# AUGUST 2005 STATUS OF FORCES SURVEY OF ACTIVE-DUTY MEMBERS: TABULATIONS OF RESPONSES 

Introduction to the Survey

The Human Resources Strategic Assessment Program (HRSAP), Defense Manpower Data Center (DMDC), conducts both Web-based and paper-and-pencil surveys to support the personnel information needs of the Under Secretary of Defense for Personnel and Readiness [USD(P\&R)]. These surveys assess the attitudes and opinions of the entire Department of Defense (DoD) community on a wide range of personnel issues. An exclusively Web-based survey program, known as the Status of Forces Surveys (SOFS), provides data several times per year on active-duty and Reserve component members, and DoD civilian employees. Paper-and-pencil surveys are used to supplement Web-based surveys to obtain data on sensitive topics (e.g., sexual harassment) and from populations who may have limited Internet access (e.g., spouses of active and Reserve members).

This report contains tabulations of responses from the active-duty SOFS Web survey conducted August 19 to September 29, 2005. This introduction (1) summarizes the survey content, (2) defines the total population surveyed and the subgroups used in tabulations of responses, (3) summarizes the survey methodology, ${ }^{1}$ and (4) provides details on how to use the tabulations. The tabulations and a copy of the survey items follow this introduction. ${ }^{2}$

## Survey Content

The topics covered in the August 2005 Status of Forces Survey of Active-Duty Members included those in the Status of Forces Surveys of Active-Duty Members Long-Term Content Plan. The long-term content plan is at page 621. As indicated in that plan, there is a series of items included on all active-duty SOFS. These items include overall satisfaction, retention intention, perceived readiness, stress, Tempo, and permanent change-of-station (PCS) moves. In addition, items were included on deployments since September 11, 2001, commitment, housing, programs and services, commissaries and exchanges, health care, military/civilian comparisons, and balancing work life. The survey was subdivided into the following 15 topic areas:

1. Background Information-Service, gender, paygrade, education, marital status, spouse employment status, race/ethnicity, dependents, and location (both geographic and on/off base).

[^0]2. Satisfaction—Satisfaction with aspects of military life and overall satisfaction.
3. Retention—Likelihood to stay on active duty and spouse/family support to stay on active duty.
4. Tempo-PCS moves, days worked overtime, time away from permanent duty station, and the impact of time away on career intentions.
5. Readiness—Individual and unit preparedness, and training effectiveness.
6. Stress—Level of stress in work and personal life.
7. Deployments Since September 11, 2001—Number of times deployed for operations, time spent away, location of deployments, days spent in a combat zone, combat involvement, deployment expectations, and stop-loss.
8. Commitment-Commitment to serve.
9. Housing-Satisfaction with current residence and community, rating of housing, housing description, rent and mortgage payments, utility payments, and factors in housing preference.
10. Programs and Services: Availability and Satisfaction-Use of educational programs and services, English as a Second Language (ESL) services, satisfaction with on- and off-base schools, availability, usage, and satisfaction of on-base programs and services, and military-provided cultural and ethnic programs.
11. Commissaries and Exchanges—Availability, use, and satisfaction, comparisons with local stores, and distance.
12. Details on Deployments-Concerns while deployed for operation, financial costs associated with deployment, ways to cope with deployments, and emotional impact of deployments.
13. Health Care—Satisfaction with aspects of military members' and their families' health care and dental benefits.
14. Military/Civilian Comparisons-Comparisons of military to the civilian world, including promotion opportunities, hours worked, compensation, benefits, education and training, spouse education and employment opportunities, children's education, and general quality of life.
15. Balancing Work Life—Frequency of maintaining work-life balance, balancing military requirements and family responsibilities, and factors that improve work-life balance.

## Population and Reporting Categories

The target population for all active-duty SOFS consists of active-duty members of the Army, Navy, Marine Corps, and Air Force, excluding National Guard and Reserve members, who (1) had at least 6 months of service at the time the questionnaire was first fielded and (2) were below flag rank when sampled. Survey results are presented for the total population, and also for a variety of reporting categories. To form the reporting categories for the tabulations, respondents are classified primarily by survey self-report. If the self-reported data are missing, then DMDC's Active Duty Master Edit File data, at the time of sampling, are used to impute the subgroup classification. Survey results are tabulated by: Service, paygrade, location, education level, race/ethnicity, family status, gender, officer/enlisted by gender, and Service by paygrade. Definitions for collapsed reporting categories follow:

- Service—The categories include Army, Navy, Marine Corps, and Air Force.
- Paygrade—The Enlisted subgroup includes all enlisted paygrades (E1-E9). The Enlisted subgroup is further broken into the following groups: 3 to 5 years (i.e., first term decision window), 6 to 9 years (i.e., second term decision window), E1-E4s, and E5-E9s. The Officers subgroup includes warrant officers (W1-W5) and commissioned officers (O1-O3 and O4-O6).
- Location-Geographic locations (Figure 1) are collapsed into geographic regions as defined by the Department of Defense Worldwide Manpower Distribution by Geographic Area (DoD Washington Headquarters Services, 2001). The primary classification distinguishes Overseas from US (including territories). US (including territories) includes those respondents with permanent duty stations located in the 50 states, District of Columbia, Puerto Rico, and United States territories or possessions. Within the Overseas classification, two regions can be reported separately: (1) Europe, which includes countries such as Bosnia-Herzegovina, Germany, Italy, Serbia, and the United Kingdom; and (2) Asia and Pacific, which includes countries such as Australia, Japan, and Korea. Housing locations are classified primarily for financial analyses based on whether respondents are provided housing directly or by allowance, rather than community analyses based on geographic location of the housing. From self-report data, On Base includes living in or aboard ship, in barracks/dorm/BEQ/ UEPH/BOQ/UOPH ${ }^{3}$ military facilities, or in on-base military family housing. Off Base includes living in military family housing off base, in privately owned or rented housing, or in privatized military housing. If the selfreported data are missing, then on base and off base are imputed from record data indicating whether the respondent does not or does qualify,

[^1]respectively, to receive Basic Allowance for Housing (BAH) or Overseas Housing Allowance (OHA).

Figure 1.
Geographic Locations Used for Analyses


- Education-Respondents are classified based on self-reported educational attainment. No College includes anyone without some college credit. Some College includes those with some college credit, including a 2-year degree, but does not include those with a 4-year degree. Four-year Degree includes those with a 4-year degree and those with some graduate school, but no graduate or professional degree. Graduate/Professional Degree includes those with masters, doctorates, and first professional degrees (i.e., MA/MS/MEng/MBA/MSW/PhD/MD/JD/DVM).
- Race/Ethnicity—Respondents are classified based on self-reported categories that are consistent with requirements of the Standards for Maintaining, Collecting, and Presenting Federal Data on Race and Ethnicity (1997). Total Minority includes all persons marking one or more of the races other than White and/or marking that they are Spanish/Hispanic/Latino.

Non-Hispanic Black includes persons marking only Black or African American and not reporting being Spanish/Hispanic/Latino. Hispanic includes anyone marking that they are Spanish/Hispanic/Latino, regardless of how they answered the question on race.

- Family Status-Respondents are classified based on self-reported marital status, spouse employment, and legally dependent children (ages 22 and under). Except for Working Spouse, missing data can be imputed from record data if the respondents do not answer these questions. ${ }^{4}$ Single includes those who have never been married or are divorced/widowed and have not remarried. Married includes those who are married or legally separated. With Child(ren) includes those with dependent child(ren) aged 22 and under, regardless of where the child(ren) live(s). Working Spouse includes those members whose spouse is working as measured by the U.S. Census Bureau's Current Population Survey (CPS) questions, and those in military service. Dual Service Spouse includes military members married to (including separated from) another military member (active or Reserve components).
- Gender-This category is self-explanatory.
- Service by Paygrade-The categories include each of the Services by enlisted and officer paygrade groups.


## Survey Methodology

The Web survey administration process began on August 9, 2005, with the mailout of notification letters to sample members. This notification letter explained why the survey was being conducted, how the survey information would be used, and why participation was important. Throughout the administration period, additional e-mail and postal reminders were sent to encourage survey participation. Data were collected on the Web between August 19 and September 29, 2005.

Single-stage, nonproportional stratified random sampling ${ }^{5}$ procedures were employed. The sample consisted of 35,461 individuals drawn from the sample frame constructed from DMDC's Active-Duty Master Edit File. Members of the sample became ineligible if they indicated in the survey or by other contact (such as telephone

[^2]calls or e-mails to the data collection contractor) that they were not on active-duty service as of the first day of the Web survey, July 25, 2005 (0.67\% of sample).

Completed surveys (defined as $50 \%$ or more of the questions asked of all participants are answered) were received from 10,406 eligible respondents. The overall weighted response rate for eligibles, corrected for nonproportional sampling, was $35 \%$. Data were weighted to reflect the population of interest. These weights reflect (1) the probability of selection, (2) a nonresponse adjustment factor to minimize bias arising from differential response rates among demographic subgroups, and (3) a poststratification factor to force the response-adjusted weights to sum to the counts of the target population as of the month the sample was drawn and to provide additional nonresponse adjustments.

Table 1 (pages 8-9) shows the number of respondents and the portion of total respondents in each reporting group. Also shown are the estimated number of members and the portion of total members in each reporting group. Differences in the percentages of respondents and population for the reporting categories reflect differences in the number sampled, as well as differences in response rates. ${ }^{6}$

## Tabulation Procedures

Tabulations ${ }^{7}$ for each question from the survey are shown on a set of facing pages. The text of the questions and response options are shown at the top of the even-numbered pages, with only the question repeated on the odd-numbered pages. To compress the width of columns in the tables, the response options are shown with a number, letter, or with DNA (i.e., Does not apply) and then that number, letter, or DNA is used as the column heading for the responses. The central feature of the tabulations is the percentage of members choosing the response options indicated by the column heading. Within a set of response options, percentages may not add to $100 \%$ due to rounding.

Where an item lends itself to presentation as an average, that average is also shown as a number estimate and in a bar chart. The averages lend themselves to a quick scan for reporting groups that differ from other similarly defined groups. Where a true response continuum is available (e.g., number of children, nights away), the mean of that continuum is presented; in other cases, the responses are averages of the numeric scales presented with the response options. Where there is a simple binomial response (e.g., yes/no), only one percentage is presented. In this case, the bar chart represents that percentage.

On each page of tabulations, the first column lists the reporting group shown in that row. The second column, Percent Responding, lists the portion of the reporting

[^3]group represented in the estimates in that row. In most cases, if this percentage is not 100, it is reflecting item nonresponse, and the table notes that "Percent responding are Service members who answered the question."

Not all questions will apply to every respondent. Where possible, the Web survey is programmed to skip respondents over questions that do not apply to them. For example, Q31 (Where are you currently deployed?) does not apply to those who marked in Q30 that they were not currently deployed for 30 days or more. The notation to this question indicates the "Percent responding are Service members who answered the question and who were currently deployed for 30 days or more (Q30)."

The survey does not always skip questions that do not apply to the respondents. In the tabulations, Does not apply responses are typically included in the percentages in the Percent Responding column. For example, Q5 asked members to indicate how many years they had been in a relationship with their current significant other. Survey participants can indicate that the question does not apply. Q5 is also an example of where particular care has to be taken to interpret responses because Q5 was (1) within a skip pattern and (2) had an individual item response of Does not apply.

## Combining Information From Multiple Items

Tabulations in this volume generally present data for individual survey questions. There are three types of exceptions. The first type of exception is where the results for multiple items are presented on a single set of pages.

- In Q15, members are asked how many dependents they have in each of the age ranges. For this question, the tabulations show the percentage of the reporting category with dependents in that age range. The averages shown on these pages are based only on those with at least one dependent and, therefore, show the average number of dependents for those who have dependents.

The second type of exception is where members can provide multiple answers to a single question (e.g., race).

- In Q17, members are asked to mark one or more races. The tabulations show the percentage who responded that they were White, Black, American Indian/Alaska Native, Asian, and/or Native Hawaiian/Other Pacific Islander. Respondents who indicated more than one race are also shown in the percentage of More Than One Race Marked. For example, if a respondent indicated they were Asian and White, they were counted in the percentage as Asian, White, and More Than One Race Marked.

The third type of exception pertains to composite measures, which on this survey include spouse employment and organizational commitment.

Table 1.
Number of Respondents and Estimated Population by Reporting Categories


Table 1 (continued)

|  | Respondents |  |  | Estimated Population |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Count |  | Percent | Totals |  | Percent |  | Max ME |
| FAMILY STATUS |  |  |  |  |  |  |  |  |
| Single wl Child(ren) | 704 | 7\% | - | 75,437 | $\pm 7,390$ | 6\% | 】 | $\pm 1 \%$ |
| Single w/o Child(ren) | 2,560 | 25\% |  | 442,467 | $\pm 18,142$ | 34\% |  | $\pm 2 \%$ |
| Married wl Child(ren) | 5,263 | 51\% |  | 558,542 | $\pm 14,627$ | 43\% |  | $\pm 2 \%$ |
| Married w/o Child(ren) | 1,869 | 18\% |  | 235,482 | $\pm 13,711$ | 18\% |  | $\pm 2 \%$ |
| Working Spouse | 3,957 | 38\% |  | 458,359 | $\pm 16,254$ | 35\% |  | $\pm 2 \%$ |
| Dual Service Spouse | 1,055 | 10\% | $\square$ | 114,899 | $\pm 8,907$ | 9\% | $\square$ | $\pm 1 \%$ |
| GENDER |  |  |  |  |  |  |  |  |
| Male | 8,496 | 82\% |  | 1,123,676 | $\pm 13,835$ | 86\% |  | $\pm 1 \%$ |
| Enlisted | 5,123 | 49\% |  | 941,839 | $\pm 13,866$ | 72\% |  | $\pm 1 \%$ |
| Officers | 3,373 | 32\% |  | 181,837 | $\pm 2,922$ | 14\% |  | $\pm 1 \%$ |
| Female | 1,900 | 18\% |  | 188,251 | $\pm 6,820$ | 14\% |  | $\pm 1 \%$ |
| Enlisted | 1,250 | 12\% |  | 155,583 | $\pm 6,743$ | 12\% |  | $\pm 1 \%$ |
| Officers | 650 | 6\% | - | 32,669 | $\pm 1,213$ | 2\% |  | $\pm 1 \%$ |
| SERVICE BY PAYGRADE |  |  |  |  |  |  |  |  |
| Army Enlisted | 2,212 | 21\% |  | 375,708 | $\pm 7,237$ | 29\% |  | $\pm 1 \%$ |
| E1-E4 | 917 | 9\% | $\square$ | 170,826 | $\pm 6,895$ | 13\% |  | $\pm 1 \%$ |
| E5-E9 | 1,295 | 12\% |  | 204,882 | $\pm 5,148$ | 16\% |  | $\pm 1 \%$ |
| Army Officers | 1,329 | 13\% |  | 75,290 | $\pm 2,171$ | 6\% | 】 | $\pm 1 \%$ |
| O1-03 | 364 | 4\% | I | 34,272 | $\pm 1,547$ | 3\% | I | $\pm 1 \%$ |
| 04-06 | 459 | 4\% | I | 27,846 | $\pm 1,222$ | 2\% | \| | $\pm 1 \%$ |
| Navy Enlisted | 1,582 | 15\% |  | 297,184 | $\pm 8,337$ | 23\% |  | $\pm 1 \%$ |
| E1-E4 | 604 | 6\% | I | 125,514 | $\pm 7,775$ | 10\% |  | $\pm 1 \%$ |
| E5-E9 | 978 | 9\% |  | 171,670 | $\pm 5,272$ | 13\% |  | $\pm 1 \%$ |
| Navy Officers | 889 | 9\% | $\square$ | 51,155 | $\pm 1,464$ | 4\% | I | $\pm 1 \%$ |
| O1-03 | 402 | 4\% | - | 27,484 | $\pm 1,530$ | 2\% | \| | $\pm 1 \%$ |
| O4-06 | 448 | 4\% | I | 21,735 | $\pm 1,141$ | 2\% | \| | $\pm 1 \%$ |
| Marine Corps Enlisted | 999 | 10\% |  | 147,769 | $\pm 4,749$ | 11\% |  | $\pm 1 \%$ |
| E1-E4 | 454 | 4\% | I | 90,576 | $\pm 4,838$ | 7\% | $\square$ | $\pm 1 \%$ |
| E5-E9 | 545 | 5\% | I | 57,193 | $\pm 2,677$ | 4\% | I | $\pm 1 \%$ |
| Marine Corps Officers | 940 | 9\% | - | 17,239 | $\pm 828$ | 1\% |  | $\pm 1 \%$ |
| O1-03 | 395 | 4\% | I | 9,308 | $\pm 866$ | 1\% | - | $\pm 1 \%$ |
| O4-06 | 437 | 4\% | I | 6,194 | $\pm 273$ | 0\% |  | $\pm 1 \%$ |
| Air Force Enlisted | 1,580 | 15\% |  | 276,761 | $\pm 7,117$ | 21\% |  | $\pm 1 \%$ |
| E1-E4 | 594 | 6\% | - | 112,967 | $\pm 4,988$ | 9\% | $\square$ | $\pm 1 \%$ |
| E5-E9 | 986 | 9\% | - | 163,794 | $\pm 6,026$ | 12\% |  | $\pm 1 \%$ |
| Air Force Officers | 865 | 8\% | $\square$ | 70,821 | $\pm 1,483$ | 5\% | I | $\pm 1 \%$ |
| O1-03 | 426 | 4\% | I | 39,682 | $\pm 1,884$ | 3\% | I | $\pm 1 \%$ |
| O4-06 | 438 | 4\% | I | 31,125 | $\pm 1,599$ | 2\% | \| | $\pm 1 \%$ |

- Spouse employment indicators are derived from Q6-Q12 and are modeled to be comparable to employment measures used in the U.S. Census Bureau's Decennial Census and Current Population Survey (CPS). Two sets of tabulations are presented. In the first set, labor force participation is shown for the spouses of those in the reporting category. The four categories contain percentages of (civilian) employed, unemployed, not in the labor market, and Armed Forces member. Those not in the labor market include those who are permanently or temporarily not working or not actively looking for work. ${ }^{8}$ The second set of data shows only those in the labor market. That is, the percent responding are married Service members who answered the items and whose spouses are in the labor market (civilian employed, unemployed but looking for work, and in the Armed Forces). The unemployment rates shown in these tables are the percent of those who need or want to work and are unemployed. These rates are comparable to those reported monthly by the Bureau of Labor Statistics based on the CPS data.
- In Q50, members are asked about their organizational commitment. Three measures of organizational commitment (Q50) are presented. Affective Commitment can be defined as emotional attachment to, an identification with, and an involvement in an organization (Q50a, b, e, h, j, and m). Continuance Commitment can be defined as attachment based on the perceived costs associated with leaving an organization (Q50c, f, i, l, and n). Normative Commitment can be defined as a sense of obligation to remain in an organization (Q50d, g, and k). In the tabulations, individual items in this measure are presented first; after the individual item, are three sets of tabulation pages that show composite measure results. Lower scores on these measures indicate less organizational commitment, while higher scores represent more commitment.


## Margins of Error

The complex sample design required weighting to produce population estimates (e.g., percent female). ${ }^{9}$ Because of the weighting, conventional formulas for calculating the margin of error will overstate the reliability of the estimate. For this report, variance estimates were calculated for the report using SAS ${ }^{\circledR}$ PROC SURVEYMEANS.

By definition, sample surveys are subject to sampling error. Standard errors are estimates of the variance around population parameters, such as percentages or

[^4]means, and are used to construct margins of error (i.e., confidence interval halfwidths). Percentages and means in these tabulations are reported with margins of error based on 95\% confidence intervals. In order to compress the data display, only the maximum margin of error (Max ME) for each reporting category is shown. That is, the tab volume shows only the largest margin of error for the percentages or means in each row. For each average shown in these tabulations, its margin of error is also printed.

Estimates may be unstable based on a small number of observations or relatively large variance in the data or weights. Particularly unstable estimates are suppressed or annotated in these tabulations. The following rules are used:

- "0" indicates that no one in any reporting group selected the response option,
- NR indicates the estimate is Not Reportable because it was based on fewer than 30 respondents or the relative standard error was high. NR frequently occurs for percent responding and not for the percentage estimates because the sample sizes in the percent responding cell are relatively small (i.e., 31 to 140), making it difficult to reliably estimate extreme values (i.e., percentages greater than $95 \%$ or less than $5 \%$ ),
- NA indicates the question was Not Applicable because the question did not apply to respondents in the reporting category based on answers to previous questions,
- no Max ME is printed when all percentages in the row are shown as NR,
- no margin of error is printed for an average when it is shown as NR.


## References

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[^0]:    ${ }^{1}$ Details on survey methodology are reported by Riemer and Kroeger (2003) and DMDC (2005b).
    ${ }^{2}$ Refer to DMDC (2005a) to view a screen-shot version of the survey as it appeared on the Web.

[^1]:    ${ }^{3}$ Bachelor/Base Enlisted Quarters, Unaccompanied Enlisted Personnel Housing, Bachelor Officers' Quarters, and Unaccompanied Officers Personnel Housing, respectively.

[^2]:    ${ }^{4}$ Because there are no administrative record data for working spouses, this category cannot be imputed.
    ${ }^{5}$ In stratified random sampling, all members of a population are categorized into homogeneous groups. For example, members might be grouped by gender and Service (all male Army personnel in one group, all female Navy personnel in another, etc.). Members are chosen at random within each group. Small groups are oversampled in comparison to their proportion of the population so there will be enough responses from small groups to analyze. Weights are used so that groups are correctly represented in the analyses.

[^3]:    ${ }^{6}$ There is also a slight difference in treatment of missing data. Cases with missing data are included in counts of respondents, but are excluded in population estimates.
    ${ }^{7}$ Details of data editing and preparation are provided by DMDC (2005a).

[^4]:    ${ }^{8}$ Those who have not actively looked for work in the past 4 weeks are considered to be out of the labor market. This category includes some percentage of spouses who are in the midst of a PCS move and, therefore, only temporarily out of the labor market.
    ${ }^{9}$ This differential weighting means that only certain statistical software procedures, such as PROC SURVEYMEANS, correctly calculate standard errors, variances, or tests of statistical significance.

