Manpower Performance Indicators: Final Report

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The mission of the Deputy Commandant for Manpower and Reserve Affairs (M&RA) is to provide the appropriate number of adequately trained, sufficiently experienced, qualified Marines to unit commanders so that they can accomplish their assigned missions. Because the Marine Corps devotes about 65 percent of its budget to personnel costs, any improvement in the manpower process provides the opportunity to realize significant monetary savings while improving unit manning and readiness. Accurate and meaningful measures of effectiveness are needed to ensure the efficient and effective running of the manpower process and to identify possible problems. Thus, manpower performance indicators (MPIs) have been developed to measure performance to provide decision-makers with up-to-date information.

Using MPIs, the management information division of M&RA has built a website that is very well used (www.manpower.usmc.mil/mpi). The Deputy Commandant, M&RA, asked CNA to help develop additional performance indicators. This annotated briefing reports on that work.
In this final report, we’ll discuss the first three sets of indicators described on the slide. The final two topics on the slide have been discussed in previous papers.¹

We’ll start with MPIs to measure stress on the force, then turn to MPIs for entry-level training, and finish with MPIs for civilian Marines.

¹ Using Marine Corps Manpower Performance Indicators To Create Unit Profiles, by Michael J. Moskowitz, Michael C. Markowitz, and Aline O. Quester (CNA Annotated Briefing D0015073/November 2006), and Forecasting the Marine Corps’ Aviator Inventory, by Michael J. Moskowitz with Theresa H. Kimble and Robert W. Shuford (CNA Information Memorandum D0014629/August 2006).
Marine Corps leadership has been very interested in identifying metrics that measure stress on the force. Indeed, CNA has been asked to brief these metrics at the last two General Officer Symposiums. Stress-on-the-force MPIs are somewhat different from the MPIs currently on the manpower website. Most MPIs on the website either look at the current situation or, in the case of deployment information, look over the last 2 years. The data are updated daily from the Marine Corps Total Force System (MCTFS). MCTFS is considered the “gold standard” for Marines Corps data.

Unfortunately, much of the data for many of our proposed stress-on-the-force metrics do not directly reside in MCTFS. In addition, our metrics do not readily lend themselves either to daily updates or to a 2-year viewing window. We believe that stress-on-the-force metrics could be updated quarterly or yearly and that these stress-on-the-force MPIs will need to reflect information over several years to be meaningful. Let’s discuss each of these metrics in turn.
Some commentators have worried that the operational stress could translate into deviant behavior for servicemembers. In particular, there has been concern that servicemembers returning from wartime deployments could engage in either spousal or child abuse. The Personnel and Family Readiness Division of M&RA keeps data on the incidence of domestic or child abuse.

As the slide shows, the incidence of both domestic and child abuse has fallen since FY01. At least through the end of FY06, there is no indication that Marine Corps’ operational stress has translated into this kind of behavior by Marines.

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2 See “Deployment and the Probability of Spousal Aggression by U.S. Army Soldiers,” by James E. McCarroll, Military Medicine, January 2000, for findings that the probability for severe aggression increased with the length of deployment. See also “Strain and Battle Fatigue of War Hit Home Front,” by Gregg Zoroya, USA Today, February 21, 2006, for a discussion of the recent increase in spouse abuse cases at Robins Air Force Base in Georgia.
The Defense Manpower Data Center (DMDC) calculates divorce rates each year for personnel in each service. DMDC’s divorce rate calculation looks at all personnel who are married at the beginning of the fiscal year and then looks at quarterly snapshots throughout the year to identify those who are no longer married. If the servicemember left the military during the year, marital status in the loss record is examined. Thus, the divorce rate is calculated as follows:

\[
\text{Divorce rate} = \frac{\text{(# married at beginning of year and not married at some time in year)}}{\text{(# married at beginning of year)}}.
\]

The slide shows these divorce rates for enlisted Marines and Marine Corps officers. Looking at the pre- and post-9/11 periods, there has been no change in the divorce rate that DMDC calculates for either Marine Corps enlisted personnel or officers.

There are reasons to believe that the actual divorce rate for servicemembers is higher than that calculated by DMDC. First, some servicemembers may remarry as soon as their divorce becomes final (thus never showing a divorced status on personnel records). Second, some servicemembers may leave the service before a divorce is finalized. This is particularly relevant for first-term Marines since virtually all first-term Marines enter as singles. By the end of the first term of service, about 40 percent are married. Most, however, have not been married long enough to have secured a divorce before the reenlistment point when most separate from the service. Even if the DMDC divorce rates understate the actual divorce rates, there is no reason to believe that DMDC divorce rates would miss any trends up or down in the divorce rate.
Divorce rates are higher for female Marines than for male Marines. The divorce rate for female Marines was about 8 percent in FY96, FY02, and FY04, and FY05, but it fell in FY06. While the divorce rate for female Marines is marginally higher after 9/11 than before, the fact that it fell in FY06 suggests that high operational tempo has not yet caused increases in female Marines’ divorce rates. Male Marines’ divorce rates have been essentially constant since FY93.
Deserters are Marines who have unauthorized absences of more than 29 days.\textsuperscript{3} There are a number of ways to measure individual deserters:

- Number of deserters at start of FY
- **Number of new deserters in FY**
- Number of deserters returned during FY
- Number of deserters at end of FY
- Number of Marines that held deserter status sometime during FY.

In addition, since some Marines desert more than once (even within an FY), one can develop measures of Marines with multiple desertion records.

We believe that showing the number of new deserters in each FY and the number of Marines who held deserter status in the FY (shown on the next slide) would provide good indicators for desertion.

As this slide shows, the number of new deserters has been falling since 9/11.

\textsuperscript{3} Deserters were identified as Marines with a duty status of “S.”
The number of Marines with a duty status of “S” (deserters) some time in the fiscal year is composed of those Marines who are carried in deserter status from one year to the next and new deserters. It should be noted that the number of Marines who are carried from one year to the next in deserter status is relatively constant.

Deserter MPIs should be updated yearly. It might also be useful to supplement the two deserter MPIs with a table containing the data for the different ways to measure deserters, specifically:

- Number of deserters at start of FY
- **Number of new deserters in FY**
- Number of deserters returned during FY
- Number of deserters at end of FY
- Number of Marines that held deserter status sometime during FY.

*As of 7 September 2006.*
The suicide rate is monitored by the Personnel and Family Readiness Division in M&RA. The rate, adjusted for Marine Corps demographics, is well below the national average.

Suicides are rare events. Using rare events as indicators can be misleading because a small change in the raw count can cause a very large change in the rate. While the change in the rate could be from some underlying problem, it could also be from randomness. Still, there is considerable interest in this MPI, and we think it is worth including in the stress indicators.

As yet, there is no indication that the high operational tempo has caused an increase in suicides.

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Our understanding is that at the time of this writing, the CY06 data are preliminary because 2000, there is one more death that might be declared a suicide.
CNA maintains “street-to-fleet” files for enlisted Marines. We follow Marines from the Yellow Footprints through the first term of service. Since most enlisted Marines have 4-year initial enlistment contracts, we follow all accessions for the first 4 years.\(^5\) Here we show first-term non-EAS attrition by fiscal year of accession. For example, for those recruits who entered in FY01, we monitor attrition through FY05; for those who entered in FY02, we monitor attrition through FY06, and so on.

First-term attrition has declined since about FY95; this decline has continued more forcefully in the post-9/11 time period.

\(^5\) Thus, we monitor Marines with 5-year initial enlistment contracts for only the first 4 years.
Another measure of stress is drug use. The positive drug test rate is also monitored by the Personnel and Family Readiness Division in M&RA. The rate per 1,000 tests fell from FY01 through FY03. From FY04 through FY06, the rate has been steady at about 7 positive drug tests for every 1,000 tests.

In FY06, the Marines took 599,436 samples: 3,889 were positive for a rate per 1,000 tests of 6.5 positive samples.
We regard lost leave, regardless of whether it is later restored, as a measure of stress on the force.\textsuperscript{6} In essence, we assume that “leave not taken” indicates an inability to take the leave because the workload is too high. Our working assumption is that Marines would rather take the leave than risk losing the leave.

We suggest two methods to measure the inability of servicemembers to take their leave. For Marines who have sufficient years of service to have accumulated more than 60 days of leave, we measure the inability of Marines to take leave by the number of Marines who “lost” leave when all leave balances are reduced to 60 days at the end of each fiscal year. Thus, the first measure is the number of active-duty Marines who lost leave during the fiscal year (as shown on the slide).

\textsuperscript{6} Servicemembers accumulate 30 days of regular leave per fiscal year and may carry over a maximum of 60 days into the next fiscal year. If the servicemember has more than 60 days’ leave at the end of the fiscal year, the member “loses” leave and his or her leave balance is set back to 60 days. Limiting leave carryover to 60 days is intended to encourage Marines to use their leave. In the current operational environment, however, some Marines (particularly those who are deployed) may be unable to use their leave within a particular fiscal year. These Marines may be granted Special Leave Accrual (SLA). If Marines are authorized SLA, there is a process to restore all or part of the lost leave. Restoration of lost leave is at the discretion of the Commander. The indicator for stress on the force, however, is the leave that is not taken during the year.
Some Marines are too junior to lose leave (because they have not accumulated sufficient leave to “lose” it). For lance corporals and corporals, therefore, we had suggested monitoring annual leave balances to see if they are increasing. While leave balances increased through FY04, they declined in FY05 and FY06.
The Naval Safety Center keeps data on non-combat related mishaps. Class A mishaps are mishaps with:

- A loss greater or equal to $1,000,000 or
- A fatality or total disability.

Class B mishaps are those with:

- A loss greater or equal to $200,000 or
- A partial disability or
- Three or more persons hospitalized as inpatients.

We combine class A and class B ground mishaps, but kept the distinction between operational (result of USMC operations) and non-operational mishaps (generally off-duty). The mishap rate is normalized per 100,000 Marines. While this data are aggregated such that there is no visibility on particular categories (for example motorcycle mishaps), the indicator is useful for revealing potential problems that can be investigated further.

Non-operational mishaps are more common than operational mishaps. Examples of non-operational mishaps include recreational and private motor vehicle accidents. Non-operational mishap rates have moved up and down but in FY06 the rate is lower than in the mid-nineties. Operational mishaps are higher than they were pre-9/11. In both categories, the trend is of concern, but the rates are not yet significantly unusual.

We recommend this MPI be updated annually from the Naval Safety Center.
This MPI is for class A and class B aviation mishaps (non-combat). Here, the rate is per 100,000 flight hours. For aviation mishaps, the Class A classification is the same as that for ground mishaps with the inclusion of total aircraft destruction. Aviation mishaps include flight mishaps (Damage to aircraft or crew with intent for flight), flight-related mishaps (damage by aviation activity, but none to aircraft or crew), and aviation ground mishaps (no intent for flight).

We recommend combining Class A and Class B reporting for both ground and aviation for two reasons. First, these are the most reliable safety data available. Second, the class A and B rates don’t always move together and viewing the combined rate ensures that all severe events are captured. As with the combined ground mishap rates, this aggregated indicator serves as an overall signal to suggest weather further research in this area is warranted.

The combined Class A and B aviation mishap rate is trending slightly higher right now with a visible change post-9/11. It was highest in FY04, falling in FY05, and only rising slightly in FY06.

We recommend this metric from the Naval Safety Center be updated annually.
Servicemembers with dependents can receive family separation allowances (FSAs) for additional expenses incurred because of an enforced family separation of over 30 consecutive days. The allowance is payable to qualified people serving either inside or outside the United States, but is not authorized when under permissive orders. This stress metric measures how much “away time” service members with dependents are experiencing. It would supplement measures of deployed time but would allow for creation of a longer time series (since data on deployed time go back only to FY01). It would measure FSA recipients as a share of all personnel eligible for FSA receipt.

We recommend that this metric be updated monthly.
The MPI website was originally developed to display indicators for deployment tempo (deptime). Deptime event days are days spent in operations, exercises, unit training, home station training, and mission support TDY. The website provides two ways to look at deployments or deptime days: by the unit’s history (often called “follow the flag”) or by the histories of Marines currently in the Corps. The data can be filtered in a variety of ways, such as by unit, by primary military occupational specialty (PMOS), by grade, and by marital status. The deptime and deployment MPIs are updated daily and accessed by Marines from all over the Corps.

Here we are suggesting that the deptime data could be used in a slightly different way—namely, to highlight the strains on the Corps because of the operational missions. The above slide shows the number of Marines with exercise days in the month. It has fallen steadily, as the Marine Corps’ commitment to operations has increased. We think the number of Marines with exercise days in the month would be a good metric to add to indicators that measure “stress on the force.” We also believe that a long series, starting in FY01, would be most useful. The metric could be updated monthly.
This slide shows a similar metric—namely, the number of Marines with unit training days in the month. We would also add a metric for the number of Marines with home station training days in the month. Again, this should be a long series, starting in FY01 and updated monthly.
Time to Train

- Entry-level training
  -
- Enlisted Marines
  - Yellow Footprints to assignable PMOS
- Marine Corps Commissioned Officers
  - Arrival at TBS to assignable PMOS

Each year the Marine Corps makes a substantial investment in entry-level training. This is a consequence both of the services having to train their personnel and of the requirements of the Marine Corps for a small career force and a large first-term enlisted force. While the entry-level training is necessary, every Marine in entry-level training is a Marine not in the operating forces. We believed that the Marine Corps needed a visible method of keeping track, PMOS by PMOS, of how long this entry-level training was taking. With up-to-date information, the Marine Corps could identify PMOSs for which training was increasing. Investigation could then focus on these PMOSs, trying to identify either reasons for the increase or any inefficiencies in the process.

In the course of our study, we developed MPI time-to-train metrics, some of which have already been implemented on the MPI website. In this section, we’ll describe these metrics in more detail. As the slide indicates, we measure the length of entry-level training by:

- Active duty base date to assignable PMOS for enlisted Marines
- Arrival at The Basic School (TBS) for Marine Corps commissioned officers

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7 We use the date of PMOS attainment to identify an assignable PMOS. For enlisted personnel, we require that the date of PMOS attainment be no longer than 2 years from the active duty base date (ADBD) to avoid counting Marines who make a lateral move from one PMOS to another at the first reenlistment point.
Current Systems

- Great Micro Visibility
  - Course by course through Training Information Management System (TIMS)
- Poor Macro Visibility
  - Actual time to complete entry-level training

**Need visibility on time to initial PMOS to identify potential inefficiencies**

Training and Education Command (TECOM) has TIMS to track Marines in training, course by course. While this electronic system maintains detailed information for each course, the Marine Corps was lacking information on how long it took individual Marines to complete their initial training. Without this information, one cannot determine how much time in the training pipeline was spent in actual training and how much time was spent not in training (travel between training sites, waiting for courses to begin, etc.). Moreover, there was no visibility as to whether current initial skill training was taking more or less time than it had in the past.

With visibility—PMOS by PMOS—on the time it takes to train a Marine Corps officer or enlisted Marine, the Marine Corps will be better able to identify inefficiencies in entry-level training. Questions about the number of course convenings and the timing of these course convenings for a PMOS can be better addressed if we have accurate information on how much “wait time” there is in the training pipeline.
Time to Train for Entry-Level PMOSs

- All data are averages over previous 12 months
  - Some schools convene only a few times a year
- For each entry-level, assignable PMOS
  - Actual average training days in the last year
  - Benchmarks
    - Minimum training days
    - Planned training days
    - Long-term average training days (3 years)
  - Number of Marines trained
- Additional information on datasheet for each PMOS

Because some schools convene courses for a particular PMOS only a few times a year, we constructed time-to-train measures as averages over the previous 12 months. For example, the length of initial skill training in November 2006 is the average time it took to complete initial skill training in the period of December 2005 through November 2006. An additional advantage of using the previous 12 months’ averages for training time is that it avoids any seasonality.\(^8\)

We use three initial benchmarks for time to train. Minimum training time is the time it would take if the logistics work perfectly. Planned training time takes into account the number of class convenings. Both of these initial benchmarks were provided by TECOM. The final benchmark is the long-term average training time. This 3-year average is computed directly from the data.

The MPIs for time to train also include overall averages for all enlisted and commissioned officers. Before turning to those, let’s look at an overview of the number of man-years committed to entry-level training.

\(^8\) It will be important to study seasonal patterns in training time, but one does not want an indicator that is supposed to measure an overall increase or decrease in training time to be contaminated with seasonality.
Man-Years for Initial Skills Training: Dec 2005 - Nov 2006

• Enlisted Marines: Yellow Footprints to PMOS attainment (26,866 trained)
  – 17,239 man-years
  – Averaged 7.7 months
• Commissioned Officers: Date arrived at TBS to PMOS attainment (1,202 trained)
  – 2,079 man-years
  – Averaged 1.7 years, or 20.8 months

In the year ending in November 2006, the Marine Corps committed 19,318 man-years of its force of about 180,000 to entry-level training. That’s almost 11 percent of the endstrength. Clearly, entry-level training time is important to monitor.

Let’s look now at entry-level training for commissioned officers.
This slide is taken directly from the MPI on the M&RA website. The grade selection was “Officers” and the MOS was “All Officers.” The data are for Marine Corps commissioned officers who completed their entry-level training in the month and year specified on the horizontal axis.

The magenta bars measure the number of man-years this training took (axis on the left-hand side). For example, in the December 2005 through November 2006 period, the training time averaged 1.73 man-years. The black line measures the number of Marines trained in the year ending in the month specified on the horizontal axis. In the December 2005 through November 2006 period, 1,202 commissioned officers completed their entry-level training.

To look at all enlisted personnel, or at a particular MOS, the user makes the appropriate grade and MOS selections and presses the “refresh chart” key. The “details” key shows the information in detail. This information can be copied into an Excel spreadsheet. The next page illustrates the detail for the selection on the above slide.
<table>
<thead>
<tr>
<th>Month</th>
<th>Avg. man-years</th>
<th>Marines trained</th>
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<td>1,302</td>
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<td>Oct-04</td>
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<td>Nov-04</td>
<td>1.78</td>
<td>1,170</td>
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<td>Dec-04</td>
<td>1.76</td>
<td>1,168</td>
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<td>Jan-05</td>
<td>1.67</td>
<td>1,217</td>
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<td>Feb-05</td>
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<tr>
<td>Mar-05</td>
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</tr>
<tr>
<td>Apr-05</td>
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<tr>
<td>May-05</td>
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<td>Jun-05</td>
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<td>Sep-05</td>
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<tr>
<td>Nov-06</td>
<td>1.73</td>
<td>1,202</td>
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</table>
Riflemen (0311) is the Marine Corps’ largest MOS. As is clear from the above slide, average training time for 0311s has been increasing. While training time averaged 183 days for the year ending in March 2004, by the year ending in November 2006 the training time average was 189. While an additional 6 days may seem small, multiplying 6 days by the 5,285 enlisted Marines is additional training time of 31,710 days. In the course of a year, that is 87 fewer 0311s in the fleet.

Because the 0311 class convenes almost every week, the difference between the minimum (blue horizontal line) and the planned (yellow horizontal line) training time is quite small. The long-term average training time of 185 days (the green horizontal line) is considerably above both the minimum (153 days) and planned (159 days) training time lines. If the 5,285 Marines who became 0311 in the year ending in November 2006 had been trained in the planned training time of 159 days instead of the actual time of 189 days, there would have been almost 200,000 fewer training days (and about 521 additional 0311s in the fleet). However, we do not really know if the planned training time is realistic. A CNA study is under way to develop better planned training times and to try to determine if there are inefficiencies that can be corrected.

The next page shows the information for 0311s that is found when the “details” button is selected.
## Training days

<table>
<thead>
<tr>
<th>Month</th>
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<th>Actual</th>
<th>Planned</th>
<th>LT Avg.</th>
<th>Minimum</th>
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<td>5,308</td>
<td>189</td>
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<td>5,285</td>
<td>189</td>
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</table>

---

Content of “details” selection for Riflemen (0311s).
This slide shows an additional feature developed at CNA that we hope will soon be added to the selections on the website. The data currently go only through the year ending in May 2006. The yellow horizontal line is the planned or expected training time of 153 days. The figures above each month are called box-and-whisker diagrams. The red line is the median (half of those trained took less time and half took more time than the median). The circle at the bottom is the 10th percentile (10 percent of those trained took less time); for the year ending in May 2006, 10 percent of those trained took less than 154 days. The bottom of the vertical rectangle is the 30th percentile, and the top of the rectangle is the 80th percentile. The top circle is the 90th percentile; for the year ending in May 2006, 10 percent of new 0311s took more than 225 days to complete training for the MOS.

These distributions are interesting because one can determine if everyone is taking a longer or shorter period (or if it is just one part of the distribution that has changed). Looking at the entry-level training of 0311s through May 2006, it appears that everyone is taking longer because the entire distribution has shifted up. In addition, and this is a good thing, the distribution has become more compact, with fewer Marines taking an excessively long or short time to complete training.10

10 The data are getting better and better, but there are still some errors. These errors are primarily in the too-short (PMOS credited before it is earned) or too-long (PMOS not credited until the Marine is in the fleet) categories.
Here we show the information for Infantry Officers (0302s). There were about 225 0302s trained in the year ending November 2006. The minimum training time is about 30 days below the planned training time, indicating that the classes do not convene that regularly. Current training time (348 days) is longer than the long-term average training time (332 days).
The Marine Corps has greatly increased the number of Marines trained as Reconnaissance Men (0321s) during the period. For the year ending in May 2004, 90 Marines were trained as 0321s. For the year ending in November 2006, 219 0321s were trained. Training time increased over the period, reaching 414 days for the year ending in October 2005. Actual training time then fell substantially; for the year ending in November 2006, actual training time was 365 days.
Time to Train: What Is Measured

Enlisted

ADBD

Date of PMOS attainment

Officers

TBS arrival date

Date of PMOS attainment

Start of Active Duty Until Assignable Marine

This slide illustrates graphically what we are measuring in the time-to-train MPI.
The United States Marine Corps (USMC) employs a large civilian workforce. In this section, we describe how MPIs could be created for the civilian workforce. Our MPIs are annual snapshots that allow Marine Corps managers throughout the Marine Corps to see the composition of their workforces and how it has changed over time. When implemented on the website, we anticipate they would be updated monthly. The data used to construct these MPIs for Civilian Marines can be obtained from the Defense Manpower Data Center (DMDC).
The United States Marine Corps employs a large civilian workforce. In 2006, the USMC employed approximately 25,600 civilians, referred to as “Civilian Marines.” The USMC also employs a number of foreign national employees, employees who are citizens of another country and whose duty station is not in the United States or its territories. Currently, foreign nationals are not included in our analyses.

Civilian Marines, like all civilian DOD employees, can be classified into two different categories according to whether or not Congress appropriates funds for paying them:

- **Appropriated-Fund Employees** – Congress appropriates funds for paying these employees. APF employees are federal employees who are part of the Civil Service. For the most part, APF employees must be U.S. citizens.

- **Non-Appropriated-Fund Employees** – Congress does not appropriate funds for paying these employees. These employees are paid from funds “obtained from recreational and other service establishments operated primarily by the Department of Defense for morale, welfare, and recreation purposes.”¹¹ NAF employees are not required to be U.S. citizens.

The personnel policies and employee benefits differ between the APF and NAF workforces. For instance, APF employees can retire under either the Civil Service Retirement System (CSRS) or the Federal Employees’ Retirement System (FERS), depending on when they were originally hired. NAF employees are covered under a separate system, the NAF Retirement program. Furthermore, APF employees are covered by all the personnel policies administered by the Office of Personnel Management (OPM), while NAF employees are covered by only some of these policies. DoD develops personnel policies for NAF employees.

Within the APF and NAF workforces, there are a number of pay systems. Historically, the APF workforce has had two main pay systems: the Federal Wage System (FWS) and the General Schedule (GS). The FWS covers blue-collar workers (i.e., trade, craft, or laboring employees). FWS pay rates are set so that they are comparable to private-sector wages for the same type of work within the same local wage area. The GS covers most white-collar workers (i.e., administrative, clerical, scientific, artistic, or technical employees not connected with trades and crafts). GS pay rates are set using surveys of non-Federal employers, including state or local governments.

Starting in 2007, GS employees started being converted to NSPS. NSPS pay rates are designed to be both performance based and sensitive to local labor market conditions.

NAF employees can also be covered by the FWS. NAF workers in the FWS are further identified by their position: Worker, Leader, or Supervisor. Two other pay systems in the NAF workforce of interest are the Pay Band System\textsuperscript{12} and the Children and Youth Pay System. The Pay Band System covers white-collar positions within the NAF, while the Children and Youth Pay System covers positions that provide direct care or supervision of children.

\textsuperscript{12} Two historical NAF pay systems, the Administrative Support pay system and the Patron Service pay system, were incorporated into the Pay Band System in the recent past.
Data Covering Civilian Marines

- Defense Manpower Data Center gathers information on these civilian Marines
  - Demographic characteristics
  - Job characteristics
  - Military/veteran background (APF only)

To better manage both components of this civilian workforce, CNA has developed Manpower Performance Indicators (MPIs) for these Civilian Marines.

The data used to construct MPIs for Civilian Marines are obtained from the Defense Manpower Data Center (DMDC). These data are gathered separately for the APF and NAF workforces. Both the APF and NAF datasets are “snapshots” as of September of each year that contain demographic characteristics, such as gender, and job characteristics, such as full-time employment status. But there are differences in the specific data gathered for the APF and NAF workforces. For instance, information on the veteran status of an employee is gathered for the APF but not the NAF workforce. Therefore, MPIs are calculated separately for each workforce, and the MPIs calculated for each workforce may not be exactly comparable.

Some of the variables used to construct the MPIs are not available for the entire time period (1996 through 2006). The MPIs not available for the entire time period follow:

**APF workforce**
- Occupation Classification (available 1998 through 2006)
- Ethnicity/Race (available 2002 through 2006)
- Occupation Code (available 1998 through 2006)

**NAF workforce**
- Collective bargaining status (available 2003 through 2006).

Furthermore, race/ethnicity data for the NAF workforce is not consistently coded and, thus, is not used.
Data Covering Civilian Marines (continued)

• DMDC data can be used to:
  – Construct MPIs for Civilian Marines
  – Construct subgroups of workforce so that MPIs can be applied both to the entire workforce and to these subgroups

The DMDC data can be used not only to construct these MPIs but also to split each workforce into various subgroups. For instance, one can use these data to split the workforce by gender into a male subgroup and a female subgroup. The MPIs constructed can then be applied not only to the entire workforce but also to specific subgroups within that workforce.

Some variables are used both to construct MPIs and as a way to subset the workforce. For instance, gender and age group are both MPIs and gender is also used to create a subset of the workforce. Therefore, one can view gender for the entire workforce and also view age group by gender.
The MPIs that can be constructed with the DMDC data can be used to address the following types of questions:

- What is happening to the racial and gender composition of the workforce?
- What proportion of the workforce belongs to a union?
- Is the workforce aging?
- How many retired Marines are entering as Civilian Marines? (APF workforce only)?
- How much of the workforce is eligible to retire? (APF workforce only)?
MPIs Can Answer the Following Questions (cont’d)

- Are Civilian Marines representative of the civilian labor force?
  - Comparisons by race/ethnicity and gender
  - Geographic comparisons
- Are subsets of the Civilian Marine workforce representative of the entire Civilian Marine workforce?

The MPIs that can be constructed with the DMDC data can also be used to examine the degree to which Civilian Marines are representative of the civilian labor force. Probably the most useful comparisons will be in terms of race/ethnicity and gender. These Census comparisons can also be made geographically. The civilian labor force data from the Decennial Census is collected every 10 years and is based on a 1-in-6 sample.

MPIs can also be used to examine the degree to which subsets of the Civilian Marine workforce are representative of the entire Civilian Marine workforce. For instance, one could examine the degree to which supervisors/managers mirror the entire Civilian Marine workforce in terms of race/ethnicity or gender.
Below is a list of the APF workforce MPIs along with a description of what the graph pertaining to the MPI would show:

**Total workforce (by pay plan)** – the total number of APF employees each year from 1996 through 2006. This graph also shows the breakdown of APF employees by pay plan (General Schedule, Federal Wage System, other pay plan).

**Occupation classification** – the percentage of the workforce classified as blue-collar and the percentage classified into each of the following white-collar groups: administrative, clerical, professional, technical, and other white-collar.

**Supervisory status** – the percentage of the workforce classified as managers/supervisors and non-supervisors.

**Work Schedule** – the percentage of the workforce classified as full-time workers and part-time workers.

**Collective bargaining status** – the percentage of the workforce classified as:
- In a bargaining unit
- Eligible but not in bargaining unit
- Ineligible for inclusion in bargaining unit.

**Age group** – the percentage of the workforce that falls into specific age groups.

**Gender** – the percentage of the workforce classified as male and female.

**Ethnicity/race** – the percentage of the workforce classified as white (non-Hispanic), black (non-Hispanic), Hispanic, and other/not determined.
APF workforce can be split into subgroups by:

- Occupation
- Civilian career community
- Location (Unit Identification Code, or UIC)
- Retirement eligibility
- Veteran status
- Retired military status
- Disability status
- Gender
- Ethnicity/race

The available workforce subsets are defined by the different values of the following variables:

**Occupation** – The occupation code for each employee submitted by the appropriate DoD agency consistent with standards set by OPM.

**Civilian career community** – The USMC groups civilian occupations into career communities. We grouped occupation codes to accord with these USMC career communities.

**Location (UIC)** – The UIC identifies the location of each civilian Marine.¹³

**Retirement eligibility** – Indicates whether an employee is eligible for regular retirement, eligible for early retirement, or not eligible for retirement.

**Veteran status** – This variable, constructed using several variables from the DMDC dataset per instructions in the DoD APF Civilian Personnel Master Edit File, indicates whether an employee is a veteran.

**Retired military status** – Indicates whether an employee retired from the military.

**Veteran disability status** – Indicates whether an employee who is eligible for a veterans preference received veterans preference due to a disability of less than 30 percent, due to a disability of 30 percent or more, or did not receive preference due to a disability.

**Gender** – Indicates whether an employee is male or female.

**Ethnicity/race** – Indicates whether an employee is white (not Hispanic), African-American (not Hispanic), Hispanic, or other race/not identified.

Below is a list of the NAF workforce MPIs along with a description of what the graph pertaining to the MPI would show:

**Total workforce (by pay plan)** – the total number of NAF employees each year from 1996 through 2006. This graph also shows the breakdown of NAF employees by pay system (FWS Worker, FWS Leader, or FWS Supervisor, Pay Band System, Children and Youth Pay System, and Other Pay Plan).

**Work schedule** – the percentage of the workforce classified as permanent/full-time, permanent/part-time, and flexible.

**Collective bargaining status** – the percentage of the workforce classified as unionized and not unionized.

**Age group** – the percentage of the workforce that falls into certain age groups.

**Gender** - the percentage of the workforce classified as male and female.

**Citizenship status** – the percentage of the workforce classified as U.S. citizen and not U.S. citizen.
The available subsets for the NAF workforce are defined by the different values of the following variables:

**Occupation** – The occupation code for each employee submitted by the appropriate DoD agency consistent with standards set by OPM.

**Gender** – Indicates whether an employee is male or female.

**Disability status** – Indicates whether an employee is disabled. NAF does not gather information on the degree to which an employee is disabled, so this variable would equal 1 both for employees with a minor disability and for employees with a major disability.

**Citizenship status** – Indicates whether an employee is a U.S. citizen.

The rest of the brief will show examples of MPIs calculated for both the APF and the NAF workforce. An example of each available MPI will be shown for both the entire workforce and for a subset of the data. The MPIs for the APF workforce will be shown first, followed by the MPIs for the NAF workforce.
Appropriated-Fund Workforce Supervisory Status

Career Community = Administration
### Appropriated-Fund Workforce

**Work Schedule**

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<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Part-time</td>
<td>0.7</td>
<td>0.6</td>
<td>0.5</td>
<td>0.5</td>
<td>0.6</td>
<td>0.5</td>
<td>0.4</td>
<td>0.6</td>
<td>0.6</td>
<td>0.4</td>
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<tr>
<td>Intermittent</td>
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<td>0.3</td>
<td>0.3</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
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<td>0.1</td>
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<tr>
<td>Full-time</td>
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<td>99%</td>
<td>100%</td>
<td>99%</td>
<td>99%</td>
<td>99%</td>
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**Race = African-American**

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<th>2005</th>
<th>2006</th>
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<td>Percent of workforce</td>
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<td>99.1</td>
<td>98.9</td>
<td>99.1</td>
<td>99.3</td>
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<td>Part-time</td>
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<td>0.4</td>
<td>0.5</td>
<td>0.2</td>
<td>0.2</td>
</tr>
<tr>
<td>Intermittent</td>
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<td>0.5</td>
<td>0.6</td>
<td>0.5</td>
<td>0.4</td>
</tr>
<tr>
<td>Full-time</td>
<td>99%</td>
<td>99%</td>
<td>99%</td>
<td>99%</td>
<td>99%</td>
</tr>
</tbody>
</table>
Appropriated Fund Workforce
Collective Bargaining Status

Appropriated-Fund Workforce
Collective Bargaining Status

Veteran status = Veteran
Appropriated-Fund Workforce
Age Groups

Percent of workforce
Age group in years 1996 – 2006, 1 bar per year

Appropriated-Fund Workforce
Age Groups 1996-2006
Veteran Disability Status = 30% Disabled

Percent of workforce
Age group in years 1996 – 2006, 1 bar per year
Total Non-Appropriated-Fund Workforce Citizenship Status

Total Non-Appropriated-Fund Workforce Citizenship Status

Gender = Female

Year

Percent of workforce


Not U.S. Citizen
U.S. Citizen
Unknown
The Manpower Performance Indicators (MPIs) for Civilian Marines that were covered in this brief should help the USMC to better monitor their civilian workforce. These MPIs allow the USMC to understand if and how the civilian workforce is changing both in terms of demographic characteristics and in terms of job characteristics. Furthermore, these MPIs can be monitored for specific subsets of the workforce. If one is interested in the civilian workforce at MCB Camp Lejeune, one can view the MPIs for only the civilian workforce there. If one is interested in a certain career community (such as the “Administration” career community), one can view the MPIs for that certain career community. One can also use the MPIs to become aware of how the civilian workforce may change in the future by monitoring the number of Civilian Marines who are retired military and the number of Civilian Marines who are eligible to retire.

CNA will supply the MI section of M&RA with both the DMDC data for the 1996–2006 time period as well as any recoding of that data. Updates can be obtained by MI from DMDC.
## Data Appendix

<table>
<thead>
<tr>
<th>Variable</th>
<th>Possible values</th>
<th>How constructed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appropriated-Fund Workforce</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age group</td>
<td>•30 years old or younger</td>
<td>Used DMDC age variable for age groups.</td>
</tr>
<tr>
<td></td>
<td>•31 to 40 years old</td>
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</tr>
<tr>
<td></td>
<td>•41 to 50 years old</td>
<td></td>
</tr>
<tr>
<td></td>
<td>•51 to 60 years old</td>
<td></td>
</tr>
<tr>
<td></td>
<td>•Over 60 years old</td>
<td></td>
</tr>
<tr>
<td>Civilian career community</td>
<td>•Administration</td>
<td>Used DMDC occupation variables and grouped occupations together according to USMC’s civilian career community definitions.</td>
</tr>
<tr>
<td></td>
<td>•Analyst</td>
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<td></td>
<td>•Community Support</td>
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<td></td>
<td>•Contracts</td>
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<td></td>
<td>•Education &amp; Training</td>
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<td>•Engineering &amp; Science</td>
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<tr>
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<td>•Environmental</td>
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<td>•Intelligence</td>
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<td>•Legal</td>
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<td>•Manufacturing</td>
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<tr>
<td></td>
<td>•Media &amp; PR</td>
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<tr>
<td></td>
<td>•Medical</td>
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<tr>
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<td>•Safety</td>
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<tr>
<td></td>
<td>•Security</td>
<td></td>
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<tr>
<td>Collective bargaining status</td>
<td>•In a bargaining unit</td>
<td>DMDC variable</td>
</tr>
<tr>
<td></td>
<td>•Eligible for but not in a bargaining unit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>•Ineligible for inclusion in bargaining unit</td>
<td></td>
</tr>
<tr>
<td>Disability status</td>
<td>•Disability of less than 30 percent</td>
<td>DMDC variable. Defined only for veterans who are eligible for veterans’ preference.</td>
</tr>
<tr>
<td></td>
<td>•Disability of 30 percent or more</td>
<td></td>
</tr>
<tr>
<td></td>
<td>•No disability</td>
<td></td>
</tr>
<tr>
<td>Ethnicity/race</td>
<td>•White (not Hispanic)</td>
<td>DMDC variable</td>
</tr>
<tr>
<td></td>
<td>•African-American (not Hispanic)</td>
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</tr>
<tr>
<td></td>
<td>•Hispanic</td>
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<tr>
<td></td>
<td>•Other race/not identified</td>
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<tr>
<td>Gender</td>
<td>•Male</td>
<td>DMDC variable</td>
</tr>
<tr>
<td></td>
<td>•Female</td>
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<tr>
<td></td>
<td>•Unknown</td>
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<tr>
<td>Location (UIC)</td>
<td>**</td>
<td>DMDC variable</td>
</tr>
<tr>
<td>Occupation</td>
<td>**</td>
<td>DMDC variable</td>
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## Data Appendix (continued)

<table>
<thead>
<tr>
<th>Variable</th>
<th>Possible values</th>
<th>How constructed</th>
</tr>
</thead>
</table>
| **Occupation classification** | • Blue-collar  
                         • White-collar: Administrative  
                         • White-collar: Clerical  
                         • White-collar: Professional  
                         • White-collar: Technical  
                         • White-collar: Other  | DMDC variable                                                                   |
| Retired military status   | • Retired military  
                         • Not retired military                                              | DMDC variable                                                                   |
| Retirement eligibility    | • Eligible for regular retirement  
                         • Eligible for early retirement  
                         • Not eligible for retirement                               | DMDC variable                                                                   |
| Supervisory status        | • Managers/supervisors  
                         • Non-supervisors                                                   | DMDC variable                                                                   |
| Veteran status            | • Veteran  
                         • Not a veteran                                               | Constructed using several DMDC variables per instructions in the DoD APF Civilian Personnel Master Edit File. |
| Work schedule             | • Permanent: Full-time  
                         • Permanent: Part-time  
                         • Intermittent                                                   | Constructed using DMDC variables on work schedule and employment code.          |

### Non- Appropriated-Fund Workforce

<table>
<thead>
<tr>
<th>Variable</th>
<th>Possible values</th>
<th>How constructed</th>
</tr>
</thead>
</table>
| **Age group**             | • 30 years old or younger  
                         • 31 to 40 years old  
                         • 41 to 50 years old  
                         • 51 to 60 years old  
                         • Over 60 years old  
                         • Unknown                                                      | Used DMDC age variable for age groups.                                         |
| Citizenship status        | • U.S. citizen  
                         • Not U.S. citizen                                               | DMDC variable                                                                   |
| Collective bargaining status | • Unionized  
                         • Not unionized                                              | DMDC variable                                                                   |
| Disability status         | • Disabled  
                         • Not disabled                                               | DMDC variable                                                                   |
| Gender                    | • Male  
                         • Female  
                         • Unknown                                                     | DMDC variable                                                                   |
| Occupation                | **                                                                                          | DMDC variable                                                                   |
| Work schedule             | • Permanent: Full-time  
                         • Permanent: Part-time  
                         • Flexible                                                   | Constructed using DMDC variables on work schedule and employment code.          |

** This variable takes on too many values to list.