Removed "at your present duty location" Made the question mandatory and added "Decline to answer" as an option to maintain respondents' ability to opt out of answering a question
BASE: ALL MARRIED RESPONDENTS OR NOT MARRIED AND HAVE A SIGNIFICANT OTHER **Q20. Is your spouse or significant other also on active duty?** 1. I do not have a spouse or significant other 2. No, not on active duty 3. Yes, on active duty	BASE: ALL MARRIED RESPONDENTS OR NOT MARRIED AND HAVE A SIGNIFICANT OTHER **Q22. Is your spouse or significant other in the National Guard, Reserves, or on active duty?** 1. I do not have a spouse or significant other 2. No, not in the National Guard, Reserves, or on active duty 3. Yes, in the National Guard or Reserves 4. Yes, on active duty	Revised to include members of the National Guard and Reserves
BASE: ALL RESPONDENTS - MANDATORY **Q25. Do you have any children under age 18 living with you at your current duty station?** 1. No 2. Yes 3. Decline to answer	BASE: ALL RESPONDENTS - MANDATORY **Q28. Do you have any children under age 18 living with you?** 1. No 2. Yes 3. Decline to answer	Removed "at your current duty location"
BASE: HAVE CHILDREN UNDER 18 AT CURRENT DUTY STATION **Q25A. How many children under age 18 live with you at your current duty station?** Number of children: ___	BASE: HAVE CHILDREN UNDER 18 AT HOME **Q29. How many children under age 18 live with you?** Number of children: ___	Removed "at your current duty location"
BASE: HAVE CHILDREN UNDER 18 AT CURRENT DUTY STATION **Q25B. Are the children under age 18 who are living with you at your current duty station…? Please select ONE OR MORE responses that apply to you.**	BASE: HAVE CHILDREN UNDER 18 AT HOME **Q30. Are the children under age 18 who are living with you…? Please select ONE OR MORE responses that apply to you.** 1. Your own biological children	Removed "at your current duty location"

2011 HRB Active Duty or 2010/2011 Reserve Question	Final 2014 HRB Reserve Component Question	Explanation of the Change
1. Your own biological children 2. Step-children 3. Adoptive children 4. Foster children 5. Other children	2. Step-children 3. Adoptive children 4. Foster children 5. Other children	
BASE: HAVE CHILDREN UNDER 18 AT CURRENT DUTY STATION **Q25D. How easy or difficult would it be for the children under age 18 who are living with you at your current duty station to gain access to prescription medications within the home that are not intended for them?** 1. Very easy 2. Somewhat easy 3. Somewhat difficult 4. Very difficult 5. No such prescription medications	BASE: HAVE CHILDREN UNDER 18 AT HOME **Q32. How easy or difficult would it be for the children under age 18 who are living with you to gain access to prescription medications within the home that are not intended for them?** 1. Very easy 2. Somewhat easy 3. Somewhat difficult 4. Very difficult 5. No such prescription medications	Removed "at your present duty location"
BASE: ALL RESPONDENTS **Q29. On how many <u>work days</u> in the PAST 12 MONTHS did the following happen to you? Please select ONE response per row.** [GRID PRESENTATION] 1. More than 20 days 2. 12 to 20 days 3. 7 to 11 days 4. 4 to 6 days 5. 3 days 6. 2 days 7. 1 day 8. None a. I missed work due to an injury from an on-the-job accident b. I did not come to work at all because of an illness c. I did not come to work at all because of a personal accident	BASE: ALL RESPONDENTS **Q36. On how many <u>work days</u> <u>(including both civilian and military)</u> in the PAST 12 MONTHS did the following happen to you? Please select ONE response per row.** [GRID PRESENTATION] 1. More than 20 days 2. 12 to 20 days 3. 7 to 11 days 4. 4 to 6 days 5. 3 days 6. 2 days 7. 1 day 8. None a. I missed work due to an injury from an on-the-job accident b. I did not come to work at all because of an illness c. I did not come to work at all because of a personal accident	Added a definition of workday "(including both civilian and military)"
BASE: HAS HAD 12 OR MORE ALCOHOLIC DRINKS OVER LIFETIME AND DRANK ON AT LEAST 1 DAY IN THE PAST 12 MONTHS	BASE: HAS HAD 12 OR MORE ALCOHOLIC DRINKS OVER LIFETIME AND DRANK ON AT LEAST 1 DAY IN THE PAST 12 MONTHS	Changed the definition of a work day by removing "'Work day' refers to a day you worked at your duty station or were on

2011 HRB Active Duty or 2010/2011 Reserve Question	Final 2014 HRB Reserve Component Question	Explanation of the Change
Q45. On how many work days in the PAST 12 MONTHS did the following things happen to you? Please select ONE response per row. "Work day" refers to a day you worked at your duty station or were on quick-response (30 minutes or less) call. *[Answer choices are not listed for space reasons and because no changes were made to them]*	**Q54. On how many work days (including both civilian and military) in the PAST 12 MONTHS did the following things happen to you? Please select ONE response per row.** *[Answer choices are not listed for space reasons and because no changes were made to them]*	quick-response (30 minutes or less) call" and adding "(including both civilian and military)"
Q60. During the PAST 30 DAYS, on how many days did you have [IF MALE INSERT '5'; IF FEMALE INSERT '4'] or more drinks of beer, wine, or liquor on the same occasion? 1. About every day 2. 5 to 6 days a week 3. 3 to 4 days a week 4. 1 to 2 days a week 5. 2 to 3 days in the past 30 days 6. 1 day in the past 30 days 7. Not at all in the past 30 days	**Q60. During the PAST 30 DAYS, on how many days did you have…** **If you are male: …5 or more drinks of beer, wine, or liquor on the same occasion?** **If you are female: ... 4 or more drinks of beer, wine, or liquor on the same occasion?** 1. About every day 2. 5 to 6 days a week 3. 3 to 4 days a week 4. 1 to 2 days a week 5. 2 to 3 days in the past 30 days 6. 1 day in the past 30 days 7. Not at all in the past 30 days	Changed the question language to avoid using display logic within the question
BASE: USED ANY FORM OF SMOKELESS TOBACCO EVER (Q81=2) **Q73. During the PAST 12 MONTHS, how often on the average have you used chewing tobacco, snuff, or other smokeless tobacco?** 1. About every day 2. 5 - 6 days a week 3. 3 - 4 days a week 4. 1 - 2 days a week 5. 2 - 3 days a month 6. About once a month 7. Less than once a month 8. I have not used chewing tobacco, snuff, or other smokeless tobacco in the past 12 months	BASE: USED ANY FORM OF SMOKELESS TOBACCO EVER (Q81=2) – MANDATORY **Q82. During the PAST 12 MONTHS, how often on the average have you used chewing tobacco, snuff, or other smokeless tobacco?** 1. About every day 2. 5 - 6 days a week 3. 3 - 4 days a week 4. 1 - 2 days a week 5. 2 - 3 days a month 6. About once a month 7. Less than once a month 8. I have not used chewing tobacco, snuff, or other	Made the question mandatory and added "Decline to answer" as an option to maintain respondents' ability to opt out of answering a question

2011 HRB Active Duty or 2010/2011 Reserve Question	Final 2014 HRB Reserve Component Question	Explanation of the Change
	smokeless tobacco in the past 12 months 9. Decline to answer	

BASE: CAUSED OR HAD AN UNINTENDED PREGANCY IN THE PAST 12 MONTHS
Q96A. What form of birth control were you/your partner using when the unplanned pregnancy occurred? Please select ONE OR MORE responses that apply to you.
    1. No form of birth control
    2. Birth control pills
    3. IUD
    4. Withdrawal method
    5. Biological rhythm (natural family planning)
    6. Other form of birth control
	BASE: CAUSED OR HAD AN UNINTENDED PREGANCY IN THE PAST 12 MONTHS
	Q107. What form of birth control were you/your partner using when the unplanned pregnancy occurred? Please select ONE OR MORE responses that apply to you.
	    1. No form of birth control
	    2. Birth control pills
	    3. IUD
	    4. Withdrawal method
	    5. Biological rhythm (natural family planning)
	    6. Condoms
	    7. Other form of birth control
		Added condoms to the list of choices

BASE: ALL RESPONDENTS
Q101. Thinking about the installation at which you are currently stationed (such as your post, camp, base, station, ship and support facilities, or other geographic duty location), how strongly does it DISCOURAGE the use of the following? Please select ONE response per row.
Grid choices: Not at all, Somewhat discourages, Strongly discourages
    a) Cigarettes
    b) Chewing/ smokeless tobacco
    c) Alcohol
    d) Marijuana
    e) Prescription drug misuse
	BASE: ALL RESPONDENTS
	Q110. Thinking about your installation (such as your post, camp, base, station, ship and support facilities, or other geographic duty location), how strongly does it DISCOURAGE the use of the following? Please select ONE response per row.
	Grid choices: Not at all, Somewhat discourages, Strongly discourages
	    a) Cigarettes
	    b) Chewing/ smokeless tobacco
	    c) Alcohol
	    d) Marijuana
	    e) Prescription drug misuse
		Changed "the installation at which you are currently stationed" to "your installation"

BASE: ALL RESPONDENTS
Q102. Thinking about your immediate supervisor(s) at the installation where you are currently stationed, how strongly does he/she DISCOURAGE the use of the following? Please select ONE response per row.
Grid choices: Not at all, Somewhat discourages, Strongly discourages
    a) Cigarettes
    b) Chewing/ smokeless tobacco
	BASE: ALL RESPONDENTS
	Q111. Thinking about your immediate supervisor(s) at your installation, how strongly does he/she DISCOURAGE the use of the following? Please select ONE response per row.
	Grid choices: Not at all, Somewhat discourages, Strongly discourages
	    a) Cigarettes
	    b) Chewing/ smokeless tobacco
	    c) Alcohol
	    d) Marijuana
		Changed "the installation where you are currently stationed" to "your installation"

2011 HRB Active Duty or 2010/2011 Reserve Question	Final 2014 HRB Reserve Component Question	Explanation of the Change
c) Alcohol d) Marijuana e) Prescription drug misuse	e) Prescription drug misuse	
BASE: ALL RESPONDENTS **Q110. In the PAST 12 MONTHS, how many times did you drive or ride on a motorcycle?** 1. 40 or more times 2. 21 - 39 times 3. 11 - 20 times 4. 1 - 10 times 5. I didn't drive or ride on a motorcycle in the past 12 months	BASE: ALL RESPONDENTS – MANDATORY **Q117. In the PAST 12 MONTHS, how many times did you drive or ride on a motorcycle?** 1. 40 or more times 2. 21 - 39 times 3. 11 - 20 times 4. 1 - 10 times 5. I didn't drive or ride on a motorcycle in the past 12 months 6. Decline to answer	Made the question mandatory and added "Decline to answer" as an option to maintain respondents' ability to opt out of answering a question
BASE: ALL RESPONDENTS **Q109, In the PAST 12 MONTHS, about how many miles did you drive a privately-owned motorcycle on public roads and highways?** 1. 0 - not in the past 12 months 2. Less than 1,000 miles 3. 1,000 - 5,000 miles 4. 5,001 - 7,500 miles 5. 7,501 - 10,000 miles 6. 10,001 - 12,500 miles 7. 12,501 - 15,000 miles 8. More than 15,000 miles	BASE: DROVE OR RODE ON A MOTORCYCLE IN THE PAST 12 MONTHS **Q118, In the PAST 12 MONTHS, about how many miles did you drive a privately-owned motorcycle on public roads and highways?** 1. 0 - not in the past 12 months 2. Less than 1,000 miles 3. 1,000 - 5,000 miles 4. 5,001 - 7,500 miles 5. 7,501 - 10,000 miles 6. 10,001 - 12,500 miles 7. 12,501 - 15,000 miles 8. More than 15,000 miles	Changed the base from "All Respondents" to "drove a motorcycle in the past 12 months"; this necessitated switching the order of the questions in this section
BASE: ALL RESPONDENTS **Q107. In the PAST 12 MONTHS, how often did you wear a helmet when you drove or rode on a motorcycle?** 1. Always 2. Often 3. Sometimes 4. Seldom 5. Never 6. I didn't drive or ride on a motorcycle in the past 12 months	BASE: DROVE OR RODE ON A MOTORCYCLE IN THE PAST 12 MONTHS **Q118a. In the PAST 12 MONTHS, how often did you wear a helmet when you drove or rode on a motorcycle?** 1. Always 2. Often 3. Sometimes 4. Seldom 5. Never 6. I didn't drive or ride on a motorcycle in the past 12 months	Changed the base from "All Respondents" to "Drove a Motorcycle in the Past 12 Months"; this necessitated switching the order of the questions in this section
BASE: ALL RESPONDENTS **Q113. The following questions ask about your experience with gangs and gang activity in the military.**	BASE: ALL RESPONDENTS **Q122. The following questions ask about your experience with gangs**	Changed "active duty personnel" to "National Guard or Reserve personnel" in choice a

2011 HRB Active Duty or 2010/2011 Reserve Question	Final 2014 HRB Reserve Component Question	Explanation of the Change
Please select ONE response per row. Grid choices: No, Yes a) In the past 12 months, have you noticed any gang-related activities among active duty personnel? b) While in the military, have you been approached about joining a gang/crew in the past 12 months? c) While in the military, have you been a member of a gang/crew?	and gang activity in the military. Please select ONE response per row. Grid choices: No, Yes a) In the past 12 months, have you noticed any gang-related activities among **National Guard or Reserve personnel**? b) While in the military, have you been approached about joining a gang/crew in the past 12 months? c) While in the military, have you been a member of a gang/crew?	
BASE: ALL RESPONDENTS **Q131. Do you feel that you experience more stress in the military because you are a [IF MALE (Q4=1) INSERT 'man'; IF FEMALE (Q4=2) INSERT 'WOMAN]?** 1. No 2. Yes	BASE: ALL RESPONDENTS **Q131. Do you feel that you experience more stress in the military because of your gender?** 1. No 2. Yes	Changed the question language to avoid using display logic within the question
BASE: UNABLE TO DEPLOY IN PAST 12 MONTHS **Q142A. Why were you unable to deploy? Please select ONE OR MORE responses that characterize you.** 1. I was on training/I needed additional training 2. I was on leave/TAD/TDY 3. I was pregnant 4. I needed/had dental work or dental problems 5. I needed an HIV test 6. I had a family situation 7. I had an injury 8. I had an illness or medical condition 9. I had mental health problems 10. A family member in the Exceptional Family Member Program (EFMP) 11. Another reason	BASE: UNABLE TO DEPLOY IN PAST 12 MONTHS (Q152=2) **Q153. Why were you unable to deploy? Please select ONE OR MORE responses that characterize you.** 1. I was on training/I needed additional training 2. I was on TAD/TDY 3. I was pregnant 4. I had a job conflict 5. I needed an HIV test 6. I had a family situation 7. I had an injury 8. I had a medical/dental condition 9. I had mental health problems 10. A family member in the Exceptional Family Member Program (EFMP) 11. Another reason	Removed the word "leave" from choice 2, changed choice 8 to "I had a medical/dental condition," and added "I had a job conflict"

2011 HRB Active Duty or 2010/2011 Reserve Question	Final 2014 HRB Reserve Component Question	Explanation of the Change
BASE: HAD TO RETURN EARLY FROM DEPLOYMENT IN PAST 12 MONTHS **Q143A. Why did you return early from deployment or mission? Please select ONE OR MORE responses that best characterizes you.** 1. I was on training/I needed additional training 2. I was on leave/TAD/TDY 3. I was pregnant 4. I needed/had dental work or dental problems 5. I needed an HIV test 6. I had a family situation 7. I had an injury 8. I had an illness or medical condition 9. I had mental health problems 10. A family member in the Exceptional Family Member Program (EFMP) 11. Another reason	BASE: HAD TO RETURN EARLY FROM DEPLOYMENT IN PAST 12 MONTHS (Q154=2) **Q155. Why did you return early from deployment or mission? Please select ONE OR MORE responses that best characterizes you.** 1. I was on training/I needed additional training 2. I was on TAD/TDY 3. I was pregnant 4. I had a job conflict 5. I needed an HIV test 6. I had a family situation 7. I had an injury 8. I had a medical/dental condition 9. I had mental health problems 10. A family member in the Exceptional Family Member Program (EFMP) 11. Another reason	Removed the word "leave" from choice 2, changed choice 8 to "I had a medical/dental condition," and added "I had a job conflict"
BASE: AT LEAST 1 COMBAT DEPLOYMENT **Q161. In the PAST 12 MONTHS, approximately how many months were you away on COMBAT zone deployments?** 1. Not at all in past 12 months 2. 1 month or less 3. 2 months or less 4. 3 or 4 months 5. 5 or 6 months 6. 7 or 8 months 7. 9 or 10 months 8. 11 or 12 months	BASE: AT LEAST 1 COMBAT DEPLOYMENT **Q171. In the PAST 24 MONTHS, approximately how many months were you away on COMBAT zone deployments?** 1. Not at all in past 12 months 2. 1 month or less 3. 2 months or less 4. 3 or 4 months 5. 5 or 6 months 6. 7 or 8 months 7. 9 or 10 months 8. 11 or 12 months 9. 13 or 18 months 10. 19 or 24 months	Changed to "24 months" based on the 2011 HRB RC Survey and added two choices

3.4   Questions Removed

Most demographic questions were removed because they are not applicable to the Reserve population. They were replaced with the appropriate demographic questions from the 2011 HRB Reserve Component Survey. Several additional questions were removed; these topics included internet usage, deployment to several specific relief missions, and sexual orientation; they are also listed below.

Demographics

BASE: OAST GUARD (Q1=5) - MANDATORY
Q2A. Within which United States Coast Guard district is your unit located? Please select ONE.
Click here to see a map of Coast Guard

1.   Headquarters - Washington, DC [need to align codes in dataset to match these]
2.   District 1
3.   District 5
4.   District 7
5.   District 8
6.   District 9
7.   District 11
8.   District 13
9.   District 14
10. District 17
11. Other Command:_____[Q2A_a]

BASE: COAST GUARD (Q1=5) - MANDATORY
Q2B. Are you serving on shore, sea, or air duty? Please select ONE.

1.   Shore duty
2.   Sea duty
3.   Air duty

BASE: ALL RESPONDENTS - MANDATORY
Q2C. In which type of unit do you serve? Please select ONE response only. If you are in a unit which might be classified as more than one type, which most often describes the work that you do in the unit?

[UNLESS OTHERWISE NOTED IN THIS DOCUMENT THE 'Decline to Answer' RESPONSE WAS NOT PRESENTED ON THE INITIAL SCREEN. IF NO RESPONSE WAS SELECTED, THE ITEM WAS PRESENTED A SECOND TIME BUT THIS TIME WITH A DECLINE TO ANSWER ON THE SUBSEQUENT SCREEN.]

1.   Infantry (including airborne, air assault, amphibious assault forces)
2.   Armored/Tank
3.   Artillery/Naval gun crew
4.   Combat engineer
5.   Aircraft aircrew
6.   Aircraft/Missile command and control

7.   Reconnaissance, surveillance, or target acquisition
8.   Communications, signals, or military intelligence
9.   Headquarters, command, or administrative
10. Logistics (including acquisition, supply or personnel transportation, storage, or distribution)
11. Maintenance or repair - computers or electronics
12. Maintenance or repair - vehicles
13. Maintenance or repair - ship, aircraft, missile, or space systems
14. Maintenance or repair - other
15. Food preparation or food service
16. Medical, dental, or other healthcare
17. Recruitment
18. Security, military police, maritime enforcement/rescue
19. Training/Education
20. Other type of unit not listed
21. Decline to answer

BASE: ALL RESPONDENTS - MANDATORY
Q2D. What is your Active Duty status?

1.   Regular Active Duty
2.   Reserve member serving on Active Duty
3.   National Guard member serving on Active Duty
4.   Not currently serving on Active Duty

[PRESENT Q5 AND Q6 ON SAME SCREEN] BASE:
ALL RESPONDENTS
Q5. **How long have you been on active duty? If you had a break in service, count current time and time in previous tours, but NOT time during the break in service.**

Q5A: Years:____[2 DIGITS; 0 - 65]Q5B: Months:_[2 DIGITS; 0 - 11]

BASE: ALL RESPONDENTS
Q6. **As of today**, **how many months have you been assigned to your CURRENT permanent post, base, ship, or duty station? Please include any extension of your present tour in your count. However, do NOT count previous tours at this duty station.**

1.   1 month or less
2.   2 - 3 months
3.   4 - 6 months
4.   7 - 12 months
5.   13 - 18 months
6.   19 - 24 months
7.   25 - 36 months
8.   More than 3 years

[PRESENT Q7 AND Q8 ON SAME SCREEN] BASE: ALL RESPONDENTS

Q7. How many months during the PAST 12 MONTHS have you been AWAY from your permanent duty station (berthed out of the area, not at home), not including medical or personal leave?

1. 0 months
2. Less than 1 month
3. 1 or 2 months
4. 3 or 4 months
5. 5 or 6 months
6. 7 or 8 months
7. 9 or 10 months
8. 11 or 12 months

BASE: ALL RESPONDENTS - MANDATORY
Q8. What is the ZIP code or APO or FPO number for your CURRENT post, base, ship, or other duty station where you spend most of your duty time?

_____[5 DIGITS]

BASE: ALL RESPONDENTS
Q9. All in all, how satisfied or dissatisfied are you with your current primary MOS / PS / Rating / Designator / AFSC?

1. Very satisfied
2. Satisfied
3. Dissatisfied
4. Very dissatisfied

Internet Usage

BASE: ALL RESPONDENTS
Q117. Have you ever done the following online? Please select ONE response per row.

[GRID PRESENTATION]
1. No, never
2. Yes, but more than 30 days ago
3. Yes, within PAST 30 DAYS

[RANDOMIZE A-I]
a. Made a purchase online
b. Bid on a product in an online auction
c. Participated in an online survey
d. Posted a picture or commented on a picture on Facebook
e. Logged in to a checking account online
f. Watched a video on YouTube
g. Browsed online classified ads (such as Craig's List)
h. Downloaded music (for computer, iPod, etc.)
i. Gambled for money online

Deployment

BASE: ALL RESPONDENTS
Q144. Were you actively involved in the rescue, recovery or cleanup for the following missions?

　　[GRID PRESENTATION]
　　1.　No
　　2.　Yes

　　a.　The Deep Water Horizon oil spill in the gulf
　　b.　The earthquake in Haiti

BASE: ACTIVELY INVOLVED IN EITHER DEEP WATER HORIZON OR HAITI RELIEF MISSION (Q144a-b=2)
Q145. If you were involved in the following, do you have lasting memories, such as nightmares, recurring thoughts or generalized sadness resulting from the events? Please select ONE response per row.

　　[GRID PRESENTATION]
　　1.　A lot
　　2.　Some
　　3.　A little
　　4.　None at all
　　5.　Not involved in this mission

　　a.　Deep Water Horizon oil spill mission
　　b.　Haiti earthquake mission

Sexual Orientation

BASE: ALL RESPONDENTS
Q109. Do you think of yourself as...?

　　1.　Heterosexual ('straight')
　　2.　Gay or Lesbian
　　3.　Transgender
　　4.　Bisexual
　　5.　Something else
　　6.　Not at all sure

BASE: ALL RESPONDENTS
Q110. People are different in their sexual attraction to other people. Which best describes your feelings?

　　1.　Only attracted to males
　　2.　Mostly attracted to males
　　3.　Equally attracted to males and females
　　4.　Mostly attracted to females
　　5.　Only attracted to females

6. Not attracted to either males or females
7. Not sure

4.0 Appendix B: Demographic Analysis

The tables below display unweighted frequencies and distributions of demographic attributes overall and by Reserve Component. The purpose of this information is to equip future researchers with unweighted responses in order to plan for sampling and weighting.

Notes: All questions were optional, so frequencies for individual questions may not sum to the total frequency who submitted a useable survey. Questions deemed particularly important were displayed to respondents twice if they attempted to skip the question; the second time the question was presented, an option of "Decline to answer" was presented. That response option is included in the tables below, where applicable.

Q1. In which component of the Military do you currently serve?

	Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
	100.0%, 18359	19.4%, 3558	19.4%, 3559	16.0%, 2936	22.3%, 4086	20.4%, 3738	2.6%, 482

Q2. What is your membership category in the Reserve Component?

	Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
Drilling unit Reservist/ Traditional Guardsman	61.5%, 11298	41.3%, 1468	61.5%, 2190	82.0%, 2408	57.6%, 2354	69.6%, 2601	57.5%, 277
Individual Mobilization Augmentee (IMA)	5.6%, 1034	0.5%, 17	5.3%, 187	2.1%, 63	0.2%, 7	17.5%, 656	21.6%, 104
Active Guard/Reserve Program (AGR/FTS/AR)	29.2%, 5368	49.1%, 1746	33.2%, 1181	15.2%, 445	34.6%, 1415	12.8%, 480	21.0%, 101
Full-time National Guard Duty	3.6%, 656	9.2%, 327	0.0%, 1	0.6%, 18	7.6%, 310	--	--
Decline to answer	0.0%, 3	--	--	0.1%, 2	--	0.0%, 1	--

Q3. What is your current pay grade?

	Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
E1-E3	2.9%, 534	0.8%, 29	1.3%, 48	1.4%, 42	6.3%, 258	2.3%, 87	14.5%, 70
E4-E6	19.3%, 3546	10.5%, 373	10.8%, 384	19.1%, 560	29.1%, 1187	24.9%, 930	23.2%, 112
E7-E9	29.9%, 5497	30.7%, 1093	29.4%, 1046	20.2%, 593	35.3%, 1441	32.9%, 1230	19.5%, 94
WO1-WO5	5.1%, 943	16.7%, 594	8.9%, 318	0.4%, 13	0.0%, 1	--	3.5%, 17
O1-O3	13.1%, 2407	15.1%, 537	18.5%, 660	16.9%, 495	8.6%, 351	8.2%, 307	11.8%, 57
O4-O10	29.6%, 5432	26.2%, 932	31.0%, 1103	42%, 1233	20.8%, 848	31.7%, 1184	27.4%, 132

Q4. Are you…?

	Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
Male	64.6%, 11855	67%.0, 2384	60.9%, 2167	71.9%, 2111	61.3%, 2505	60.4%, 2259	89.0%, 429
Female	35.4%, 6504	33.0%, 1174	39.1%, 1392	28.1%, 825	38.7%, 1581	39.6%, 1479	11.0%, 53

Q5. Are you currently - .? Fill in one response for each line

		Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
Drilling unit Reservist/ Traditional Guardsman (i.e., drilling weekends not currently activated, Annual Training only)	Yes	63.4%, 10904	45.6%, 1496	45.6%, 1496	64.4%, 2157	79.0%, 2234	58.1%, 2202	71.7%, 2511
	No	36.6%, 6302	54.4%, 1788	54.4%, 1788	35.6%, 1190	21.0%, 594	41.9%, 1585	28.3%, 990
	Decline to answer	--	--	--	--	--	--	--

		Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
Working full-time in the Active Guard/Reserve Program or Full-time National Guard Duty	Yes	37.4%, 6408	61.8%, 2100	35.4%, 1185	20.2%, 553	47.4%, 1818	19.0%, 643	24.4%, 109
	No	62.6%, 10745	38.2%, 1300	64.6%, 2166	79.8%, 2186	52.6%, 2017	81.0%, 2739	75.6%, 337
	Decline to answer	--	--	--	--	--	--	--
Working full-time in a civilian job	Yes	51.8%, 8965	35.0%, 1160	51.5%, 1723	67.3%, 1912	44.0%, 1671	63.3%, 2244	55.0%, 255
	No	48.2%, 8342	65.0%, 2154	48.5%, 1624	32.7%, 927	56.0%, 2129	36.7%, 1299	45.0%, 209
	Decline to answer	--	--	--	--	--	--	--
Working part-time in a civilian job	Yes	9.4%, '1564	6.7%, 213	8.9%, 289	8.6%, 234	10.5%, 384	11.6%, 389	12.6%, 55
	No	90.6%, 15015	93.3%, 2979	91.1%, 2943	91.4%, 2475	89.5%, 3278	88.4%, 2959	87.4%, 381
	Decline to answer	--	--	--	--	--	--	--
Working as self-employed in own business or profession	Yes	8.8%, 1459	6.4%, 207	8.1%, 263	9.7%, 265	9.1%, 334	10.6%, 356	7.7%, 34
	No	91.2%, 15191	93.6%, 3005	91.9%, 2994	90.3%, 2454	90.9%, 3337	89.3%, 2993	92.3%, 408
	Decline to answer	0.0%, 1	--	--	--	--	0.0%, 1	--
Unpaid worker (volunteer)	Yes	8.8%, 1451	6.4%, 206	8.4%, 270	9.8%, 265	8.7%, 318	10.4%, 344	11.0%, 48
	No	91.2%, 15080	93.6%, 2996	91.6%, 2961	90.2%, 2435	91.3%, 3324	89.6%, 2976	89.0%, 388
	Decline to answer	--	--	--	--	--	--	--
In school	Yes	21.2%, 3547	19.1%, 618	21.3%, 694	18.5%, 504	22.3%, 824	22.9%, 773	29.9%, 134
	No	78.8%, 13168	80.9%, 2611	78.7%, 2562	81.5%, 2218	77.7%, 2866	77.1%, 2597	70.1%, 314
	Decline to answer	--	--	--	--	--	--	--
	Yes	10.6%, 1766	7.8%, 251	10.3%, 335	10.0%, 270	10.3%, 381	14.9%, 499	6.8%, 30

		Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
A homemaker, housewife, househusband	No	89.4%, 14872	92.2%, 2954	89.7%, 2905	90.0%, 2443	89.7%, 3301	85.1%, 2857	93.2%, 412
	Decline to answer	--	--	--	--	--	--	--
Working multiple jobs	Yes	20.2%, 3381	15.4%, 495	19.6%, 639	21.4%, 585	20.4%, 753	24.8%, 836	16.6%, 73
	No	79.8%, 13333	84.6%, 2727	80.4%, 2625	78.6%, 2147	79.6%, 2934	75.2%, 2532	83.4%, 368
	Decline to answer	--	--	--	--	--	--	--
Working temporary job(s)	Yes	5.7%, 950	4.6%, 149	4.8%, 156	4.6%, 124	7.4%, 269	6.5%, 217	7.9%, 35
	No	94.3%, 15591	95.4%, 3058	95.2%, 3071	95.4%, 2574	92.6%, 3379	93.5%, 3103	92.1%, 406
	Decline to answer	--	--	--	--	--	--	--
Unemployed	Yes	7.3%, 1205	4.3%, 136	9.2%, 296	8.1%, 217	5.1%, 186	9.9%, 326	10.0%, 44
	No	92.7%, 15286	95.7%, 3050	90.8%, 2937	91.9%, 2476	94.9%, 3446	90.1%, 2981	90.0%, 396
	Decline to answer	--	--	--	--	--	--	--

Q6. What was your annual household income from ALL sources last year? Your annual household income includes your salary as well as that of your spouse or significant other if you reside together. Please estimate your annual household income before taxes were taken out.

	Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
Less than $15,000	2.7%, 495	1.6%, 56	2.6%, 91	2.2%, 66	3.0%, 121	3.3%, 123	7.9%, 38
$15,000 to $19,999	1.9%, 341	0.8%, 30	1.8%, 65	1.8%, 52	2.2%, 90	2.2%, 81	4.8%, 23
$20,000 to $24,999	2.2%, 407	1.1%, 39	1.9%, 68	1.6%, 48	2.9%, 120	2.8%, 103	6.0%, 29
$25,000 to $34,999	3.9%, 712	2.8%, 99	3.9%, 139	3.4%, 99	4.1%, 168	4.7%, 177	6.2%, 30

	Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
$35,000 to $44,999	5.3%, 969	4.6%, 165	5.9%, 209	4.4%, 129	5.7%, 234	5%, 186	9.5%, 46
$45,000 to $49,999	5.0%, 927	4.8%, 170	6.0%, 215	3.7%, 109	6.2%, 254	4.3%, 162	3.5%, 17
$50,000 to $74,999	20.7%, 3795	23.2%, 825	23.7%, 845	15.3%, 449	21.6%, 884	19.2%, 717	15.6%, 75
$75,000 or more	58%, 10642	60.8%, 2163	53.8%, 1915	67.3%, 1975	53.7%, 2194	58.1%, 2171	46.5%, 224
Decline to answer	0.4%, 69	0.3%, 11	0.3%, 12	0.3%, 8	0.5%, 21	0.5%, 17	7.9%, 38

Q7. As of today, how many months have you been assigned to your present drill or duty station? (Include any extension of your present tour. Do not count previous tours at this duty station.)

	Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
1 month or less	2.5%, 460	2.4%, 86	3.4%, 121	3.1%, 90	1.4%, 56	2.5%, 94	2.7%, 13
2-3 months	5.2%, 956	6.0%, 214	7.3%, 260	7.7%, 226	2.3%, 92	3.5%, 132	6.6%, 32
4-6 months	7.4%, 1347	8.1%, 287	12.4%, 440	7.1%, 208	3.9%, 157	5.5%, 205	10.4%, 50
7-12 months	11.1%, 2028	12.6%, 448	13.8%, 489	15.7%, 459	5.9%, 239	8.6%, 321	14.9%, 72
13-18 months	10.6%, 1935	11.7%, 413	13.5%, 478	14.2%, 414	6.2%, 252	8.0%, 297	16.8%, 81
19-24 months	9.0%, 1648	9.8%, 348	9.6%, 341	13.7%, 401	5.7%, 232	7.7%, 287	8.1%, 39
25-36 months	13.2%, 2417	13.8%, 489	15.9%, 564	15.4%, 451	9.3%, 378	12.2%, 455	16.6%, 80
More than 3 years	41.0%, 7492	35.5%, 1260	23.9%, 847	23.0%, 672	65.5%, 2664	51.9%, 1934	23.9%, 115

Q8. In all, how many years have you served in the National Guard or Reserves?

	Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
Less than 6 months	1.0%, 186	0.6%, 20	1.4%, 51	1.2%, 34	0.6%, 24	1.2%, 43	2.9%, 14
At least 6 months, but less than 1 year	2.1%, 378	0.7%, 24	1.9%, 67	2.7%, 79	1.6%, 64	3.3%, 124	4.1%, 20
At least 1 year, but less than 2 years	4.1%, 752	1.5%, 55	2.6%, 93	4.8%, 142	5.0%, 202	5.7%, 212	10.0%, 48
At least 2 years, but less than 3 years	4.0%, 725	1.5%, 55	2.4%, 87	5.5%, 162	4.6%, 188	5.4%, 201	6.6%, 32
At least 3 years, but less than 4 years	3.5%, 650	2.0%, 70	2.5%, 88	5.1%, 148	3.4%, 140	4.5%, 168	7.5%, 36
At least 4 years, but less than 5 years	3.4%, 623	1.7%, 60	2.7%, 96	4.6%, 134	2.8%, 115	4.8%, 181	7.7%, 37
At least 5 years, but less than 10 years	14.8%, 2713	12.0%, 425	12.0%, 426	15.2%, 445	16.0%, 653	18.0%, 673	18.9%, 91
At least 10 years, but less than 20 years	35.0%, 6421	35.1%, 1247	33.4%, 1186	38.4%, 1124	37.0%, 1508	33.4%, 1245	23.0%, 111
20 or more years	32.1%, 5877	44.9%, 1593	41.1%, 1461	22.6%, 661	29.0%, 1183	23.7%, 886	19.3%, 93

Q9. In the past 12 months, what is the total number of days you spent performing your military duty in the National Guard or Reserves in an authorized duty status? Do not include days spent in annual training or drills.

	Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
Less than 21 days	25.2%, 4602	14.3%, 507	24.1%, 853	34.3%, 1003	22.6%, 922	31.2%, 1163	32.2%, 154
At least 21 days, but less than 28 days	6.9%, 1263	4.4%, 156	7.4%, 263	8.8%, 256	6.5%, 264	8.0%, 300	5.0%, 24
At least 28 days, but less than 35 days	5.8%, 1068	4.1%, 145	6.4%, 226	6.2%, 181	5.7%, 231	6.6%, 248	7.7%, 37
At least 35 days, but less than 60 days	10.8%, 1981	7.3%, 259	10.9%, 385	14.5%, 423	8.9%, 361	13.0%, 484	14.4%, 69
At least 60 days, but less than 90 days	6.4%, 1173	4.7%, 165	6.6%, 234	7.3%, 214	5.9%, 240	7.7%, 289	6.5%, 31
More than 90 days	44.8%, 8200	65.2%, 2313	44.5%, 1573	29.0%, 847	50.5%, 2057	33.4%, 1246	34.2%, 164

Q12. What is your highest level of education?

	Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
I did not graduate from high school	0.0%, 9	0.5%, 19	0.0%, 1.0	0.2%, 5	0.0%, 2	0.0%, 1	--
GED or ABE certificate	0.3%, 61	2.5%, 90	0.5%, 18.0	0.3%, 9	0.3%, 12	0.1%, 3	--
High school diploma	3.2%, 583	1.4%, 48	3.1%, 111	2.7%, 80	4.0%, 164	2.5%, 95	8.9%, 43
Trade or technical school graduate	1.6%, 299	19.8%, 703	1.2%, 42	1.4%, 41	2.4%, 98	1.6%, 59	2.3%, 11
Some college but not a 2- or 4-year degree	16.4%, 2999	11.2%, 399	13.2%, 469	10.5%, 308	20.6%, 839	14.8%, 552	26.6%, 128
2-year college degree (AA or equivalent)	12.0%, 2204	26.4%, 936	10.4%, 369	8.3%, 243	15.2%, 619	14.5%, 542	6.6%, 32
4-year college degree (BA, BS, or equivalent)	24.0%, 4394	10.5%, 374	25.5%, 908	21.8%, 638	25.7%, 1049	20.1%, 748	23.9%, 115
Graduate or professional study but no graduate degree	9.9%, 1810	27.6%, 981	10.6%, 378	11.3%, 331	8.6%, 352	8.5%, 316	12.2%, 59
Graduate or professional degree	32.5%, 5954	0.5%, 19	35.4%, 1258	43.4%, 1267	23.1%, 942	37.9%, 1412	19.5%, 94

Variable comprised of: Q13. Are you Hispanic or Latino? And Q14. What is your race? Please select ONE OR MORE responses that best characterize you.

	Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
Hispanic	10.9%, 1985	9.5%, 337	14.9%, 523	9.0%, 261	8.6%, 347	12.0%, 441	15.9%, 76
Asian	3.0%, 554	1.9%, 67	3.4%, 119	5.0%, 144	2.3%, 92	3.1%, 113	4.0%, 19
Black	10.8%, 1965	9.7%, 343	20.2%, 712	8.5%, 248	6.4%, 260	10.0%, 369	6.9%, 33
White	69.8%, 12675	74.5%, 2632	56.3%, 1982	72.4%, 2107	76.7%, 3097	68.7%, 2532	68.0%, 325
Other	1.5%, 276	1.4%, 51	1.6%, 55	1.5%, 43	1.7%, 70	1.4%, 53	0.8%, 4
2 or more races	3.9%, 710	2.9%, 103	3.7%, 129	3.6%, 106	4.2%, 171	4.9%, 180	4.4%, 21

Q15. How old are you?

	Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
24 or younger	4.2%, 776	2.3%, 82	3.2%, 113	2.2%, 64	6.7%, 274	4.2%, 156	18.1%, 87
25-34	19.1%, 3481	17.1%, 607	14.7%, 518	16.2%, 473	22.4%, 909	22.1%, 821	31.9%, 153
35-44	34.3%, 6262	33.7%, 1196	29.9%, 1055	38.6%, 1128	34.9%, 1420	35.2%, 1307	32.5%, 156
45 or older	42.4%, 7748	46.9%, 1665	52.3%, 1847	43.1%, 1260	36.0%, 1463	38.5%, 1429	17.5%, 84

Q18. Are you currently married?

	Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
No	29.3%, 5371	26.8%, 952	31.2%, 1111	25.6%, 751	30.6%, 1252	30.5%, 1139	34.4%, 166
Yes	70.7%, 12973	73.2%, 2604	68.6%, 2443	74.4%, 2183	69.3%, 2831	69.4%, 2596	65.6%, 316
Decline to answer	0.1%, 14	0.1%, 2	0.1%, 5	0.1%, 2	0.0%, 2	0.1%, 3	--

Variable comprised of: Q28. Do you have any children under age 18 living with you? And Q29. How many children under age 18 live with you?

	Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
1 child	16.6%, 2656	18.0%, 558	16.3%, 503	15.6%, 402	17%, 608	16.4%, 527	13.7%, 58
2 children	18.2%, 2898	17.8%, 552	14.7%, 455	21.0%, 540	19.2%, 687	18.6%, 596	16.1%, 68
3 children or more	10.7%, 1716	11.0%, 340	8.4%, 259	11.7%, 302	11.5%, 413	11.0%, 352	11.8%, 50

	Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
None	54.5%, 8696	53.2%, 1645	60.6%, 1874	51.6%, 1327	52.3%, 1871	54%, 1733	58.3%, 246

Q179. Are you taking this survey on…

	Total Reserve Component %, N	Army National Guard %, N	Army Reserves %, N	Navy Reserves %, N	Air National Guard %, N	Air Force Reserves %, N	Marine Corps Reserves %, N
A personal computer	17.1%, 2587	16.2%, 498	27.5%, 832	31.1%, 775	3.3%, 101	8.6%, 268	29.1%, 113
A work (non-military related) computer	14.0%, 2115	16.1%, 497	16.7%, 505	18.6%, 464	9.2%, 281	9.7%, 303	16.8%, 65
A computer on base	64.8%, 9809	62.2%, 1915	47.9%, 1447	48.3%, 1203	86.2%, 2627	78.2%, 2437	46.4%, 180
Other	4.2%, 630	5.5%, 170	7.8%, 236	1.9%, 47	1.2%, 38	3.5%, 109	7.7%, 30

5.0 Appendix C: Key Definitions and Measures

Below are definitions of measures used in the 2014 HRB RC reports and the HRB survey questions used to calculate each measure.

5.1   Alcohol Use

Drinking Level Classifications

The coding for drinking level classifications is based on the definitions established in the 2010 NHIS. Drinking levels are based on self-reports of the average frequency of alcohol consumption during the past year and the number of drinks the respondent consumed on the days he or she used alcohol. To determine current drinking levels, the number of days the respondent drank is used to calculate the average number of drinks per week, as follows: [(# days per year)(# drinks per year)/365 days].

- An 'Abstainer' is defined as having less than 12 alcoholic drinks in their entire lifetime.
- A 'Former Drinker' is defined as having at least 12 drinks in their lifetime and reported 0 days of drinking in the past 12 months.
- A 'Current Drinker' is defined as having at least 12 drinks in their lifetime and reported 1 or more days of drinking in the past 12 months. Current drinkers are categorized into three levels of drinking intensity.
- An 'Infrequent/Light Drinker' is defined as having less than 4 drinks per week in the past year.
- A 'Moderate Drinker' is defined as having 4 to 14 drinks per week for males, and 4 to 7 drinks per week for females in the past year.
- A 'Heavy Drinker' is defined as having more than 14 drinks per week for males, and more than 7 drinks per week for females in the past year.

The following questions were used to calculate the above classifications.

- **Q45**: Have you had at least 12 alcoholic drinks over your ENTIRE LIFE? Yes/no/decline to answer
- **Q47**: In the PAST 12 MONTHS (365 days), on how many different DAYS would you estimate that you drank any type of alcoholic beverage? Your best guess is fine. 0-365 days
- **Q48.** In the PAST 12 MONTHS, on those days that you drank alcoholic beverages, on the average, how many drinks did you have? Average number of DRINKS you drank per day when you did drink:_____[2 DIGITS; 0 - 50]
- **Q4**: Are you…? Male/female

For those who were missing data on Q45 and Q47, Q55 and Q56 were used to calculate frequency and quantity of alcohol consumption in the past year.

- **Q55**: How often do you typically have a drink containing alcohol? Never/less than once a month/once a month/two to three times a month/once a week/two to three times a week/four or more times a week
- **Q56**: How many drinks containing alcohol do you have on a TYPICAL DAY when you are drinking? I don't drink/1 or 2/3 or 4/5 or 6/7 to 9/10 or more

Binge Drinking

The coding for binge drinking is based on the definitions established by NSDUH. Binge drinking is defined as having five or more drinks for males and four or more drinks for females on the same occasion at least once in the past 30 days.

The following question were used to define a binge drinker:

- **Q59:** During the PAST 30 DAYS, what was the largest number of drinks of any form of alcohol you had on one occasion?

AUDIT (Alcohol Use Disorders Identification Test)

The AUDIT (Alcohol Use Disorders Identification Test) scale sum score was calculated to determine the potential for alcohol dependence across military components. The scale uses 10 items, which are recoded based on the AUDIT scale scoring guide developed by the World Health Organization (WHO). Each of the questions has a set of responses to choose from, and each response has a score ranging from 0 to 4. The higher the score, the more risk is indicated. Total scores of 8 or more are recommended as indicators of hazardous and harmful alcohol use, as well as possible alcohol dependence. The response categories reported for this composite score are:

- Range 0-40
- Low Risk (AUDIT score < 8) – Indicates a low risk of alcohol dependence.
- Hazardous Drinking (AUDIT score 8-15) – Indicates a pattern of alcohol consumption that increases the risk of harmful consequences for the user or others.
- Harmful Drinking (AUDIT score 16-19) – Refers to alcohol consumption that results in consequences to physical and mental health, and possibly social life.
- Possible Alcohol Dependence (AUDIT score of 20+) – Is a cluster of behavioral, cognitive, and physiological phenomena that may develop after repeated alcohol use. This phenomena can include a strong desire to consume alcohol, impaired control over its use, persistent drinking despite harmful consequences, and increased alcohol tolerance.

In order to calculate this, the AUDIT categorical indicator was computed to classify the risk levels of drinking across the military. The categories and cut-scores corresponding to each category are based on scoring guidelines developed by the WHO.

In the HRB survey, the following questions were used to calculate the above classifications.

- **Q55**: How often do you typically have a drink containing alcohol? Never/less than once a month/once a month/two or three times a month/once a week/two to three times a week/four or more times a week
- **Q56**: How many drinks containing alcohol do you have on a TYPICAL DAY when you are drinking? I don't drink/1 or 2/3 or 4/5 or 6/7 to 9/10 or more
- **Q57:** Please indicate how often you do the following. Never/Less than monthly/monthly/weekly/daily or almost daily
  - o **A**: How often do you have six or more drinks on one occasion?
  - o **B**: How often during the past year have you found that you were not able to stop drinking once you had started?
  - o **C**: How often during the past year have you failed to do what was normally expected of you because of drinking?
  - o **D**: How often during the past year have you needed a first drink in the morning to get yourself going after a heavy drinking session?
  - o **E**: How often during the past year have you had a feeling of guilt or remorse after drinking?
  - o **F**: How often during the past year have you been unable to remember what happened the night before because you have been drinking?

- **Q58:** For each question below, have you EVER experienced the following because of drinking? No/Yes, but not in the past year/yes, during the past year
    - **A**: Have you or someone else been injured as a result of your drinking?
    - **B**: Has a relative or friend or a doctor or other health worker been concerned about your drinking or suggested you cut down?

Unhealthy Drinking

To summarize and describe Reservists with the highest risk of drinking behavior based on the classification systems used in the HRB survey, a measure was to identify individuals who were classified in at least one of the following excessive categories (based on their respective classifications described above):

- being classified as a heavy drinker
- being classified as a high-frequency binge drinker (defined as someone who engages in binge drinking at least once per week, on average)
- being identified as a higher risk drinker according to AUDIT score (defined as an AUDIT score greater than or equal to 8). We have characterized these individuals as unhealthy drinkers to represent their increased risk for negative health and social consequences.

Work Related Productivity Loss in the Past 12 Months

The survey contains 11 items related to the frequency of alcohol-related work productivity loss in the past 12 months. Response options for Q52 and Q53 are on a 4-point scale, ranging from "0 times" to "3 or more times." Response options for Q54 are on a slightly different 4-point scale, ranging from "0 work days" to "3 or more work days." The response categories reported for this composite score are:

- Yes, 1 or more items at least once in the past 12 months/No
- Yes, 2 or more items at least once in the past 12 months/No

In order to calculate this, response options were first recoded into a dichotomous variable to represent whether alcohol-related work productivity loss had occurred or had not occurred at least once in the past 12 months. We then summed and recoded the 11 items into a dichotomous variable for at least 1 event that occurred 1 or more times, and created another dichotomous variable for at least 2 different events that occurred 1 or more times in the past 12 months.

In the HRB survey, the following questions were used to calculate the above classifications.

- **Q52:** How many times in the PAST 12 MONTHS did each of the following happen to you? 3 or more times/2 times/1 time/0 times
    - **C**: I was arrested for a drinking incident not related to driving.
    - **F**: I got a lower score on my efficiency report or performance rating because of my drinking.
    - **G**: I hit my spouse/significant other after having too much to drink.
    - **H**: I got into a fight where I hit someone other than a member of my family when I was drinking.
    - **Q53:** How many times in the PAST 12 MONTHS did each of the following happen to you? 3 or more times/2 times/1 time/0 times
    - **I**: I had an illness connected with my drinking that kept me from duty for a week or longer.
- **Q54:** On how many work days (including both civilian and military) in the PAST 12 MONTHS did the following things happen to you? 3 or more work days/2 work days/1 work day/0 work days

- o **A**: I was hurt in an on-the-job accident because of my drinking.
- o **B**: I was late for work or left work early because of drinking, a hangover, or an illness caused by drinking.
- o **C**: I did not come to work at all because of a hangover, an illness, or a personal accident caused by drinking.
- o **D**: I worked below my normal level of performance because of drinking, a hangover, or an illness caused by drinking.
- o **E**: I was drunk while working.
- o **F**: I was called in during off-duty hours and reported to work feeling drunk.

Serious Consequences Related to Alcohol Use in the Past 12 Months

There are 15 items in the survey related to the frequency of serious consequences associated with alcohol use in the past 12 months. Response options are on a 4-point scale, ranging from "0 times" to "3 or more times." The response categories reported for this composite score are:
- Yes, 1 or more items at least once in the past 12 months/No
- Yes, 2 or more items at least once in the past 12 months/No

In order to calculate this, we first recoded response options into a dichotomous variable to represent whether a serious consequence had occurred or had not occurred in the past 12 months. We then summed and recoded the 15 items into a dichotomous variable for at least 1 event that occurred 1 or more times, and created another dichotomous variable for at least 2 different events that occurred 1 or more times in the past 12 months.

The questions used in this calculation were:
- **Q52:** How many times in the PAST 12 MONTHS did each of the following happen to you? 3 or more times/2 times/1 time/0 times
  - o **A**: I found it harder to handle my problems because of my drinking.
  - o **B**: I received UCMJ punishment (e.g., Court Martial, Article 15, Captain's Mast, Office Hours, Letter of Reprimand, etc.) because of my drinking.
  - o **D**: I had trouble on the job because of my drinking. 3 or more times/2 times/1 time/0 times
  - o **E**: I didn't get promoted because of my drinking.
  - o **I**: My spouse or live-in fiancé/boyfriend/girlfriend threatened to leave me or left me because of my drinking.
  - o **J**: My spouse or live-in fiancé/boyfriend/girlfriend asked me to leave because of my drinking.
  - o **K**: I did something sexually that I regretted.
  - o **L**: I had trouble with the police (civilian or military) because of my drinking.
  - o **M**: I spent time in jail, stockade, or brig because of my drinking.
- **Q53:** How many times in the PAST 12 MONTHS did each of the following happen to you? 3 or more times/2 times/1 time/0 times
  - o **C**: I was arrested for driving under the influence of alcohol.
  - o **F**: I was hurt in an accident because of my drinking (e.g., vehicle, work, other).
  - o **G**: My drinking caused an accident where someone else was hurt or property was damaged.
  - o **H**: I received detoxification treatment in a hospital or residential center because of my drinking.

- o **J**: I had to have emergency medical help because of my drinking.
- o **K**: I was hospitalized because of my drinking.

Risk Behaviors Related to Alcohol Use in the Past 12 Months

The survey contains 4 items related to the frequency of alcohol-related risk behaviors in the past 12 months. Response options are on a 4-point scale, ranging from "0 times" to "3 or more times." The response categories reported for this composite score are:

- Yes, 1 or more items at least once in the past 12 months/No
- Yes, 2 or more items at least once in the past 12 months/No

In order to calculate this, we first recoded response options into a dichotomous variable to represent whether a risk behavior had occurred or had not occurred in the past 12 months. We then summed and recoded the 4 items into a dichotomous variable for at least 1 event that occurred 1 or more times, and created another dichotomous variable for at least 2 different events that occurred 1 or more times in the past 12 months.

In the HRB survey, the following questions were used to calculate the above classifications.

- **Q53:** How many times in the PAST 12 MONTHS did each of the following happen to you? 3 or more times/2 times/1 time/0 times
  - o **A**: I operated power tools or machinery when I had too much to drink.
  - o **B**: I drove a car or other vehicle when I had too much to drink.
  - o **D**: I rode in a car or other vehicle driven by someone who had too much to drink.
  - o **E**: I drove or rode in a boat, canoe, or other watercraft when I had too much to drink.

Drinking Facilitators

There are 10 items in the survey related to facilitators of alcohol use, such as fitting in with people, drinking to be sociable, and peer pressure. Response options for Q63 are on a 4-point scale, ranging from "Not at all important" to "Very important." Response options for Q64 are on a slightly different 4-point scale, ranging from "Strongly disagree" to "Strongly agree." The response categories reported for this composite score are:

- Important
- Agree

In order to calculate this, we combined the top two response choices to indicate importance ("Very important" and "Somewhat important") for Q63, and to indicate agreement ("Strongly agree" and "Agree") for Q64.

In the HRB survey, the following questions were used to calculate the above classifications.

- **Q63:** How important is each reason TO YOU for drinking alcohol? Very important/somewhat important/not very important/not at all important
  - o **A**: As a way to celebrate.
  - o **B**: To be sociable.
  - o **C**: To fit in with people you like.
  - o **D**: To forget about your problems.
  - o **E**: To cheer up when you're in a bad mood.
  - o **F**: Because your friends pressure you to drink.
  - o **G**: So that others won't kid/tease you about not drinking.

- o **H**: I like to drink/I enjoy drinking.
- o **Q64:** For the following statements, how much do you agree or disagree with each? Strongly agree/agree/disagree/strongly disagree/don't know
- o **B**: Drinking to the point of losing control is acceptable.
- o **D**: Drinking is part of being in my unit.

Drinking Deterrents

The survey contains 6 items related to deterrents to alcohol use, such as upsetting friends and family and getting in trouble with the authorities. Response options for Q64 are on a 4-point scale, ranging from "Strongly disagree" to "Strongly agree." Response options for Q65 are on a slightly different 4-point scale, ranging from "Not at all likely" to "Extremely likely." The response categories reported for this composite score are:

- Agree
- Likely

In order to calculate this, we combined the top two response choices for Q64 to indicate agreement ("Strongly agree" and "Agree") and for Q65 to indicate likelihood ("Extremely likely" and "Very likely").

In the HRB survey, the following questions were used to calculate the above classifications.

- **Q64:** For the following statements, how much do you agree or disagree with each? Strongly agree/agree/disagree/strongly disagree/don't know
  - o **A**: Alcoholic beverages cost too much for me.
  - o **C**: Alcoholic beverages are difficult for me to get.
- **Q65:** How likely are you to experience the following if you were to drink alcohol? Extremely likely/very likely/somewhat likely/not at all likely
  - o **A**: Upsetting my family/friends.
  - o **B**: Affecting my military career negatively.
  - o **C**: Doing things that I'd be sorry for later.
  - o **D**: Getting in trouble with the police or military authorities.

5.2　Tobacco Use

Cigarette Smoking Classifications

The coding for cigarette smoking classification levels is based on the definitions established in the 2010 NHIS. The response categories reported for this composite score are:

An 'Abstainer' is defined as smoking less than 100 cigarettes in their lifetime.

A 'Former' smoker is defined as smoking at least 100 cigarettes in their lifetime, but does not currently smoke cigarettes now.

A current smoker is defined by the criteria described above for "current cigarette smoker," and then split into three categories of smoking intensity.

An 'Infrequent' smoker reports smoking cigarettes "Some days."

A 'Light/Moderate' smoker reports smoking cigarettes "Every day" and on average, currently smokes less than 20 cigarettes (less than one pack) per day.

A 'Heavy' smoker reports smoking "Every day" and currently smokes 20 or more cigarettes per day (1 pack or more) on average.

The following questions were used to calculate the above classifications.

- **Q70:** Have you smoked at least 100 cigarettes in your entire life? No/Yes

- **Q73:** Do you NOW smoke cigarettes every day, some days or not at all? Every day/Some days/Not at all
- **Q75:** On the average, how many cigarettes do you now smoke a day? 0-99

Smokeless Tobacco Classifications
The coding for smokeless tobacco classification levels will use two items. The response categories reported for this composite score are:
- An 'Abstainer' is defined as no lifetime use of chewing tobacco, snuff, or any other form of smokeless tobacco.
- A 'Former' smokeless tobacco user reports use of smokeless tobacco products in their lifetime, but has not use in the past 12 months.
- An 'Infrequent' user reports use of smokeless tobacco products "about once a month" or less in the past year. Respondents classified as using smokeless tobacco
- 'Some days' report using more than once a month, but not on a daily basis in the past year.
- 'Every day' reports smokeless tobacco use on a daily basis in the past 12 months.

The following questions were used to calculate the above classifications.
- Q81: Have you EVER used chewing tobacco, snuff, or any other form of smokeless tobacco? No/Yes
- Q82: During the PAST 12 MONTHS, how often on the average have you used chewing tobacco, snuff, or other smokeless tobacco? About every day/5 - 6 days a week/3 - 4 days a week/1 - 2 days a week/2 - 3 days a month/About once a month/Less than once a month/I have not used chewing tobacco, snuff, or other smokeless tobacco in the past 12 months

Current Smokeless Tobacco Classification
The coding for current smokeless tobacco classification levels will use two items. A "Current" smokeless tobacco user reports use of smokeless tobacco products in their lifetime and using about once a month or more within the past year. The response categories reported for this composite score are:
- Yes, current smokeless tobacco user
- No

The following questions were used to calculate the above classifications.
- Q81: Have you EVER used chewing tobacco, snuff, or any other form of smokeless tobacco? No/Yes
- Q82: During the PAST 12 MONTHS, how often on the average have you used chewing tobacco, snuff, or other smokeless tobacco? About every day/5 - 6 days a week/3 - 4 days a week/1 - 2 days a week/2 - 3 days a month/About once a month/Less than once a month/I have not used chewing tobacco, snuff, or other smokeless tobacco in the past 12 months

Smokeless Tobacco Use in the Past 30 Days
The coding for smokeless tobacco use in the past 30 days will use two items. This measure is used to compare Total Reserve Component prevalence to the Healthy People 2020 objectives. The response categories reported for this composite score are:
- Yes, used within the past 30 days
- No

The following questions were used to calculate the above classifications.
- Q81: Have you EVER used chewing tobacco, snuff, or any other form of smokeless tobacco? No/Yes

- Q84: When was the last time you used chewing tobacco, snuff, or other smokeless tobacco? Today/During the past 30 days/More than 1 month ago but within the past 6 months/More than 6 months ago but within the past year/More than 1 year ago but within the past 2 years/More than 2 years ago

Any Nicotine Use

The coding for any nicotine use uses six items. The response categories reported for this composite score are:

- Yes, nicotine use in past 12 months
- No

The following questions are used to calculate the above classifications.

- **Q70:** Have you smoked at least 100 cigarettes in your entire life? Note: Smoking at least 100 cigarettes would be equal to 5 or more packs in your entire life. No/Yes
- **Q72:** When was the last time you smoked a cigarette? Today/During the past 30 days/1 - 3 months ago/4 - 6 months ago/7 - 12 months ago/1 - 3 years ago/More than 3 years ago
- **Q81:** Have you EVER used chewing tobacco, snuff, or any other form of smokeless tobacco? No/Yes
- **Q84:** When was the last time you used chewing tobacco, snuff, or other smokeless tobacco? Today/During the past 30 days/More than 1 month ago but within the past 6 months/More than 6 months ago but within the past year/More than 1 year ago but within the past 2 years/More than 2 years ago
- **Q87:** During the PAST 12 MONTHS, how often have you smoked the following? About every day/5-6 days a week/3-4 days a week/1-2 days a week/About once a month/Less than once a month/Not in the past 12 months/I never smoked
  - **A:** Cigars
  - **B:** Pipes (including a hookah pipe)
- **Q88:** When was the last time you used any of the following smokeless tobacco products? In the past 12 months/more than 12 months ago/never
  - **A:** Electronic or smoking nicotine delivery products (e.g., E-pipe, E-cigar, E-cigarette, smokeless cigarettes, etc.)
  - **B:** Nicotine dissolvables (e.g., orbs, dissolvable sticks, dissolvable strips, etc.)
  - **C:** Caffeinated smokeless tobacco (e.g., caffeinated snuff or dip)
  - **D:** Nicotine gel

5.3   Substance Use

Overall Illicit Drug Use

Illicit drug use is measured by the prevalence of nonmedical use of any of the following drugs: marijuana or hashish, synthetic cannabis, cocaine, LSD, PCP, MDMA, other hallucinogens, methamphetamine, heroin, GHB/GBL, inhalants, and prescription drugs. The coding for illicit drug use is based on items derived from the 2010 National Survey on Drug Use and Health (NSDUH) sponsored by the Substance Abuse and Mental Health Services Administration (SAMSHA). The response categories reported for this composite score are:

- A "Lifetime" user is defined as having used any illicit drug more than 12 months ago.
- A "past 12 month" user is defined as having used an illicit drug more than 12 months ago.

- A "past 30 day user" is defined as having used an illicit drug within the past 30 days.

The following questions were used to calculate the above classifications.

- **Q91:** Have you EVER used the following? Never used/Used at least once in my life/Used at least once in past 12 months/Decline to Answer
  - **A**: Marijuana or hashish (such as "pot," THC, "weed")
  - **B**: Synthetic cannabis ("spice," K2, herbal smoking blend)
  - **C**: Cocaine (including crack)
  - **D**: LSD (such as "acid")
  - **E**: PCP (such as "angel dust" or marijuana laced with PCP)
  - **F**: MDMA (such as "Ecstasy")
  - **G**: Other hallucinogens (such as peyote, mescaline, psilocybin – "shrooms")
  - **H**: Methamphetamine (such as "ice," "crystal meth," "speed," "crank")
  - **I**: Heroin (such as "Smack")
  - **J**: GHB/GBL (such as "Liquid X," "Gamma 10")
  - **K**: Inhalants (such as aerosol sprays, gasoline, poppers, "whippets")

- **Q92:** How many days in the PAST 30 DAYS did you use the following? 11 or more days/Used 4 to 10 days/Used 1 to 3 days/0 days
  - **A**: Marijuana or hashish (such as "pot," THC, "weed")
  - **B**: Synthetic cannabis ("spice," K2, herbal smoking blend)
  - **C**: Cocaine (including crack)
  - **D**: LSD (such as "acid")
  - **E**: PCP (such as "angel dust" or marijuana laced with PCP)
  - **F**: MDMA (such as "Ecstasy")
  - **G**: Other hallucinogens (such as peyote, mescaline, psilocybin – "shrooms")
  - **H**: Methamphetamine (such as "ice," "crystal meth," "speed," "crank")
  - **I**: Heroin (such as "Smack")
  - **J**: GHB/GBL (such as "Liquid X," "Gamma 10")
  - **K**: Inhalants (such as aerosol sprays, gasoline, poppers, "whippets")

Prescription Drug Use

The coding for prescription drug use is based on items derived from the 2010 National Survey on Drug Use and Health (NSDUH). Prescription drugs are controlled substances that can be legally obtained and possessed with a health care professional's authorization. The HRB survey asks respondents about their use of stimulants, sedatives, pain relievers, and anabolic steroids. The response categories reported for this composite score are:

- A "Lifetime" user is defined as having used a prescription drug more than 12 months ago.
- A "past 12 month" user is defined as having used a prescription drug more than 12 months ago.
- A "past 30 day user" is defined as having used a prescription drug within the past 30 days.

The indicators reported for this composite score are:

"Overall Prescription Drug Use" or "Any Prescription Use" which includes any use of stimulants, sedatives, pain relievers, or anabolic steroids.

"Pain Reliever Use" which includes use of pain relievers.

"Other Prescription Drug Use" which includes use of stimulants, sedatives, or anabolic steroids.

The following questions were used to calculate the above classifications.

- **Q93**: Have you EVER used the following? Never used/used at least once in my life/used at least once in past 12 months/decline to answer
  - **A**: Prescription stimulants or attention enhancers (such as amphetamines, Ritalin, Prescription diet pills, etc.),
  - **B**: Prescription sedatives, tranquilizers, muscle relaxers, or barbiturates (such as Ambien, Quaalude, Valium, Xanax, Rohypnol, Phenobarbital, etc.)
  - **C**: Prescription pain relievers (Oxycodone, Percocet, Cough syrups with codeine, Methadone, etc.)
  - **D**: Prescription anabolic steroids (such as Deca Durbolin, Testosterone, etc.)
- **Q94**: How many days in the PAST 30 DAYS did you use the following? 11 or more days/used 4 to 10 days/used 1 to 3 days/0 days
  - **A**: Prescription stimulants or attention enhancers (such as amphetamines, Ritalin, Prescription diet pills, etc.),
  - **B**: Prescription sedatives, tranquilizers, muscle relaxers, or barbiturates (such as Ambien, Quaalude, Valium, Xanax, Rohypnol, Phenobarbital, etc.)
  - **C**: Prescription pain relievers (Oxycodone, Percocet, Cough syrups with codeine, Methadone, etc.)
  - **D**: Prescription anabolic steroids (such as Deca Durbolin, Testosterone, etc.)

Prescription Drug Misuse

The coding for prescription drug use is based on items derived from the 2010 National Survey on Drug Use and Health (NSDUH). Prescription drugs are controlled substances that can be legally obtained and possessed with a health care professional's authorization. The HRB survey asks respondents about their use of stimulants, sedatives, pain relievers, and anabolic steroids: whether drugs were used, how they were used, and how they were obtained.

"Misusers" are defined as having used a prescription drug in one or more of the following circumstances:

- The drug was not prescribed to the respondent and was used in the past year,
- The drug was used in greater amounts than prescribed, or
- The drug was used to "feel good (get high or "buzzed").

The indicators reported for this composite score are:

- "Overall Prescription Drug Use" or "Any Prescription Use" which includes any use of stimulants, sedatives, pain relievers, or anabolic steroids.
- "Pain Reliever Use" which includes use of pain relievers.
- "Other Prescription Drug Use" which includes use of stimulants, sedatives, or anabolic steroids.

The following questions were used to calculate the above classifications.

- **Q93**: Have you EVER used the following? Never used/Used at least once in my life/Used at least once in past 12 months/Decline to Answer
  - **A**: Prescription stimulants or attention enhancers (such as amphetamines, Ritalin, Prescription diet pills, etc.),
  - **B**: Prescription sedatives, tranquilizers, muscle relaxers, or barbiturates (such as Ambien, Quaalude, Valium, Xanax, Rohypnol, Phenobarbital, etc.)
  - **C**: Prescription pain relievers (Oxycodone, Percocet, Cough syrups with codeine, Methadone, etc.)
  - **D**: Prescription anabolic steroids (such as Deca Durbolin, Testosterone, etc.)
- **Q95**: Have you EVER been prescribed the following? Never prescribed for me/Prescribed for me at least once in my life/Prescribed for me at least once in past 12 months/Decline to Answer
  - Same as above
- **Q96**: How did you obtain the following? Prescribed for me in a prior year/Prescribed for someone else/Obtained another way
  - Same as above
- **Q97**: IF you were prescribed the following in the PAST 12 MONTHS, how did you use it? Please select ONE response per row. Used a lower amount than prescribed/Used as prescribed/Used a greater amount than prescribed
  - Same as above
- **Q99**: What was the reason you took the following in the PAST 12 MONTHS? If there was more than one reason, for each row, Select ONE OR MORE responses that apply to you. To control pain/To feel good (get high or buzzed, etc.)/To reduce depression/To reduce anxiety/To control stress/To help me sleep/To help me stay awake
  - Same as above

5.4 Physical Health

Body Mass Index (BMI)
BMI is a measure of body mass to detect possible weight problems in male and female adults. Respondents are asked two open-ended questions about their weight and height to calculate BMI. The calculation is: (weight in pounds/height in inches^2) * 703. The response categories reported for this composite score are:
- Underweight
- Healthy weight
- Overweight
- Obese

The criteria to fit into the above categories depend on gender and age. Particularly for individuals under 20 years old, there are different criteria due to the changes in the amount of body fat.

Table A-1. Body Mass Index (BMI) Categories

	Underweight	Healthy Weight	Overweight	Obese
Males/females age 20 or older	BMI<18.5	18.5≤BMI<25.0	25.0≤BMI<30.0	BMI≥30.0
18 year old males	BMI<18.24	≤BMI<25.66	≤BMI<28.96	BMI≥28.96

	Underweight	Healthy Weight	Overweight	Obese
18 year old females	BMI<17.55	≤BMI<25.68	≤BMI<30.33	BMI≥30.33
19 year old males	BMI<18.73	≤BMI<26.36	≤BMI<29.73	BMI≥29.73
19 year old females	BMI<17.77	≤BMI<26.10	≤BMI<31.03	BMI≥31.03

The following questions are used to calculate the above classifications.
- **Q4:** Are you…? Male/female
- **Q15:** How old are you? Years [open-end numeric]
- **Q16:** About how tall are you without shoes on? Feet [open-end numeric]; Inches [open-end numeric]
- **Q17:** How much do you weigh without shoes on? (If you are currently pregnant, what was your typical weight before pregnancy?) Pounds [open-end numeric]

Physical Activity Target

The coding for physical activity is based on the Healthy People 2020 target for physical activity. National physical activity guidelines recommend 150 minutes of moderate physical activity or 75 minutes of vigorous physical activity per week, or an equivalent mixture of both. The HRB survey asks respondents about the frequency and duration with which they engage in moderate and vigorous activity, and the mid-points were taken to determine the approximate number of minutes of each type of activity per week. The response categories reported for this composite score are:
- 'Meets the target' is defined as engaging in 150 minutes of moderate vigorous activity or 75 minutes of vigorous physical activity, or an equivalent mixture of both.
- 'Does not meet the target' is defined as engaging in less than 150 minutes of vigorous activity and/or less than 75 minutes of vigorous activity.

The following questions were used to calculate the above classifications.
- Q26: During the PAST 30 DAYS, how often did you do the following kinds of physical activity? About every day/5 - 6 days a week/3 - 4 days a week/1 - 2 days a week/Less than 1 day a week/Not at all in the past 30 days
  - o A: Moderate Physical Activity – exertion that raises heart rate and breathing, but you should be able to carry on a conversation comfortably during the activity
  - o B: Vigorous Physical Activity – exertion that is high enough that you would find it difficult to carry on a conversation during the activity
- Q27: During the PAST 30 DAYS, on the days you did the following, how long PER DAY did you typically do each? 60 or more minutes/30 to 59 minutes/20 to 29 minutes/Less than 20 minutes/Never in the past month
  - o A: Moderate Physical Activity – exertion that raises heart rate and breathing, but you should be able to carry on a conversation comfortably during the activity
  - o B: Vigorous Physical Activity – exertion that is high enough that you would find it difficult to carry on a conversation during the activity

Higher Physical Activity Target

The coding for this composite is based on the Healthy People 2020 target for higher physical activity target. National physical activity guidelines state that additional health benefits can be achieved through higher levels of physical activity as compared with the baseline described above (Physical Activity Target). Higher levels of physical activity are characterized as 300 minutes of moderate physical activity or 150 minutes of vigorous physical activity per week, or an equivalent mixture of both. The HRB survey asks respondents about the frequency and duration with which they engage in moderate and vigorous activity, and the mid-points were taken to determine the approximate number of minutes of each type of activity per week. The response categories reported for this composite score are:

- 'Meets the target' is defined as engaging in 300 minutes of moderate vigorous activity or 150 minutes of vigorous physical activity, or an equivalent mixture of both.
- 'Does not meet the target' is defined as engaging in less than 300 minutes of vigorous activity and/or less than 150 minutes of vigorous activity.

The following questions were used to calculate the above classifications.

- Q26: During the PAST 30 DAYS, how often did you do the following kinds of physical activity? About every day/5 - 6 days a week/3 - 4 days a week/1 - 2 days a week/Less than 1 day a week/Not at all in the past 30 days
  - A: Moderate Physical Activity – exertion that raises heart rate and breathing, but you should be able to carry on a conversation comfortably during the activity
  - B: Vigorous Physical Activity – exertion that is high enough that you would find it difficult to carry on a conversation during the activity
- Q27: During the PAST 30 DAYS, on the days you did the following, how long PER DAY did you typically do each? 60 or more minutes/30 to 59 minutes/20 to 29 minutes/Less than 20 minutes/Never in the past month
  - A: Moderate Physical Activity – exertion that raises heart rate and breathing, but you should be able to carry on a conversation comfortably during the activity
  - B: Vigorous Physical Activity – exertion that is high enough that you would find it difficult to carry on a conversation during the activity

Sleep Target

The coding for sleep is based on the Healthy People 2020 target for sufficient sleep. Sufficient sleep is defined as eight or more hours for those aged 18 to 21 and 7 or more hours for those aged 22 or older. The response categories reported for this composite score are:

- 'Meets the target' is defined as personnel aged 18 to 21 obtaining eight hours of sleep per 24 hour period and personal aged 22 or older obtaining seven hours of sleep or more
- 'Does not meet the target' is defined as personnel aged 18 to 21 obtaining less than either hours of sleep per 24 hour period and personnel aged 22 or older obtaining less than seven hours of sleep or more.

The following question is used to calculate the proportion of HRB respondents who meet these criteria:

- Q15: How old are you? Years [OPEN-END NUMERIC]
- Q151: In the PAST WEEK (past 7 days), about how many hours on average did you sleep each 24 hour period?

Fruit and Vegetable Consumption

National nutritional guidelines encourage the consumption of fruits, vegetables, whole grains, dairy, and lean protein to improve overall health (Dietary Guidelines, 2010). The Department of Agriculture advises specifically on the recommended amounts of each food group based on age, gender, weight, and physical activity (USDA, 2015). According to choosemyplate.gov, for a 2000-calorie diet for those aged 18 or more, the following amounts are recommended: 2.5 cups of vegetables (2:1 non-starchy and starchy vegetables), 2 cups of fruit, 3 cups of dairy, 5.5 ounces of protein, and 3 ounces of whole grains. As shown in Figure 7, this translates approximately to the following serving amounts: 2 servings of non-starchy vegetables, 1 serving of starchy vegetables, 2 servings of fruit, 3 servings of dairy, 2 servings of protein, and 2 servings of whole grains. The HRB survey asks Reserve personnel the number of times a day in a typical week that they consume food groups. We assume that a 'time' translates into a 'serving' but in future iterations of the survey, recommend that the question be changed to align more closely to guidelines.

- Q34: In a TYPICAL WEEK, how often do you eat or drink the following foods?
  - **A:** FRUIT: fresh, frozen, canned, or dried
  - **C:** VEGETABLES: fresh, frozen, canned, cooked or raw (not fried)

5.5   Stress and Mental Health

Overall Stress Level in the Past 12 Months
The survey contains two items to measure level of overall stress in the past 12 months. In the first question participants indicate how often they experienced a lot of stress in the past 12 months. Responses are provided on a 5-point scale, ranging from "Never" to "Always." In the second question participants indicate how much military-related stress they experienced overall in the past 12 months. Average scores are calculated for each item separately; these scores are then averaged together. Those participants with an average score of 0.70 or greater were classified and presented in the tables as "High overall stress," whereas those with an average score of less than 0.70 were classified as "Low overall stress." Overall stress level was then dichotomized based on a cutoff value. The response categories reported for this composite score are:

- High overall stress level
- Low overall stress level

The following questions are used to calculate the above classifications.

- **Q127:** In the PAST 12 MONTHS, how often did you feel a lot of stress? Always/often/sometimes/seldom/never
- **Q128:** In the PAST 12 MONTHS, how much military-related stress have you experienced overall? A lot/some/a little/none at all

High Depression Level in the Past Week
There are two items in the survey to assess level of depressive symptoms in the past week. Response options are provided on a 5-point scale, ranging from "Never" to "5-7 days." To create a depression level scale, the responses were recoded (i.e., "5-7 days" was assigned a value of 1, "3-4 days" was assigned a value of .75, "1-2 days" was assigned a value of .5, "Less than 1 day" was assigned a value of .25, and "never" was assigned a value 0) and averaged. Depression level was then dichotomized based on a cutoff value. We classified and presented those with an average score of 0.75 or greater presented in the tables as "High depression," whereas those with an average score of less than 0.75 but greater than 0 were classified as "Low depression." The response categories reported for this composite score are:

- High depression level
- Low depression level

The following questions are used to calculate the above classifications.
- **Q133:** On how many days in the PAST WEEK did you feel the following for <u>most </u>of the day? Please select ONE response per row. 5 - 7 days/3 - 4 days/1 - 2 days/less than 1 day/never
    - **C:** I felt depressed
    - **E:** I felt sad

High Anxiety Level in the Past 30 Days
The survey contains 4 items to assess how often they experienced symptoms of anxiety associated with stress in the past 30 days. Responses are provided on a 4-point scale, ranging from "Not at all" to "More than half the days." To create an anxiety level scale, we recoded and then averaged the responses on the 4 items (i.e. "More than half the days" is assigned a value of 1, "Several days" is assigned a value of .667, "One or two days" is assigned a value of .333, and "Not at all" is assigned a value of 0). We then dichotomized anxiety level based on a cutoff value. Those participants with an average score of 0.75 or greater are classified and presented in the tables as "High anxiety," whereas those with an average score of less than 0.75 but greater than 0 are classified as "Low anxiety." The response categories reported for this composite score are:
- High anxiety level
- Low anxiety level

The following questions are used to calculate the above classifications.
- **Q134:** During the PAST 30 DAYS, how often have you been bothered by the following? More than half the days/several days/one or two days/not at all
    - **A:** Feeling nervous, anxious, on edge, or worrying a lot about different things
    - **B:** Getting tired very easily
    - **C:** Trouble falling asleep or staying asleep
    - **D:** Becoming easily annoyed or irritable

Suicide Attempts
The survey contains two items related to suicide attempts to determine whether and when it had occurred. If respondents answered that they had attempted suicide, there is a follow-up item about when the attempt had occurred. The response categories reported for this composite score are:
- Before joining the military
- Since joining the military, but not during or within six months of deployment
- During deployment or within six months before or after
- Never attempted

The following questions are used to calculate the above classifications.
- **Q147:** Have you ever attempted suicide? No/Yes/Decline to answer
- **Q148:** If you have ever attempted suicide, did you attempt it during any of the following periods? Please select ONE response per row. No/Yes
    - **A:** Within the past year

- o **B:** Since joining the military
- o **C:** Before joining the military
- o **D:** Within 6 months before leaving for deployment/mission
- o **E:** During a deployment/mission
- o **F:** Within 6 months after returning from a deployment/mission

Suicide Ideation

The survey contains two items related to suicide ideation to determine whether and when it had occurred. If respondents answered that they had seriously considered suicide, there is a follow-up item about when the ideation had occurred. The response categories reported for this composite score are:

- Before joining the military
- Since joining the military, but not during or within six months of deployment
- During deployment or within six months before or after
- Never considered

The following questions are used to calculate the above classifications.

- **Q145:** Have you ever seriously considered suicide? No/Yes/Decline to answer
- **Q146:** If you have ever seriously considered suicide, did you attempt it during any of the following periods? Please select ONE response per row. No/Yes
    - o **A:** Within the past year
    - o **B:** Since joining the military
    - o **C:** Before joining the military
    - o **D:** Within 6 months before leaving for deployment/mission
    - o **E:** During a deployment/mission
    - o **F:** Within 6 months after returning from a deployment/mission

Reported Physical Abuse

The survey contains a series of items related to physical and sexual abuse experienced before and after joining the military. A composite was created to identify all respondents who experienced any physical abuse (before or after joining the military). The response categories reported for this composite score are:

- Reported physical abuse
- Did not report physical abuse

The following questions are used to calculate the above classifications.

- **Q135:** Next, we have some questions you experiences you may have had. Please select one response per row. No/Yes
    - o **A:** <u>BEFORE </u>joining the military, were you ever physically abused, punished, or beaten by a person in authority or having some power over you so that you received bruises, cuts, welts, lumps, or other injuries?
    - o **B:** SINCE joining the military, have you ever been physically abused, punished, or beaten by someone <u>in the military </u>so that you received bruises, cuts, welts, lumps, or other injuries?

  o **C:** SINCE joining the military, have you ever been physically abused, punished, or beaten by a <u>civilian</u> so that you received bruises, cuts, welts, lumps, or other injuries?

Reported Sexual Abuse

The survey contains a series of items related to sexual abuse experienced before and after joining the military. A composite was created to identify all respondents who experienced any sexual abuse (before or after joining the military). The response categories reported for this composite score are:

- Reported sexual abuse
- Did not report sexual abuse

The following questions are used to calculate the above classifications.

- Q135: Next, we have some questions you experiences you may have had. Please select one response per row. No/Yes
    o **D:** BEFORE joining the military, did you experience ANY type of unwanted sexual contact? This would mean contact between someone else and your private parts or between you and someone else's private parts.
    o **E:** SINCE joining the military, have you experienced ANY type of unwanted sexual contact from anyone in the military?
    o **F**: SINCE joining the military, have you experienced ANY type of unwanted sexual contact from any civilian?

Positive Affect in the Past Week

The survey contains two items to measure positive affect in the past 7 days. Response choices were provided on a 5-point scale, ranging from "Never" to "5-7 days." To create a positive affect scale, the responses were recoded (i.e., "5-7 days" was assigned a value of 1, "3-4 days" was assigned a value of .75, "1-2 days" was assigned a value of .5, "Less than 1 day" was assigned a value of .25, and "never" was assigned a value 0) and averaged. Positive affect level was then trichotomized based on cutoff values. Those with an average score of 0.25 or lower were classified as 'Low Positive Affect', those averaging 0.90 or higher were classified as 'High Positive Affect', and those in between .25 and .90 were classified as 'Moderate Positive Affect'. The response categories reported for this composite score are:

- Low positive affect
- Moderate affect
- High positive affect

The following questions are used to calculate the above classifications.

- **Q133:** On how many days in the PAST WEEK did you feel the following for <u>most</u> of the day? Please select ONE response per row. 5 - 7 days/3 - 4 days/1 - 2 days/Less than 1 day/Never
    o **A:** I was happy
    o **D:** I was hopeful about the future

Resilience Level

The survey contains 6 items about resilience – 3 related to confidence in overcoming challenges and 3 related to enjoyment of challenges. Responses are provided on a 5-point scale, ranging from "Not at all" to "A great deal." We recoded responses to these 6 items (i.e., "A great deal" is assigned a value of 1, "A lot" is assigned a value of .75, "Somewhat" is assigned a value of .5, "A little" is assigned a value of .25,

and "Not at all" is assigned a value 0), and calculated averages separately for both resilience confidence and resilience enjoyment. We then averaged these scores, and resilience level was trichotomized. Participants with an average score of .25 or less are categorized as 'Low' resilience, those with a score between .25 and .75 are categorized as 'Moderate' resilience, and those with an average score of .75 or higher as 'High' resilience. Only low and moderate levels of resilience are presented in the tables. The response categories reported for this composite score are:

- Low resilience
- Moderate resilience
- High resilience

The following questions are used to calculate the above classifications.

- **Q149:** How much do the following statements describe you? Please select ONE response per row. A great deal/a lot/somewhat/a little/not at all
  - **A:** I am very optimistic.
  - **B:** I enjoy facing many challenges that I need to overcome.
  - **J:** I can bounce back from adversity easily.
- **Q178:** How much of the following statements describe you? Please select ONE response per row. A great deal/a lot/somewhat/a little/not at all
  - **A:** I like overcoming challenges.
  - **C:** I function well under adverse circumstances.
  - **I:** I can easily control what happens in my life.

High Risk-Taking Propensity

There are 3 survey items about how much behaviors related to risk-taking describe the respondent. Responses were measured on a 5-point scale, ranging from "Not at all" to "A great deal." To create a risk-taking propensity scale, response values were recoded and averaged for these 3 items (i.e., "A great deal" was assigned a value of 1, "A lot" was assigned a value of .75, "Somewhat" was assigned a value of .5, "A little" was assigned a value of .25, and "Not at all" was assigned a value 0). We then dichotomized risk-taking propensity based on a cutoff value. We classified and presented those with an average score of 0.75 or greater in the tables as "High risk-taking," whereas those with an average score of less than 0.75 but greater than 0 were classified as "Low risk-taking." The response categories reported for this composite score are:

- High risk-taking
- Low risk-taking

The following questions are used to calculate the above classifications.

- **Q149:** How much do the following statements describe you? Please select ONE response per row. A great deal/a lot/somewhat/a little/not at all
  - **G:** You might say I act impulsively.
  - **H:** I like to test myself every now and then by doing something a little chancy or risky.
- **Q178:** How much of the following statements describe you? Please select ONE response per row. A great deal/a lot/somewhat/a little/not at all
  - **G:** I go for the thrills in life when I get a chance.

High Anger Propensity

There are 4 survey items about behaviors related to anger. Responses for these 3 items were measured on a 5-point scale, ranging from "Not at all" to "A great deal." To create a risk-taking propensity scale, we recoded the response values on these 3 items (i.e., "A great deal" was assigned a value of 1, "A lot" was assigned a value of .75, "Somewhat" was assigned a value of .5, "A little" was assigned a value of .25, and "Not at all" was assigned a value 0). The fourth item asks respondents about internalization of anger on a 5-point scale. We recoded the responses to this item in the same way as the other 3 items (i.e., "Other people always know when I am angry" was assigned a value of 1, "Other people often know when I am angry" was assigned a value of .75, "Other people sometimes know when I am angry" was assigned a value of .5, "Other people rarely know when I am angry" was assigned a value of .25, and "Other people never know when I am angry" was assigned a value of 0). We then averaged the scores for all 4 items, and dichotomized anger propensity based on a cutoff value. Those with an average score of 0.75 or greater were classified as "High anger," whereas those with an average score of less than 0.75 but greater than 0 were classified as "Low anger." The response categories reported for this composite score are:
- High anger
- Low anger

The following questions are used to calculate the above classifications.
- **Q142:** When you get angry, which best describes you? Other people always know when I am angry/other people often know when I am angry/other people sometimes know when I am angry/other people rarely know when I am angry/other people never know when I am angry
- **Q149:** How much do the following statements describe you? A great deal/a lot/somewhat/a little/not at all
    - **C:** I often find myself getting angry at people or situations.
    - **I:** When I get angry, I get really mad.
- **Q178:** How much of the following statements describe you? A great deal/a lot/somewhat/a little/not at all
    - **B:** When I get angry I stay angry.

5.6 Deployment

High Posttraumatic Stress (PTS) Level, Past 30 Days
There are 4 items in the survey to determine the extent to which they experienced symptoms in the past 30 days that indicated need for further PTS evaluation. Participants indicate how much they have been bothered by each of the 4 symptoms in the past month. Responses are provided on a 5-point scale, ranging from "Not at all" to "Extremely." To create this scale, we will calculate an average from participants' responses on each of the 4 items. We will then use a dichotomous cut off to determine 'High PTS level'. Respondents with scores below 4 are categorized as "Low PTS," and those with scores of 4 and above are categorized and presented in the tables as "High PTS." The response categories reported for this composite score are:
- High PTS level
- Low PTS level

The following questions are used to calculate the above classifications.
- **Q136:** How much have you been bothered by each of the following in the PAST 30 DAYS? Please select ONE response per row. Extremely/quite a bit/moderately/a little bit/not at all
    - **B:** Feeling very upset when something reminded you of a stressful experience

- o **D:** Feeling emotionally numb or being unable to have loving feelings for those close to you
- o **E:** Having difficulty concentrating
- o **F:** Feeling jumpy or easily startled

Possible Traumatic Brain Injury (TBI)

To assess whether there is a need for further evaluation of mild TBI, respondents was asked three series of items based on the Brief Traumatic Brain Injury Screen (BTBIS; Schwab et al., 2006).

The first series of items (Q161A – Q161F) asks about six events experienced during most recent deployment (combat or non-combat) including:

- Blast or explosion (IED, RPG, land mine, grenade, etc.);
- Vehicular accident/crash (any vehicle, including aircraft);
- Fragment wound above the shoulders;
- Bullet wound above the shoulders;
- A fall serious enough to need medical attention; and
- Another type of injury.

A response of "Yes" to at least one item verifies occurrence of an injury.

The second series of items (Q165A – Q165H) asks about eight symptoms experienced during or after most recent deployment, including:

- Memory problems or lapses;
- Balance problems;
- Dizziness;
- Ringing in the ears;
- Sensitivity to bright light;
- Irritability;
- Headaches; and
- Nightmares.

A response of "Yes" to at least one item verifies the presence of TBI-related symptoms.

The final series of items (question Q167A – question Q167G) will ask whether an injury received during most recent deployment resulted in any of the following seven outcomes:

- Lost consciousness or got "knocked out" for less than a minute;
- Lost consciousness or got "knocked out" for 1 to 20 minutes;
- Lost consciousness or got "knocked out" for more than 20 minutes;
- Felt dazed, confused, or "saw stars";
- Didn't remember the event;
- Concussion or symptoms of a concussion (such as headache, dizziness, irritability, etc.); and
- Head injury.

If the respondent answered "Yes" to at least one of the injury outcome items, in addition to verification of at least one injury related event and one symptom based on the first two sets of items, further evaluation is recommended for possible TBI.

Responses:
- Possible TBI
- Unlikely TBI

Combat Exposure

There 17 items to assess level of combat exposure across all combat zone deployments since September 11, 2011. The items ask participants to indicate the number of times they had experienced combat-related events, such as "I personally fired my weapon at the enemy," "My unit suffered causalities," and "I was wounded in combat." Response options were provided on a 5-point scale, ranging from "Never" to "More than 50 times."

From these items, we will create a composite score using each individual item (A through Q), where a response of "More than 50 times" was assigned a value of 4, "13 to 50 times" was assigned a value of 3, "4 to 12 times" was assigned a value of 2, "1 to 3 times" was assigned a value of 1, and "Never" was assigned a value of 0. This sum score was trichotomized, with "10 and above=High Exposure," "1 to 9=Moderate Exposure," and "0=Low Exposure." Those who had not been deployed since September 11, 2001 according to Q148 or Q159 were categorized as "No combat deployments." The response categories for this outcome are:
- High (10 times or more)
- Moderate
- Low
- No Combat Deployments

The following questions are used to define the above classifications:
- **Q158:** Have you been deployed on either a combat or non-combat mission/deployment <u>since</u> September 11, 2001?
- **Q159:** The term "combat zone deployment," as used in this questionnaire, refers to a deployment where you received imminent danger pay (IDP), hazardous duty pay, and/or combat zone tax exclusion benefits. How many COMBAT deployments (including OIF, OEF, OND - missions where you received IDP, hazardous duty pay, and/or combat zone tax exclusion benefits) have you been on since <u>September 11, 2001</u>?
- **Q173A:** I was sent outside the wire on combat patrols, convoys, or sorties
- **Q173B:** I, or members of my unit, received incoming fire from small arms, artillery, rockets, or mortars.
- **Q173C:** I, or members of my unit, encountered mines, booby traps, or IEDs (improvised explosive devices).
- **Q173D:** I worked with landmines or other unexploded ordnances.
- **Q173E:** My unit fired on the enemy.
- **Q173F:** I personally fired my weapon at the enemy.
- **Q173G:** I engaged in hand-to-hand combat.
- **Q173H:** I was responsible for the death or serious injury of an enemy.
- **Q173I:** I witnessed members of my unit or an ally unit being seriously wounded or killed.

- **Q173J:** My unit suffered causalities.
- **Q173K:** I saw dead bodies or human remains
- **Q173L:** I handled, uncovered, or removed dead bodies or human remains.
- **Q173M:** Someone I knew well was killed in combat
- **Q173O:** I interacted with enemy prisoners of war.
- **Q173P:** I witnessed or engaged in acts of cruelty, excessive force, or acts violating rules of engagement.
- **Q173Q:** I was wounded in combat.