Do Bonuses Affect Enlistment and Reenlistment?

Between 2000 and 2008, the Department of Defense (DoD) budget for enlistment and reenlistment bonuses increased substantially, from $266 million to $625 million for enlistment bonuses and from $891 million to $1.4 billion for selective reenlistment bonuses (all figures are in 2008 dollars). These increases raised questions in Congress and at the Government Accountability Office about the scope and efficacy of bonuses. Congress directed DoD to provide information on the number and average amounts of bonuses and on metrics of bonus performance. DoD requested that the RAND National Defense Research Institute (NDRI) conduct analyses enabling a response to the congressional mandate.

Frequency and Size of Bonuses

In addressing the question of the size and scope of enlistment bonuses, NDRI focused on the Army and Navy. The percentage of Army recruits receiving bonuses went up from about 40 percent in 2004 to about 70 percent in 2008. Over the same period, the size of the average bonus among those receiving bonuses increased from $5,600 to $18,000 and from $3,000 to $12,000 among all recruits. Numerous occupational skills shared in the increase, although the amount of the increase varied by occupational specialty, suggesting that the Army used bonuses both to expand the market for recruits and to channel recruits into specific job skills.

In the Navy, the percentage of enlistees receiving bonuses declined while the percentage in the Army was increasing. The average size of bonuses, however, increased among those receiving them, but not to the same extent as in the Army. Navy bonuses were targeted to different skills in different years, however, suggesting that the objective was aimed more at skill-channeling than at market expansion.

With respect to reenlistment bonuses, the branches with the heaviest combat duties in Operations Enduring Freedom and Iraqi Freedom had the largest increases in bonus use and generosity. For example, at some time during the past decade, the majority of soldiers reenlisting in the Army and Marine Corps received bonuses; in 2007, almost 80 percent of those soldiers reenlisting at the end of their first enlistment term received bonuses. Furthermore, the generosity of bonuses increased in these services as well. The average generosity of end-of-first-term reenlistment bonuses in the Army increased by more than 50 percent between 2003 and 2005–2007. In contrast, over this same period, the use of these bonuses declined in the Air Force, while their average generosity declined in the Navy.

Performance Metrics

To assess the performance of bonuses, the researchers needed criteria, which they drew from authoritative DoD sources. The criteria are that bonuses

- support DoD’s force management goals, particularly recruiting and retention
- be used flexibly, i.e., be adjusted quickly to address specific evolving recruiting or retention problems
- be efficient in terms of achieving goals at the least cost relative to other resources.

Key findings:

- Enlistment and reenlistment bonus programs are important in helping the services meet their recruiting and retention objectives.
- The services flexibly manage these programs by targeting bonuses to specific groups and adjusting them in a timely manner.
- Enlistment and reenlistment bonuses are cost-effective relative to pay as a recruiting and retention resource.
Effectiveness. Using statistical models of Army enlistment data and civilian-sector economic and demographic data, the NDRI researchers found that enlistment bonuses were an important contributor to the Army’s success in meeting its recruiting objectives in recent years. They estimated that high-quality Army enlistments would have been 26,700, or 20 percent lower between 2004 and 2008 in the absence of the increase in enlistment bonuses that occurred over this period. Their analysis suggests that the military operations in Iraq and Afghanistan had a downward effect on Army recruiting and that the expanded use and higher levels of bonuses helped counteract this downward trend.

As for reenlistment bonuses, the researchers used their estimated models of reenlistment for each service to simulate the effect of eliminating the bonus program in 2007. They found that doing so would have reduced the probability of reenlistment in the Army at the end of the first term from 39 percent to 35 percent, a sizable drop. Alternative models produce even larger estimates for the Army, but in general, the estimates are consistent in suggesting that bonuses were a critical tool for the Army in meeting its retention objectives in 2007.

Compared with the Army, the estimated reenlistment effects of bonuses (other than deployment bonuses) at first term were the same for the Navy, higher for the Marine Corps, and lower for the Air Force. At second term, other services’ estimates were lower than for the Army.

Bonuses were also found to positively influence the length of the term chosen by service members facing a reenlistment decision. For those at the end of their second term, the effect was smaller at high bonus levels, most likely because bonuses are subject to caps, meaning that above some reenlistment term length, signing up for a longer term earns no further bonus.

Flexibility. As mentioned, the Army used bonuses quite broadly. However, there was some variation in bonuses across occupational skills and terms of enlistment (or reenlistment). For example, in 2008, fire support specialists received enlistment bonuses over six times as great as those received by armament repairers. Also, the frequency with which the Army adjusted its bonuses over the years suggests proactive responsiveness to changing conditions.

Cost-Effectiveness. The NDRI researchers estimated that enlistment bonuses are more cost-effective than pay but less so than recruiters as a means to expand the market for the Army. The cost per additional high-quality recruit was estimated to be $44,900 for bonuses, compared with $57,600 for pay and $33,200 for recruiters.

In the case of reenlistment bonuses, the researchers arrived at ranges of estimates based on varying assumptions. For bonuses (other than deployment bonuses), the cost in bonuses of an additional person-year of service at the first reenlistment point was $24,900 for the Army, $28,000 for the Navy, $17,000 for the Marine Corps, and $70,200 for the Air Force. The numbers at second term were higher for all but the Army, reflecting lower responsiveness to bonuses: $23,900 for the Army, $38,900 for the Navy, $77,500 for the Marine Corps, and $101,900 for the Air Force.

Other services also demonstrated flexibility in bonus numbers and sizes. Percentages of reenlisting marines and airmen receiving bonuses varied between 20 percent and 80 percent over the period from 1996 to 2007, while average sizes of reenlistment bonuses varied by twofold or so. All told, the large variations in bonuses over time in each service indicate that this compensation tool, unlike basic pay and the various allowances paid by the services, can be turned on and off relatively easily and quickly.


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