ECONOMETRIC ANALYSIS OF 2003 DATA ON THE POST-SERVICE EARNINGS OF MILITARY RETIREES: METHODOLOGY REPORT

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Executive Summary

This study describes the methodology used to evaluate work effort decisions and estimate earnings of military retirees based on data from the 2003 Survey of Retired Military (2003 SRM), supplemented with data on the civilian non-institutional population from the March 2003 Current Population Survey Annual Social and Economic Supplement (CPS-ASEC).

This report describes how the estimation datasets were constructed from these two data sources and describes the econometric methodology in detail, including the definition of alternative models designed to address empirical and data issues. The analysis datasets for the 2003 SRM and 2003 CPS-ASEC are discussed first, followed by a description of the basic model used throughout the analysis for both military retirees and comparable civilian workers. Application of this basic model estimate military retiree earnings and results of alternative model estimates are described next. Finally, Appendixes A-D include details about analysis datasets and regression results for enlisted and officer retirees and comparable civilians.

Data

The 2003 SRM provides detailed information on the personal characteristics and employment history of military retirees (DMDC, 2004a). It was distributed to a sample of 53,100 military retirees. Of these, 32,275 surveys were returned. The analysis dataset draws from these responses, although a number of observations were deleted because of missing variables. The final analysis datasets included 18,082 enlisted retirees and 6,857 officer retirees. The dataset also includes information from respondents' service, VA, and retirement records.

The CPS-ASEC—conducted by the Bureau of the Census for the Bureau of Labor Statistics—includes personal and job-related information on civilians, their families, and households. The CPS-ASEC sample includes a total of 216,424 person records. The analysis dataset was obtained from the civilian sample by excluding person records where respondents were less than 38 years of age, non-high school graduates, female, military retirees, or reported negative earnings. These exclusions resulted in an analysis sample of 36,027 observations.

Model Description

An individual's earnings depend on a variety of factors, including personal attributes (e.g., educational attainment level), work experience, and geographic location. The post-service earnings of military personnel may also be affected by service-related disabilities. This study focuses, in particular, on the impact of disabilities on the earnings of military retirees.

Typically, an earnings model is estimated for full-time workers. This model, however, ignores a potential source of bias because earnings are not observed for individuals who choose part-time over full-time work. The potential earnings of part time workers may be lower than the

observed earnings of full-time workers. This could result in biased model estimates and lead to erroneous conclusions about the earnings gap between retirees and their civilian cohorts, as well as the impact of disabilities on post-service earnings. The estimation technique used in this study corrects for this potential "selection" bias in the earnings equation by using a two-step procedure first proposed by Heckman (1979). The first stage estimates the probability an individual will work full time. In the second stage, information from this equation is incorporated into a non-linear regression model of earnings by including a variable that depends on the estimate of the probability of full-time work in the first stage. This variable, hereafter referred to as LAMDA, controls for the effects of selection bias in the earnings equation.

Results

The two-stage estimation process used in this study begins with a model of the factors affecting the probability of an individual working full time. This information is subsequently included in the second-stage earnings model that measures the effects of age, demographics, and other factors on annual earnings. Estimates for officers in the 2003 SRM and the civilian CPS-ASEC sample show evidence of bias (i.e., the coefficient on the control variable is statistically significant). Basic earnings model results are presented below and compared to several alternative model definitions.

Alternative Definitions of the Age Variable

The basic earnings equation includes both AGE and the square of the age variable. With this specification, age-earnings profiles show earnings increasing across a portion of the post-service career; eventually, however, earnings decline. An alternative model uses only AGE in the earnings equation. This model does not work as well as the basic equation. In all three alternative equations, the coefficient on AGE becomes negative, but remains significant. Overall fit of the equation is largely unaffected.

Age is treated differently in the basic choice equations for the three samples. For the enlisted sample, age is represented by categories and assigned a value of 1 if the respondent's age falls in a given category, 0 otherwise. The officer equation uses the AGE variable by itself and the civilian choice equation uses both AGE and AGESQ. An alternative definition of the officer choice equation using a categorical age variable has little effect on the significance or magnitude of other explanatory variables. However, when the results of this equation are used as the first-stage correction in the earnings equation, both the AGE and AGESQ variables become insignificant.

The alternative definition of age in the civilian choice equation also has an unexpected effect on the civilian earnings equation. When AGESQ is omitted from the equation the coefficients on both AGE and AGESQ are significant in the earnings equation, but their signs are reversed. These results would yield a U-shaped age-earnings profile, the opposite of results found uniformly throughout the literature on earnings.

The Effects of Geographic Variation

Two models were estimated to account for the effects of geographic variation. In the baseline equation, URBAN takes the value of one if the household is located in an area with a

population greater than or equal to 10,000, 0 otherwise. 2003 SRM respondents' zip codes were matched to the corresponding Rural-Urban Commuting Areas (RUCA) code.

The alternative choice and earnings equations use region category variables (EAST, WEST, and SOUTH) to indicate in which part of the country the household was located (as compared to MIDWEST). In both officer equations, two of the three region category variables are insignificant. In the enlisted choice equation, none of the regional variables are significant. In the enlisted earnings equation, two of the three region variables are insignificant. For civilians, all of the region variables in the choice equation are negative, though only the coefficient for the variable WEST is significant. In the civilian earnings equation, WEST is again the only significant region variable. The addition of the region category variables also causes other variables to lose significance.

The Effects of Proximity to Military Facilities

Because retirees are eligible for non-cash benefits available only at military facilities (e.g., commissary and exchange shopping, direct medical care), location decisions may be affected by proximity to such facilities, whether they are in low wage areas or not. Location may therefore explain some gaps in retiree earnings relative to civilian earnings.

The baseline model uses a constructed variable (MEDLOC) that has a value of one if the retiree indicated that proximity to military medical facilities was important or very important, and a zero otherwise. An alternative model includes dummy variables indicating self-reported distance from a military commissary in place of MEDLOC.

In both the officer choice and officer earnings baseline equations, MEDLOC is significant and negative, while in the alternative model definition the commissary variables are positive and have mixed significance. The inclusion of the commissary categorical variable causes the selection bias control variable LAMBDA to become insignificant. In the baseline enlisted choice equation, MEDLOC is negative and significant, while in the alternative choice equation all three of the commissary categorical variables are positive and significant. There is little effect on the earnings equation; in the baseline MEDLOC is not significant, and in the alternative only one of the commissary variables is significant.

Restricting the Comparison Group to Veterans

The civilian earnings model is estimated on two different samples. The baseline sample includes all males between the ages of 38 and 64. An alternative sample further restricts this group to individuals with prior military experience, consistent with previous empirical research. AGE, AGESQ, and LAMBDA all lose significance for the veteran's sample. In particular, neither AGE nor LAMBDA is still significant at the 0.05 level. The coefficients on several other explanatory variables also become less significant for the veterans sample.

Summary and Conclusions

This study identifies and evaluates alternative earnings and employment models for military retirees sampled in the 2003 Survey of Retired Military. The methodology uses a two-stage estimation procedure that is sensitive to the definition of age in the employment choice

equation. The only equation yielding results for the civilian sample consistent with previous studies includes both AGE and AGESQ. The equations that fit best for officers use AGE alone, while the best enlisted equations use categorical age variables.

Further research is warranted to determine why veteran-only samples of civilians do not yield plausible results. Previous research consistently relied on veteran-only samples, primarily to control for the basic employability screening implied by successful entry into the military. However, these studies are based on earlier data in which a large proportion of the working age male population served in the military. Remaining veterans in the CPS-ASEC sample are largely from the all-volunteer era. These veterans make up a smaller proportion of the general workforce and may be more homogeneous in characteristics and workforce experience.

Another area for potential future research is an examination of trends in the retiree wage gap. This study, in contrast to previous work, shows no gap between retirees and those who did not complete a full career in the military. Longitudinal data on retirees' post-service earnings would be valuable to isolate cohort effects and determine whether military experience is becoming more relevant to subsequent civilian employment.

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Section 1: Introduction

Historically, military retirees could expect lower earnings than those of otherwise comparable civilians upon retirement. Previous research has identified the likely sources of this discrepancy and has shown that this earnings "gap" disappears over time as retiree's annual earnings catch up to the annual earnings of their civilian counterparts (Borjas and Welch, 1986). The military retirement system is designed, in part, to offset this gap. There has been a great deal of attention focused recently on the question of veterans' disability compensation for military retirees. At issue is whether veterans who were disabled while in the military earn less than otherwise comparable retirees without disabilities. If so, the retiree earnings gap would be even greater for disabled retirees. Because of this possibility, Congress has acted to gradually repeal the prohibition against concurrent receipt of military retired pay and disability compensation from the Department of Veterans Affairs (VA). The basic question for policy makers is what effect do disabilities have on both the decision to work full time and on earnings.

This study describes the methodology for econometric analysis of work effort decisions and earnings of military retirees based on data from the 2003 Survey of Retired Military (2003 SRM[DMDC, 2004]), supplemented with data from on the civilian non-institutional population from the March 2003 Current Population Survey Annual Social and Economic Supplement (CPS-ASEC). This report describes how estimation datasets were constructed from these two data sources and also defines alternative econometric models that address specific empirical and data issues. The analysis datasets for the 2003 SRM and 2003 CPS-ASEC are summarized in Section 2. Section 3 describes a baseline model applied throughout the analysis for both military retirees and comparable civilian workers. Section 4 shows how this model predicts military retiree earnings, including the effects of disabilities. Alternative variations of this baseline model are also discussed. Appendixes E and B include the 2003 SRM Survey instrument and 2003 CPS-ASEC Data Dictionary elements for civilian analysis variables. Detailed results of the baseline and alternative model definitions for enlisted retirees, officer retirees, and comparable civilians are in Appendixes B, C, and D, respectively.

Section 2: Construction of the Analysis Datasets

2003 SRM Analysis Datasets

The 2003 SRM (DMDC, 2004) provides detailed information on the personal characteristics and employment history of military retirees. The data provided also include information from respondents' service, VA, and retirement records. The 2003 SRM was distributed to a sample of 53,100 military retirees. Of these, 32,275 surveys were returned (Kroeger, Flores-Cervantes, Jones, & Wilson, 2004). Appendix E contains a copy of the survey questionnaire

The first step in the creation of the estimation datasets was to divide the respondents into officer and enlisted samples using the variable PAYGRADE. Records with PAYGRADE equal to E01 through E09 were allocated to the enlisted sample, and all other records were allocated to the officer sample.

Next, records with a missing value for sex or race were also eliminated. All early retirees were deleted by ensuring that years of service were greater than 19. Finally, any individual who was exclusively self-employed was also deleted. (An individual was defined as exclusively self-employed if the variable RE022 = 4.) For the earnings estimates, the samples were further pared down to include only those who were employed full time (RE028R = 4). Table 1 describes the 2003 SRM sample and summarizes the selections made for the analysis. A number of variables were constructed from 2003 SRM data for use in the analysis. Table 2 provides a complete list of the variables included in the analysis datasets.

Table 1.

Definition of 2003 SRM Sample

	Number of Observations		
Sample	Enlisted	Officer	Total
Total Sample Frame	41,174	11,925	53,099
Excluding nonrespondents	23,680	8,594	32,274
Excluding missing race and sex	23,011	8,400	31,411
Excluding YOS at retirement < 20	19,282	7,708	26,990
Excluding age < 38	19,282	7,708	26,990
Excluding self-employed	18,082	6,857	24,939
Full-time employed only ^a	7,988	3,062	11,050

^aSample used for estimation of earnings equation.

Table 2. Variables in SRM Analysis File

variables in SKM Analysis File				
Variable Name	Definition			
FULLTIME	1 if $re028r = 4$			
LOGEARN	log of re056ra			
AGE	Age in years as of 1 January 2002			
FEMALE	1 if SRSEX = 2			
MINORITY	1 if Race2 = 2			
MARRIED	1 if SRMARST = 1			
DEPKIDS	1 if $re115 = 2$			
URBAN	1 if respondent lives in an urban area or large town (pop. > 10,000); used			
	Census data and mapped it to re0103			
EAST	1 if Census $4 = 4$			
WEST	1 if Census $4 = 2$			
SOUTH	1 if Census $4 = 3$			
MIDWEST	1 for all other valid Census4 responses			
DIS0020	1 if CDISAB = 2			
DIS3050	1 if CDISAB = 3			
DIS6080 ·	1 if CDISAB >3 and CDISAB < 7			
DIS90100	1 if CDISAB > 6			
SELFDIS	1 if $re025 = 1$			
ARMY	1 if XSVC = 1			
NAVY	1 if XSVC = 2			
USMC	1 if XSVC = 3			
USAF	1 if XSVC = 4			
SOMECOLL	1 if $re107c > 3$ and $re107c < 7$			
BACH	1 if $re107c = 7$			
BACHPLUS	1 if re107c > 7			
MANAGER	1 if cenoc00b < 100			
PROF	1 if cenoc00b > 99 and cenoc00b < 360			
SERV	1 if cenoc00b > 359 and cenoc00b < 470			
SALES	1 if cenoc00b > 469 and cenoc00b < 500			
OFFICE	1 if cenoc00b > 499 and cenoc00b < 600			
FARM	1 if cenoc00b > 599 and cenoc00b < 620			
TRANSPRT	1 if cenoc00b > 899 and cenoc00b < 980			
BLUECOLL	1 if cenoc00b > 619 and cenoc00b < 900			
MEDLOC	1 if $re018 = 3$			
HH_INCOME	re052ra + re053ra + re054ra + re055ra + re056ra + re057ra + re058ra + re059ra			
OTHER	HH_Income – re056ra			
RET20	1 if SRVYRS = 20			
RET2126	1 SRVYRS > 20 and SRVYRS < 27			
RET27UP	1 SRVYRS > 26			
O4O5	1 if PAYGRADE = 004 or 005			
O6PLUS	1 if PAYGRADE = 006, 007, 008, 009, 010 or 011			
WARRANT	1 if PAYGRADE = W02, W03, W04, OR W05			
E1E4	1 if PAYGRADE = E01, E02, EO3 or EO4			
E5E6	1 if PAYGRADE = E05 or EO6			
E7E9	1 if PAYGRADE = E07, E08, or E09			

2003 CPS-ASEC Analysis Dataset

The military retirees were compared to a dataset of civilians extracted from the *March* 2003 CPS-ASEC.¹ The Current Population Survey (CPS) is a monthly survey conducted by the Bureau of the Census for the Bureau of Labor Statistics and is used to collect labor force data on a sample of households throughout the country. The CPS-ASEC survey, conducted annually in March, collects data on work experience, income and non-cash benefits in addition to that collected in the monthly CPS. The survey data base consist of household records, family records, and person records compiled for a random sample of housing units in the U.S. It includes 99,000 households made up of the standard CPS monthly sample of 60,000 households, 4,500 Hispanic households added specifically for the CPS-ASEC March supplement, and another 34,500 households sampled to improve state-level estimates of children's health insurance coverage (BLS [2003]). Data for the civilian sample used in this study came from the 216,424 person records in the 2003 CPS-ASEC.

One key difference between the CPS-ASEC sample and the 2003 SRM sample used for this study is that only males are included in the former. Female labor-force participation in the civilian population is typically more sporadic than male participation (e.g., some females leave the labor force for child-rearing) and the CPS-ASEC data do not provide information on the cumulative labor-force experience of females. In the 2003 SRM sample, the females who are included did not leave the labor force for extended periods, at least until they retired from active duty (a minimum of twenty years).

The CPS-ASEC sample was first partitioned into three separate datasets, according to record type (person, household, or family). Person records had to meet the following five criteria to be included in the estimation dataset:

- Respondent is over the age of 37 (A_AGE > 37)
- Respondent is male (A_SEX=1)
- Respondent has completed high school (A_HGA > 38)
- Respondent is not collecting retirement benefits from armed forces (RET_SC1 and RET_SC2 ≠ 3)
- Respondent has positive earnings (PEARNVAL > 0)

The records that passed this screening were then matched to the appropriate household and family records using unique household and family identifiers available on each person record. Table 3 summarizes the civilian sample based on these exclusions.

¹ Prior to 2002, this survey was known as the CPS March Demographic Supplement.

Table 3.

Definition of CPS-ASEC Sample

Sample	Number of Observations	
Total Sample Frame	216,424	
Excluding age < 38	93,274	
Excluding non-high school graduates	78,346	
Excluding females	36,927	
Excluding military retirees	36,372	
Excluding respondents with earnings < 0	36,027	
Full-time employed only ^a	22,310	

^aSample used for estimation of earnings equation.

Like the 2003 SRM datasets, the CPS-ASEC analysis dataset contains a number of constructed variables. A complete list of variables for this dataset is presented in Table 4.

Section 3: Model Description

Earnings are a function of personal and service characteristics. Earnings depend, as well, on the factors that affect one's decision to participate in the workforce. For instance, one might expect that those who do not have very good civilian earnings opportunities are least likely to find jobs with wages high enough to cause them to enter the labor force. This would mean that a variable, call it "employability", is correlated with *observed earnings* (because it affects labor force participation decisions) but is itself unobserved and would therefore be reflected in the random error term of an earnings equation. Failure to correct for this "employability" factor would bias regression estimates of an earnings model and overstate predicted earnings. This effect is referred to as *selection bias* or *incidental truncation* in the econometrics literature. Heckman (1979) first analyzed the problem and proposed a simple, two-stage procedure that corrects for this bias.³

The first step is a model of labor-force participation. The probability that an individual will work full time depends on personal attributes, including education, age, total household income, number of dependent children, and marital status. If these independent variables are denoted by w, their choice equation can be specified as

$$\Pr[FULLTIME] = \Phi(\gamma'w),$$

² Economists refer to the wage level below which the individual chooses not to work as the individual's reservation wage.

³ Heckman (1979) shows how the decision to participate in the labor force can bias predicted earnings. The discussion in this section follows Greene (1990), p. 744.

⁴ The discussion in this section follows Greene (1990), p. 744.

Table 4. Variables in CPS-ASEC Analysis File

Variable Name	Definition
AGEUND45	1 if A_AGE <45
AGE4554	1 if (A_AGE >44) and (A_AGE <55)
AGE5564	1 if (A_AGE >54) and (A_AGE <65)
AGE65UP	1 if A_AGE >64
SOMECOLL	1 if $(A_HGA \ge 40)$ and $(A_HGA \le 42)$
ВАСН	1 if $(A_HGA = 42)$
BACHPLUS	1 if $(A_HGA \ge 44)$ and $(A_HGA \le 46)$
MINORITY	1 if (PRDTRACE \geq 02) and (PRDTRACE \leq 21)
AGESQ	(A_AGE^2)
MARRIED	1 if $(A_MARITL \ge 1)$ and $(A_MARITL \le 3)$
WITHKIDS	1 if (HUNDER $18 \ge 1$)
EAST	1 if $(GDIV = 1)$ or $(GDIV = 2)$
SOUTH	1 if (GDIV \geq 5) and (GDIV \leq 7)
WEST	1 if $(GDIV = 8)$ or $(GDIV = 9)$
EARNLN	ln(PEARNVAL)
FULLTIME	1 if $(A_HRS1 > 34)$
TOTHHINC	(HEARNVAL + HTOTVAL)
REASONFORNW	1 is (RSNNOTW = 1)
VETTYPE	$1 \text{ if } (VET_TYP1 = 1)$
VETERAN	1 if $(A_VET < 6)$ and $(A_VET > 0)$
DISWORK	$1 \text{ if } (DIS_HP = 1)$
URBAN	$1 \text{ if (HMSA_R = 1)}$
OTHER	(TotHHInc – PEARNVAL)
MANAGER	1 if $(A_DTOCC \ge 0)$ and $(A_DTOCC \le 3)$
PROF	1 if $(A_DTOCC \ge 3)$ and $(A_DTOCC \le 10)$
SERVICE	1 if $(A_DTOCC \ge 11)$ and $(A_DTOCC \le 15)$
SALES	$1 \text{ if } (A_DTOCC = 16)$
OFFICE	$1 \text{ if } (A_DTOCC = 17)$
FARM	$1 if (A_DTOCC = 18)$
TRANSPT	$1 if (A_DTOCC = 22)$
BLUECOLL	1 if $(A_DTOCC \ge 19)$ and $(A_DTOCC \le 21)$
WSALVALLN	ln(WSAL_VAL+1)

which can be estimated as a probit equation. A probit equation is a discrete choice model that assumes a normal distribution for the error term. The dependent variable represents the probability of the choice being made. In this case, the dependent variable measures the outcome decision whether to work full time or not. It takes a value of one if the person has chosen to work full time and zero if he or she has chosen not to work full time.

For the selected sample (i.e., full-time workers), a variable commonly referred to in econometric literature as the inverse Mills ratio was computed as follows, where φ is the standard normal probability distribution and Φ is the standard normal cumulative distribution

$$\hat{\lambda}_i = \frac{\varphi(\gamma'w)}{\Phi(\gamma'w)}.$$

The earnings equation incorporates this information from the choice equation as a separate explanatory variable. The earnings model is defined as a log-earnings equation of the form

$$\ln(W_i) = X_i \alpha + M_i \beta + \hat{\lambda}_i \beta_{\lambda} + \varepsilon_i.$$

 W_i represents the annual earnings from the individual's primary job; X_i are the individual's personal attributes affecting earnings; and M_i are the retiree's service characteristics affecting earnings. Because the earnings of non-full-time workers are expected to be lower than those of full-time workers, we expect $\beta_{\lambda} < 0$. This second-stage equation is estimated using Ordinary Least Squares regression.

Section 4: Results

The multivariate analysis of the effects of disability and other factors on retirees' post-service earnings uses a two-stage estimation process to control for potential bias resulting from the relationship between factors affecting an individual's decision to work full time, and the factors helping to determine the wages the individual would receive if he or she worked full time. Wages are observed only for full-time workers; the potential wages of individuals who chose not to work full time may differ systematically from these observed wages.

This section of the report provides the detailed results for baseline models of the decision to work full time and earnings. Additionally, the results of alternative model and variable definitions are reported and compared to the results for the baseline models. The alternatives addressed include:

- alternative definitions of the AGE variable
- measuring geographic variation in earnings and employment
- effects of proximity to military facilities
- restricting the comparison group to veterans only

Detailed results for the enlisted 2003 SRM alternatives are reported in Appendix B, while the officer results are detailed in Appendix C. Tables displaying alternative results for the CPS-ASEC sample appear in Appendix D.

Basic Model

Each model consists of two equations: a choice equation in which the dependent variable is the probability of working full time, and an earnings equation. Table 5 presents the results for the basic choice equations for the enlisted and officer samples of the 2003 SRM. Table 6 reports the results of the choice equation estimation for the CPS-ASEC sample. Earnings equation results for the basic earnings models are presented in Table 7 and Table 8.

Table 5.

Baseline Choice Equation Results for Enlisted and Officer 2003 SRM Samples

	Of	Enlisted		
Variable	Coefficient	Standard Error	Coefficient	Standard Error
Constant	6.438420*	0.2252	0.628167*	0.0577
AGE	-0.111070*	0.0032		
AGEUND44			0.184270*	0.0482
AGE5564			-0.562734*	0.0316
AGE65UP			-1.941207*	0.0400
FEMALE	-0.873759*	0.0933	-0.264811*	0.0587
MINORITY	0.035626	0.0543	-0.091679*	0.0316
MARRIED	0.251178*	0.0625	0.270930*	0.0322
DEPKIDS	0.037978	0.0514	0.151734*	0.0304
URBAN	0.411874*	0.0679	0.230935*	0.0375
DIS0020	-0.042435	0.0589	-0.006736	0.0391
DIS3050	-0.135244 **	0.0549	-0.124719*	0.0334
DIS6080	-0.349159*	0.0646	-0.673164*	0.0392
DIS90100	-0.781656*	0.0813	-1.221719*	0.0486
NAVY	-0.142362 **	0.0555	-0.025943	0.0347
USMC	-0.105018	0.0918	0.007954	0.0649
USAF	-0.134511*	0.0516	0.021118	0.0316
SOMECOLL	-0.204617 **	0.0897	0.084099*	0.0286
BACH	-0.056880	0.0808	0.110733 **	0.0455
BACHPLUS	0.086745	0.0620	0.337396*	0.0504
MEDLOC	-0.139573*	0.0420	-0.058509 **	0.0260
OTHER	-0.000002*	0.0000	-0.000002*	0.0000
RET2126	0.181983*	0.0474	0.084579*	0.0292
RET27UP	0.196076*	0.0663	0.180775 *	0.0518
0103	0.024886	0.0834		
O6PLUS	0.122899 **	0.0585		
WARRANT	0.056515	0.0721		
E1E4			-0.679725	0.4673
E5E6			-0.144428*	0.0325
Likelihood Ratio χ ²	2803.91		6204.82	
D.F.	23		24	
Pseudo R ²	0.3869		0.3564	

*Significant at the 0.01 level; "Significant at the 0.05 level; "Significant at the 0.10 level

Table 6.
Choice Equation Results for CPS-ASEC Sample

		Standard
Variable	Coefficient	Error
Constant	-3.823344*	0.2188
AGE	0.195858*	0.0081
AGESQ	-0.002293*	0.0001
MINORITY	-0.189034*	0.0202
MARRIED	0.335607*	0.0186
FOWNU18	0.065683*	0.0092
FRELU6	-0.077514*	0.0191
URBAN	0.070929*	0.0176
SOMECOLL	0.072760*	0.0185
BACH	0.291315*	0.0210
BACHPLUS	0.327126*	0.0246
VET_VAL	-0.000032*	0.0000
VETERAN	-0.044563 **	0.0180
Likelihood Ratio χ ²	10718.89	
D.F.	12	
Pseudo R ²	0.2574	1 **** 0:: 6:-

^{*}Significant at the 0.01 level; **Significant at the 0.05 level; ***Significant at the 0.10 level

Table 7.

Earnings Equation Results for Enlisted and Officer 2003 SRM Samples

	Enlist	Enlisted		Officer	
		Standard		Standard	
Variable	Coefficient	Error	Coefficient	Error	
Constant	7.675188*	0.9745	8.352686*	1.5115	
AGE	0.111583*	0.0370	0.127095**	0.0588	
AGESQ	-0.001214*	0.0004	-0.001759*	0.0006	
	Demogr	aphic			
FEMALE	-0.327204*	0.0791	-0.604294*	0.2018	
MINORITY	-0.163978*	0.0403	-0.016169	0.0624	
MARRIED	-0.105995**	0.0458	0.108685	0.0926	
DEPKIDS	-0.042207	0.0370	-0.037572	0.0548	
URBAN	0.161988*	0.0527	0.341137*	0.1171	
	Educa	tion			
SOMECOLL	0.087321**	0.0383	-0.156992	0.1211	
BACH	0.054104	0.0584	0.031620	0.1017	
BACHPLUS	0.139796**	0.0639	0.055541	0.0801	
	Occupa		•		
MANAGER	0.200365*	0.0522	0.469291*	0.0974	
PROF	0.203705*	0.0512	0.319738*	0.0988	
SERV	-0.162227*	0.0559	0.130191	0.1368	
SALES	-0.375119*	0.0761	-0.405213*	0.1537	
OFFICE	-0.093354***	0.0543	-0.009703	0.1333	
FARM	-0.118471	0.3034	-0.270584	0.6012	
TRANSPRT	-0.145090**	0.0672	0.452274*	0.1385	
	Disabi				
DIS0020	-0.046206	0,0448	-0.029899	0.0650	
DIS3050	-0.078552***	0.0409	-0.250796*	0.0661	
DIS6080	-0.117044	0.0714	-0.233847**	0.1028	
DIS90100	-0.323211**	0.1323	-0.785276*	0.2147	
MEDLOC	-0.026992	0.0334	-0.204874*	0.0560	
	Servi				
NAVY	0.110834**	0.0434	-0.082514	0.0679	
USMC	0.106870	0.0806	-0.074172	0.1093	
USAF	0.181327*	0.0404	-0.128906**	0.0648	
RET2126	-0.046010	0.0375	0.117875***	0.0616	
RET27UP	0.122497	0.0748	0.219449**	0.0907	
E1E4	-3.661470*	0.7086			
E5E6	-0.224021*	0.0430			
0103			-0.063755	0.0909	
O6PLUS			0.395321*	0.0751	
WARRANT			-0.195501**	0.0842	
OTHER	0.000005*	0.0000	0.000000	0.0000	
LAMBDA	-0.044963	0.1236	0.892587**	0.3848	
Adjusted R ²	0.059		0.074		

Note. The omitted groups in the dummy variables are Nonminority, Unmarried, NoKids, Rural, No VA Disability Rating, Army, High School Diploma or less, Blue Collar, Retired with 20 YOS, Retired as E7 or above (Enlisted), and Retired as O4-O5 (Officer) Significant at the 0.01 level; "Significant at the 0.05 level; "Significant at the 0.10 level"

Table 8.

Earnings Equation Results for CPS-ASEC Sample

Variable	Coefficient	Standard Error
Constant	3.464002	2.4333
AGE	0.229627 **	0.0935
AGESQ	-0.002902*	0.0010
	Demographic	
MINORITY	-0.074466	0.0808
URBAN	0.548239*	0.0528
MARRIED	0.357988*	0.1203
FOWNU18	0.003246	0.0258
FRELU6	-0.008119	0.0493
	Education	
SOMECOLL	0.278226*	0.0566
BACH	0.712998*	0.1022
BACHPLUS	0.682692*	0.1206
	Occupation	
MANAGER	-0.198963*	0.0616
PROF	0.073542	0.0687
SERVICE	0.022696	0.0781
SALES	-0.392779*	0.0708
OFFICE	0.430145*	0.0920
FARM	-0.539295 **	0.2706
TRANSPT	0.297066*	0.0779
	Other	
VET_VAL	-0.000015	0.0000
DISWORK	-0.696833*	0.1692
OTHER	0.000005*	0.0000
VETERAN	0.245337*	0.0520
LAMBDA	1.472765 **	0.6035
Adjusted R ²	0.050)

Note. The omitted groups in the dummy variables are Nonminority, Unmarried, Rural, High School Diploma or less, and Blue Collar. *Significant at the 0.01 level; **Significant at the 0.10 level

Definitions of the Age Variable

In the basic earnings equation, age is represented by both AGE and AGESQ. This defines a nonlinear relationship between age and the log of earnings. This specification yields age-earnings profiles that show earnings initially increasing during retirees post-service careers, reaching a maximum and then eventually declining. An alternative equation definition uses only AGE in the earnings equation. This alternative does not work as well as the basic equation. In all three alternative equations, the coefficient on AGE is positive and statistically significant. In the enlisted equation, the coefficient on the selection bias control variable LAMBDA is statistically significant (see Table 10) but the coefficient on LAMBDA in the officer equation (Table 15) is insignificant. Likewise, the coefficient on LAMBDA in the civilian equation (Table 25) is statistically insignificant.

For the full-time work choice equations, the effect of age is defined differently for each of the three samples. For the enlisted sample, age categories are used. The officer equation uses the continuous variable AGE, and the civilian choice equation uses both AGE and AGESQ. Table 16 shows that an alternative of the officer choice equation with age categories has little effect on the significance or magnitude of other explanatory variables. The R² statistic decreases slightly (from 0.39 to 0.37) for the alternative model. However, when the results of the age category equation are entered as the first-stage correction in the earnings equation, both the AGE and AGESQ variables become insignificant (see Table 17). In addition, LAMBDA becomes negative and statistically insignificant.

For both of the age variables, R² decreases and the veteran variable becomes significant at the .01 level for a t-test (Table 24). Using these alternative definitions of the age variables in the civilian choice equation, however, affects the earnings equation estimates. Table 26 shows the earnings equation results for the civilian sample when AGESQ is omitted from the choice equation. Note that, while the coefficients on both AGE and AGESQ are statistically significant, their signs are reversed. These results would yield a convex age-earnings profile rather than one that increases to a maximum and then declines, as predicted by human capital theory and confirmed by previous research.

The Effects of Geographic Variation

Two equations are estimated to evaluate the effects of geographic variation. In the baseline equation, URBAN takes the value of one if the household is located in an area with a population greater than or equal to 10,000, 0 otherwise. 2003 SRM respondents' zip codes were matched to the corresponding Rural-Urban Commuting Areas (RUCA) code, as defined in Table 9.

The Economic Research Service of the U.S. Department of Agriculture and the University of Washington jointly developed the RUCA classification system. For the 2003 SRM sample, URBAN dwellers were those residing in a zip code with a RUCA code of 6 or lower. For the CPS-ASEC sample, URBAN was defined as residing in a Metropolitan Statistical Area (HMSA-R = 1).

Table 9.

Rural-Urban Commuting Areas (RUCAs)

RUCA	Definition
1	Metropolitan-area core: primary flow within an urbanized area (UA)
2	Metropolitan-area high commuting: primary flow 30% or more to a UA
3	Metropolitan-area low commuting: primary flow 5% to 30% to a UA
4	Large town core: primary flow within a place of 10,000 to 49,999
5	Large town high commuting: primary flow 30% or more to a place of 10,000 to 49,999
6	Large town low commuting: primary flow 5% to 30% to a place of 10,000 to 49,999
7	Small town core: primary flow within a place of 2,500 to 9, 999
8	Small town high commuting: primary flow 30% or more to a place of 2,500 to 9,999
9	Small town low commuting: primary flow 5% to 30% to a place of 2,500 to 9,999
10	Rural areas: primary flow to a tract without a place of 2,500 or more

Source. U.S. Department of Agriculture (2004)

The alternative definition uses region categorical variables (EAST, WEST, and SOUTH) to indicate in which part of the country the household was located. MIDWEST is the omitted reference variable. In both officer equations (Table 18 and Table 19), two of the three region variables are insignificant. In addition, the pseudo R² in the alternative officer choice equation is slightly lower than in the baseline equation. For the enlisted choice equation (Table 11), none of the region variables are significant. In the enlisted earnings equation (Table 12), two of the three region variables are insignificant. In addition, the adjusted R² decreases slightly. In the case of the civilian choice equation (Table 27), all of the region variables are negative, though only the coefficient on WEST is significant. For the civilian earnings equation (Table 28), WEST is again the only significant regional variable. The addition of region variables also causes other variables to lose significance.

The Effects of Proximity to Military Facilities

The model also measures the effects of proximity to military facilities on wages and employment. Because retirees are eligible for non-cash benefits available only at military facilities (e.g., commissary and exchange shopping, direct medical care), some may choose to locate close to such facilities. In so doing, they may be locating in lower-wage areas. This location decision might explain some gaps in retiree earnings relative to non-retiree earnings.

The baseline model uses a constructed variable (MEDLOC) that has a value of one if the retiree indicated that proximity to military medical facilities was important or very important, and a zero otherwise. The alternative model includes categorical variables indicating self-reported distance from a military commissary in place of MEDLOC. These variables are derived

⁵ The modal group in a set of categorical dummy variables is typically omitted because it represents the baseline case or "typical" member of the sample. The discussion then focuses on marginal effects for all other groups relative to the typical case. Designating a category with a smaller number of observations as the omitted category would result in a higher sampling variance among estimated differences. This would increase the chance of significance tests missing true differences among categorical variables.

from the variable RE060R (Miles to drive one-way nearest military commissary from your residence). The RE060R variable is recoded into categorical variables as follows:

- COMM0010 10 miles or less
- COMM1120 11 to 20 miles
- *COMM2140* 21 to 40 miles

The regression model omits the variable for respondents who reported more than a 40-mile one-way commute to a military commissary.

In both the officer choice and officer earnings baseline equations (Table 20 and Table 21), MEDLOC is significant and negative, while in the alternative model the commissary variables are positive but sometimes insignificant. The inclusion of the commissary variables causes LAMBDA to become insignificant.

In the baseline enlisted choice equation, MEDLOC is negative and significant, while in the alternative choice equation (Table 13) all three of the commissary variables are positive and significant. There is little effect on the earnings equation; in the baseline MEDLOC is not significant, and in the alternative (Table 14) only one of the commissary variables is significant.

Restricting the Comparison Group to Veterans

The civilian model is estimated on two different samples. The baseline sample includes all male, non-retirees between the ages of 38 and 64. The baseline sample further restricts this group to individuals with prior military experience, which is consistent with previous empirical research. AGE, AGESQ, and LAMBDA all lose significance when the sample is restricted to veterans, as shown in Table 23. In particular, neither AGE nor LAMBDA is still significant at the 0.05 level. Other variables affected by this restriction include DISWORK, MARRIED, SOMECOLL, BACHPLUS, MANAGER, FARM, and TRANSPT. MARRIED, BACHPLUS, and FARM become insignificant; SOMECOLL and DISWORK drop from the .01 significance level to the .05 level; and MANAGER and TRANSPT drop from the .01 level to the .10.

Section 5: Summary and Conclusions

The basic earnings and employment models in this study use a two-stage estimation procedure. This procedure is sensitive to the definition of age in the choice equation. The only choice equation yielding results consistent with expectations and previous research for the civilian sample includes both AGE and AGESQ. The officer equations worked best using AGE alone, while the enlisted equations used age categorical variables to best effect.

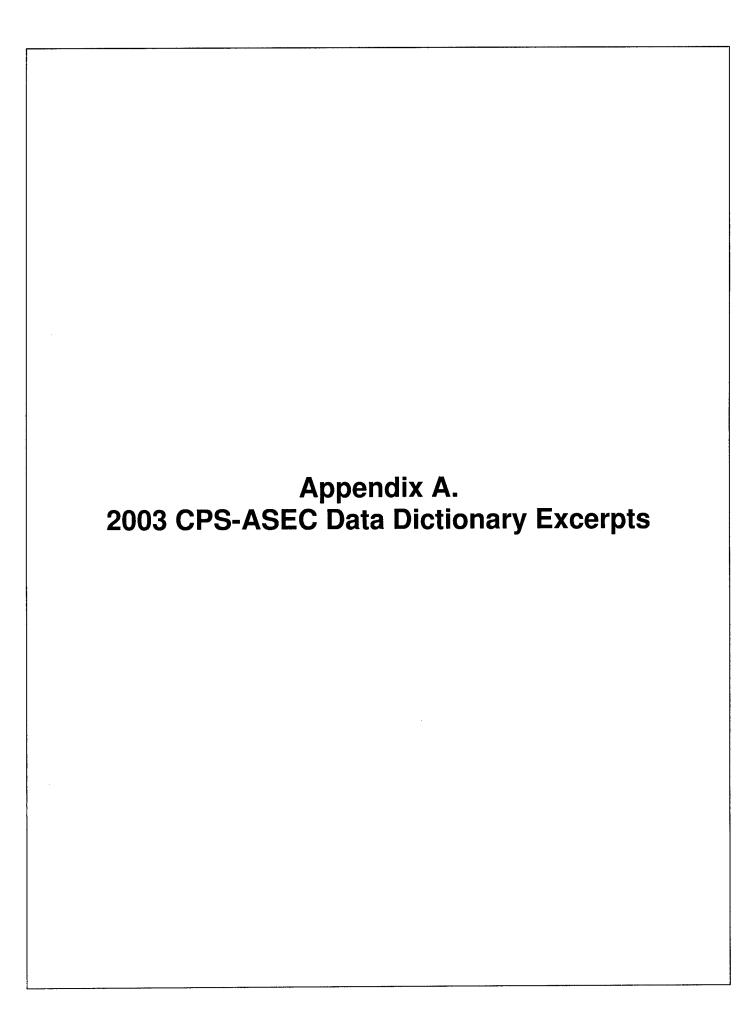
Further research is warranted to determine why veteran-only samples of non-retirees do not yield significant results. Previous research consistently relied on veteran-only samples in the civilian population, primarily to control for the basic employability screening implied by successful entry into the military. However, these studies were based on earlier data in which a large proportion of the male population of working age served in the military. Remaining veterans in the CPS-ASEC sample are largely from the all-volunteer era. These veterans make

up a smaller proportion of the general workforce and may, therefore, be more homogeneous in characteristics and workforce experience. Alternative methods to screen the civilian sample in order to achieve comparability with military retirees are needed.

Another area for potential future research is an examination of trends in the retiree wage gap. This study, in contrast to previous work, shows no gap between retirees and those who did not complete a full career in the military. Longitudinal data on retirees' post-service earnings would be valuable to isolate cohort effects and to determine whether military experience has become more relevant to subsequent civilian employment.

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2003 CPS-ASEC Data Dictionary Excerpts

HOUSEHOLD RECORD

SIZE BEGIN **DATA** D HRECORD 1 1 (1:1) U All households .Household record V 1 5 2 (00001:99999) D H-SEO Household sequence number V All households .Household sequence number V 00001-99999. 2 7 (00:00) D HHPOS Trailer portion of unique household ID. 00 for HH record. Same function in family record is field FFPOS (01-39) Same function in person record is PPPOS (41-79) 9 (1:5) **D HUNITS** Item 78 - How many units in the structure U H-HHTYPE = 11.1 Unit V 2.2 Units V 3.3 - 4 Units V 4 .5 - 9 Units 5.10+ Units V 2 10 (0:13) D H-FAMINC Family income NOTE: If a nonfamily household, income includes only that of householder. U All households -1 .Not in universe V V 00 .Less than \$5,000 01 .\$5,000 to \$7,499 V 02.\$7,500 to \$9,999 V 03 .\$10,000 to \$12,499 V 04 .\$12,500 to \$14,999 V 05.\$15,000 to \$19,999 V 06.\$20,000 to \$24,999 V V 07 .\$25,000 to \$29,999

- V 08 .\$30,000 to \$34,999
- V 09.\$35,000 to \$39,999
- V 10 .\$40,000 to \$49,999
- V 11 .\$50,000 to \$59,999
- V 12 .\$60,000 to \$74,999
- V 13 .\$75,000 and over

D H-RESPNM 2 12 (0:99)

Line number of household respondent

- V -1 .Not in universe (non-interview)
- V 00 .Blank or impossible
- V 01-99 Line number

D H-YEAR 4 14 (0:2999)

Year of survey

U All households

V 1999-2999.

D H-HHTYPE 1 20 (1:3)

Type of household

U All

- V 1.Interview
- V 2 .Type A non-interview
- V 3 .Type B/C non-interview

D H-NUMPER 2 21 (00:39)

Number of persons in household

U H-HHTYPE = 1

- V 00 .Noninterview household
- V 01-39 .Number of persons in HHLD

D HNUMFAM 2 23 (00:39)

Number of families in household

U H-HHTYPE = 1

- V 00 .Noninterview household
- V 01-39 .Number of families in HHLD

D GESTFIPS 2 42 (01:56)

State FIPS code

V 01-56 .State code

D HG-MSAC 4 44 (0000:9360)

MSA or PMSA FIPS code

V 0000 .Not MSA/PMSA or not identified

V 0060-9360 .MSA/PMSA code

D GECO 3 50 (000:810) FIPS County Code U All HHLD's in sample V 000 .Not identified V 001-810 .Specific county code V .(See Appendix D) .Note: This code must be V used in combination with V .a State Code (GESTFIPS V .or GESTCEN) in order to V uniquely identify a county D HG-CMSA 53 (00:97) 2 Specific CMSA code (See Appendix D) 00 .Not identified or V V .nonmetropolitan V 07. Min value 97. Max value D HMSA-R 1 57 (1:3) Modified metropolitan statistical area status code MSA residence U All V 1.MSA V 2.Non MSA V 3 .Not identifiable D HUNDER15 60 (00:39) 2 Recode Number of persons in household under age 15 U ITEM 79 = 1V 00 .None 01-39 .Number persons under 15 V D HH5TO18 2 68 (00:39) Recode Item 82 - Number of persons in household age 5 to 18 excluding family heads and spouses V 00 .None 01-39 .Number persons 5 to 18

D HTOTVAL

248 (-389961:23399766)

Recode - Total household income

U H-HHTYPE = 1

V 00000000 .None or not in universe

V Neg Amt .Income (loss)

V Pos Amt Income

D HEARNVAL 8 256 (-389961:11699883)

Recode - Total household earnings

U HINC-WS,HINC-SE or HINC-FR = 1

V 00000000 .None or not in universe

V Neg Amt .Income (loss)

V Pos Amt .Income

D HUNDER18 2 279 (00:39)

Recode - Number of persons in HHLD

under age 18

UH-HHTYPE = 1

V 00.None

V 01-39 .Number persons under 18

D HTOP5PCT 1 281 (0:2)

Recode - Household income percentiles

U H-HHTYPE = 1

V 0 .Not in universe (group quarters)

V 1.In top 5 percent

V 2.Not in top 5 percent

FAMILY RECORD

DATA

SIZE BEGIN

D FH-SEQ

5 2 (00001:99999)

Household sequence number

Matches H-SEQ for same household

U All families

V 00001-99999. Household sequence number

D FFPOS 2 7 (01:39)

Unique family identifier

This field plus FH-SEQ results in a unique family number for the file.

Same function in household record is

field HHPOS (00).

Same function in person record is PPPOS (41-79).

U All families

V 01-39 .Index for

V .family identifier

```
D FOWNU6
                     1
                            25 (0:6)
   Own children in family under 6
       0 .None, not in universe
\mathbf{V}
       1.1
\mathbf{v}
       2.2
V
V
       6.6+
D FOWNU18
                     1
                            27 (0:9)
  Number of own never married children
  under 18
  Primary family includes own children
  in related subfamily even if the child
  is the head of the subfamily.
U All families
       0. None, not in universe
V
V
       1.1
V
V
       9.9 or more
D FRELU6
                     1
                            28 (0:6)
  Related persons in family under 6
U All families
V
       0. None, not in universe
V
       1.1
V
       2.2
V
V
       6.6+
D FRELU18
                            29 (0:9)
  Related persons in family under 18
U All families
       0 .None, not in universe
V
\mathbf{v}
       1.1
V
       2.2
V
       9.9+
V
                            PERSON RECORD
DATA
                     SIZE BEGIN
D PH-SEQ
                     5
                            2 (00001:99999)
  Household seq number
```

U All

V 000001- .Household sequence number 99999. 7 (41:79) D PPPOS 2 Trailer portion of unique household ID. 00 for HH record. Same function in family record is field FFPOS (01-39) Same function in person record is PPPOS (41-79) D A-AGE 2 15 (00:80) Item 18d - Age U All V 00-80 .Years of age 1 D A-MARITL 17 (1:7) Item 18e - Marital status U All \mathbf{V} 1 .Married - civilian spouse V .present V 2 .Married - AF spouse present 3 .Married - spouse absent (exc V V .separated) V 4 .Widowed V 5 .Divorced V 6 .Separated 7 .Never married V D A-SEX 1 20 (1:2) Item 18g - Sex U All V 1.Male V 2 .Female 1 21 (0:6) D A-VET Veteran status 0. Children or Armed Forces V 1.Vietnam V 2 .Korean war V 3 .World War II V 4 .World War I V 5. Other service 6 .Nonveteran

2

Item 18h - Educational attainment

D A-HGA

24

22 (00:46)

```
U All
V
       00 .Children
       31 .Less than 1st grade
V
      32 .1st,2nd,3rd,or 4th grade
V
       33 .5th or 6th grade
V
       34 .7th and 8th grade
V
V
       35.9th grade
       36.10th grade
V
       37.11th grade
V
       38 .12th grade no diploma
V
      39 .High school graduate - high
V
         .school diploma or equivalent
V
      40 .Some college but no degree
V
      41 .Associate degree in college -
V
         .occupation/vocation program
V
      42 .Associate degree in college -
V
V
         .academic program
V
       43 .Bachelor's degree (for
V
         .example: BA,AB,BS)
V
       44 .Master's degree (for
V
         .example:MA,MS,MENG,MED,
         .MSW, MBA)
V
      45 .Professional school degree (for
V
         .example: MD,DDS,DVM,LLB,JD)
V
      46 .Doctorate degree (for
V
         .example: PHD,EDD)
V
D PRDTRACE
                     2
                            24 (01:21)
   Race
U All
V
      01. White only
       02 .Black only
V
V
       03 .American Indian,
         .Alaskan Native only (AI)
V
V
       04 .Asian only
       05 .Hawaiian/Pacific Islander
V
V
         only (HP)
V
       06 .White-Black
V
       07 .White-AI
V
       08 .White-Asian
V
       09 .White-HP
V
       10 .Black-AI
V
       11 .Black-Asian
V
       12 .Black-HP
V
       13 .AI-Asian
V
       14 .Asian-HP
```

- V 15 .White-Black-AI
- V 16 .White-Black-Asian
- V 17 .White-AI-Asian
- V 18.White-Asian-HP
- V 19 .White-Black-AI-Asian
- V 20.2 or 3 races
- V 21 .4 or 5 races

D PHF-SEQ 2 44 (01:39)

Pointer to the sequence number of own family record in household. (Care should be exercised when using these data as the related subfamilies are a part of the primary family and usually their characteristics come from the primary family record)

D A-HRS1 2 76 (00:99)

How many hrs did ... work last week at all jobs

U PEMLR=1

- V -1 .Not in universe
- V 00 .Children and Armed Forces
- V 01-99 .Number of hrs

D A-DTOCC 2 161 (00:23)

Detailed occupation recode See Appendix A2 for list of legal codes

U A-CLSWKR=1-7

- V 00 .Not in universe for children or
- V .Armed Forces

D RSNNOTW 1 170 (0:6)

Item 32 - What was the main reason ... did not work in 20..?

U WORKYN = 2

- V 0.Not in universe
- V 1 .Ill or disabled
- V 2 .Retired
- V 3. Taking care of home or family
- V 4.Going to school
- V 5 .Could not find work
- V 6.Other

D GEDIV 1 219 (1:9)

Recode - Census division of current

residence.

- V 1 .New England
- V 2 .Middle Atlantic
- V 3 .East North Central
- V 4 .West North Central
- V 5 .South Atlantic
- V 6 .East South Central
- V 7 .West South Central
- V 8 .Mountain
- V 9 .Pacific

D WSAL-VAL 6 243 (000000:686854)

Recode - Total wage and salary earnings (combined amounts in ERN-VAL, if ERN-SRCE=1, and WS-VAL)

U ERN-YN = 1 or WAGEOTR = 1

V 000000 None or not in universe

V 000001- .Wage and salary

V 686854.

D VET-TYP1 1 311 (0:2)

Item 60c - Disability compensation

U VET-YN = 1

V 0.Not in universe

V 1.Yes

V 2.No

D VET-VAL 5 317 (00000:29999)

Item 60e - How much did ... receive from veterans' administration during 20..?

U VET-YN = 1

V 00000 .None or not in universe

V 1-29999 .Veterans' payments

D DIS-HP 1 343 (0:2)

Item 62b - Does ... have a health problem or a disability which prevents work or which limits the kind or amount of work?

U P-STAT = 1 or 2

V 0.Not in universe

V 1.Yes

V 2.No

D RET-SC1 1 367 (0:8)

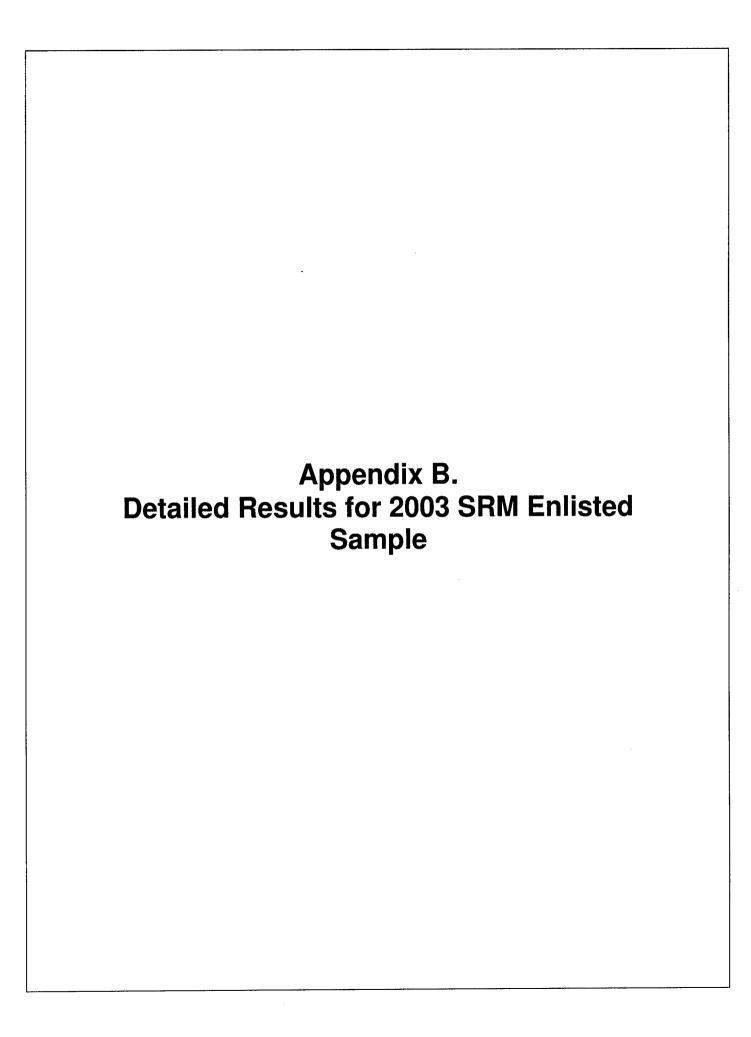
Item 65c - What was the source of

```
retirement income? Retirement income -
  Source 1
U RET-YN = 1
V
       0. None or not in universe
V
       1 .Company or union pension
       2 .Federal government retirement
V
       3 .US military retirement
V
V
       4 .State or local government
V
        .retirement
V
       5 .US railroad retirement
V
       6 .Regular payments from annuities
V
        .or paid insurance policies
       7 .Regular payments from ira,
V
        .KEOGH, or 401(k) accounts
V
       8 .Other sources or don't know
V
D RET-SC2
                    1
                           368 (0:8)
  Item 65c - Any other retirement income?
  Retirement income - Source 2 (See
  RET-SC1 for sources of retirement)
U RET-YN = 1
                           448 (-389961:999999)
D PEARNVAL
                    8
  Recode - Total person's earnings
  (WSAL-VAL, SEMP-VAL, FRSE-VAL)
V
       0. None or not in universe
```

Neg .Income (loss)

Pos .Income

V V



Detailed Results for 2003 SRM Enlisted Sample

Table 10.
Enlisted Earnings Equations: With and Without AGESQ

	Baseli	ne	Without AGESQ	
	Standard			Standard
Variable	Coefficient	Error	Coefficient	Error
Constant	7.675188*	0.9745	10.833890*	0.1994
AGE	0.111583*	0.0370	-0.010227 **	0.0041
AGESQ	-0.001214*	0.0004		
	Demo	graphic		
FEMALE	-0.327204*	0.0791	-0.298262*	0.0791
MINORITY	-0.163978*	0.0403	-0.153274*	0.0404
MARRIED	-0.105995 **	0.0458	-0.139698*	0.0450
DEPKIDS	-0.042207	0.0370	-0.069805 ***	0.0363
URBAN	0.161988*	0.0527	0.132962 **	0.0522
	Educ	cation		
SOMECOLL	0.087321 **	0.0383	0.080754 **	0.0384
BACH	0.054104	0.0584	0.045613	0.0588
BACHPLUS	0.139796 **	0.0639	0.111282 ***	0.0637
	Occu	pation		
MANAGER	0.200365*	0.0522	0.198536*	0.0522
PROF	0.203705*	0.0512	0.202323*	0.0513
SERV	-0.162227*	0.0559	-0.162223*	0.0559
SALES	-0.375119*	0.0761	-0.382048*	0.0761
OFFICE	-0.093354 ***	0.0543	-0.093654 ***	0.0543
FARM	-0.118471	0.3034	-0.116517	0.3034
TRANSPRT	-0.145090 **	0.0672	-0.145699 **	0.0672
	Disa	bility		
DIS0020	-0.046206	0.0448	-0.045570	0.0452
DIS3050	-0.078552 ***	0.0409	-0.069553 ***	0.0411
DIS6080	-0.117044	0.0714	-0.032344	0.0668
DIS90100	-0.323211 **	0.1323	-0.132480	0.1191
MEDLOC	-0.026992	0.0334	-0.020596	0.0335
	Ser	vice		
NAVY	0.110834 **	0.0434	0.111552 **	0.0437
USMC	0.106870	0.0806	0.098431	0.0812
USAF	0.181327*	0.0404	0.175044*	0.0406
RET2126	-0.046010	0.0375	-0.048439	0.0377
RET27UP	0.122497	0.0748	0.095985	0.0747
E1E4	-3.661470*	0.7086	-3.552512*	0.7110
E5E6	-0.224021*	0.0430	-0.210709*	0.0431
OTHER	0.000005*	0.0000	0.000005*	0.0000
LAMBDA	-0.044963	0.1236	-0.320346*	0.0914
Adjusted R2	0.059		0.058	

^{*}Significant at the 0.01 level; **Significant at the 0.05 level; ***Significant at the 0.10 level

Table 11.
Enlisted Choice Equations: URBAN vs. Region Category Variables

	Baselin	ie	Region Va	Region Variables	
		Standard		Standard	
Variable	Coefficient	Error	Coefficient	Error	
Constant	0.628167*	0.0577	0.803686*	0.0572	
AGEUND44	0.184270*	0.0482	0.179917*	0.0472	
AGE5564	-0.562734*	0.0316	-0.573024*	0.0311	
AGE65UP	-1.941207*	0.0400	-1.949581*	0.0393	
FEMALE	-0.264811 *	0.0587	-0.283264*	0.0576	
MINORITY	-0.091679*	0.0316	-0.075752 **	0.0310	
MARRIED	0.270930*	0.0322	0.269570*	0.0315	
DEPKIDS	0.151734*	0.0304	0.152521*	0.0299	
URBAN	0.230935 *	0.0375			
EAST			0.017403	0.0605	
WEST			0.045527	0.0420	
SOUTH			-0.013033	0.0379	
DIS0020	-0.006736	0.0391	-0.003787	0.0384	
DIS3050	-0.124719*	0.0334	-0.125090*	0.0329	
DIS6080	-0.673164*	0.0392	-0.679791*	0.0384	
DIS90100	-1.221719*	0.0486	-1.217876*	0.0478	
NAVY	-0.025943	0.0347	-0.030341	0.0343	
USMC	0.007954	0.0649	0.000617	0.0636	
USAF	0.021118	0.0316	0.020542	0.0312	
SOMECOLL	0.084099*	0.0286	0.084919*	0.0281	
BACH	0.110733 **	0.0455	0.124032*	0.0447	
BACHPLUS	0.337396*	0.0504	0.335282*	0.0492	
MEDLOC	-0.058509 **	0.0260	-0.031511	0.0255	
OTHER	-0.000002*	0.0000	-0.000002*	0.0000	
RET2126	0.084579*	0.0292	0.080706*	0.0287	
RET27UP	0.180775*	0.0518	0.184162*	0.0509	
E1E4	-0.679725	0.4673	-0.462737	0.4098	
E5E6	-0.144428*	0.0325	-0.138333*	0.0319	
Likelihood Ratio χ ²	6204.82		6342.82		
D.F.	24		26		
Pseudo R ²	0.3564		0.3537		

Table 12.
Enlisted Earnings Equations: URBAN vs. Region Category Variables

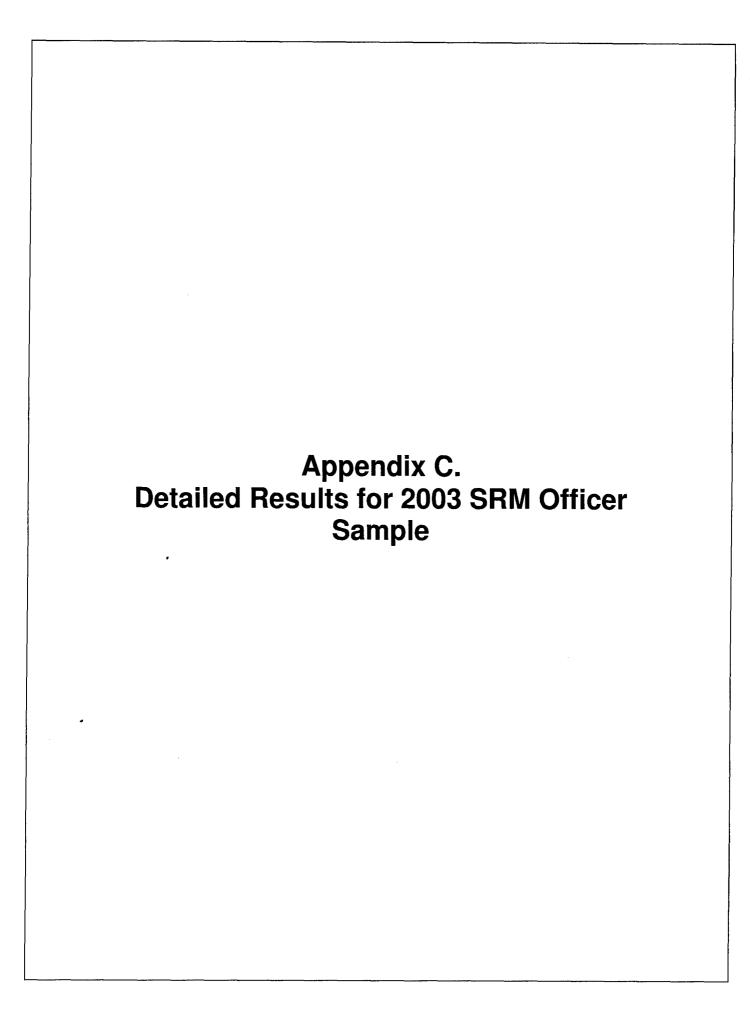
	Baselin	e	Region Var	iables
		Standard		Standard
Variable	Coefficient	Error	Coefficient	Error
Constant	7.675188*	0.9745	7.872104*	0.9615
AGE	0.111583*	0.0370	0.112469*	0.0368
AGESQ	-0.001214*	0.0004	-0.001248*	0.0004
	Demogr	aphic		
FEMALE	-0.327204*	0.0791	-0.317751*	0.0791
MINORITY	-0.163978*	0.0403	-0.132632*	0.0399
MARRIED	-0.105995 **	0.0458	-0.085932 ***	0.0454
DEPKIDS	-0.042207	0.0370	-0.034033	0.0367
URBAN	0.161988*	0.0527		
EAST			0.016644	0.0746
WEST			-0.062153	0.0521
SOUTH			-0.101385 **	0.0467
	Educa	tion		
SOMECOLL	0.087321 **	0.0383	0.097955 *	0.0378
BACH	0.054104	0.0584	0.057995	0.0578
BACHPLUS	0.139796 **	0.0639	0.168019*	0.0631
	Occupa	ıtion		
MANAGER	0.200365 *	0.0522	0.202871 *	0.0517
PROF	0.203705 *	0.0512	0.192992*	0.0506
SERV	-0.162227*	0.0559	-0.160153*	0.0554
SALES	-0.375119*	0.0761	-0.354350*	0.0751
OFFICE	-0.093354 ***	0.0543	-0.101202 ***	0.0537
FARM	-0.118471	0.3034	-0.122073	0.3049
TRANSPRT	-0.145090 **	0.0672	-0.146918 **	0.0665
	Disabi	lity		
DIS0020	-0.046206	0.0448	-0.056080	0.0444
DIS3050	-0.078552***	0.0409	-0.082476 **	0.0406
DIS6080	-0.117044	0.0714	-0.149638 **	0.0711
DIS90100	-0.323211 **	0.1323	-0.403158*	0.1306
MEDLOC	-0.026992	0.0334	-0.007966	0.0330
	Servi	ce		
NAVY	0.110834 **	0.0434	0.106510 **	0.0432
USMC	0.106870	0.0806	0.116741	0.0796
USAF	0.181327*	0.0404	0.183211*	0.0402
RET2126	-0.046010	0.0375	-0.022759	0.0371
RET27UP	0.122497	0.0748	0.160460 **	0.0742
E1E4	-3.661470*	0.7086	-2.853035*	0.6373
E5E6	-0.224021*	0.0430	-0.242064*	0.0425
OTHER	0.000005 *	0.0000	0.000004*	0.0000
LAMBDA	-0.044963	0.1236	0.044274	0.1224
Adjusted R2	0.059		0.055	

Table 13.
Enlisted Choice Equations: MEDLOC vs. Commissary Categorical Variables

	Baselin	ie	Commissary Variables	
		Standard		Standard
Variable	Coefficient	Error	Coefficient	Error
Constant	0.628167*	0.0577	0.591480*	0.0580
AGEUND44	0.184270*	0.0482	0.179688*	0.0482
AGE5564	-0.562734*	0.0316	-0.561992*	0.0316
AGE65UP	-1.941207*	0.0400	-1.941832*	0.0400
FEMALE	-0.264811*	0.0587	-0.270319*	0.0589
MINORITY	-0.091679*	0.0316	-0.120455*	0.0318
MARRIED	0.270930*	0.0322	0.265305 *	0.0322
DEPKIDS	0.151734*	0.0304	0.146452*	0.0304
URBAN	0.230935 *	0.0375	0.152783*	0.0393
DIS0020	-0.006736	0.0391	-0.012902	0.0391
DIS3050	-0.124719*	0.0334	-0.133084*	0.0334
DIS6080	-0.673164*	0.0392	-0.682075*	0.0391
DIS90100	-1.221719*	0.0486	-1.231614*	0.0485
NAVY	-0.025943	0.0347	-0.020756	0.0347
USMC	0.007954	0.0649	0.016559	0.0650
USAF	0.021118	0.0316	0.021236	0.0316
SOMECOLL	0.084099*	0.0286	0.087731*	0.0286
BACH	0.110733 **	0.0455	0.111688 **	0.0455
BACHPLUS	0.337396*	0.0504	0.338690*	0.0504
MEDLOC	-0.058509 **	0.0260		
COMM0010			0.156478*	0.0326
COMM1120			0.179358*	0.0379
COMM2140	***************************************		0.141242*	0.0402
OTHER	-0.000002 *	0.0000	-0.000002*	0.0000
RET2126	0.084579*	0.0292	0.069433 **	0.0293
RET27UP	0.180775*	0.0518	0.148734*	0.0520
E1E4	-0.679725	0.4673	-0.676376	0.4664
E5E6	-0.144428*	0.0325	-0.147075*	0.0325
Likelihood Ratio χ ²	6204.82		6232.45	
D.F.	24		26	
Pseudo R2	0.3564	**G! !G 4b - (0.3577	

Table 14.
Enlisted Earnings Equations: MEDLOC vs. Commissary Category Variables

	Baselin	e	Commissary Variables	
		Standard		Standard
Variable	Coefficient	Error	Coefficient	Error
Constant	7.675188*	0.9745	7.631291*	0.9773
AGE	0.111583*	0.0370	0.112359*	0.0371
AGESQ	-0.001214*	0.0004	-0.001219*	0.0004
	Demog	raphic		
FEMALE	-0.327204*	0.0791	-0.333172*	0.0791
MINORITY	-0.163978*	0.0403	-0.177768*	0.0408
MARRIED	-0.105995 **	0.0458	-0.108745 **	0.0457
DEPKIDS	-0.042207	0.0370	-0.043572	0.0369
URBAN	0.161988*	0.0527	0.128822 **	0.0536
	Educa	ation		
SOMECOLL	0.087321 **	0.0383	0.088919**	0.0383
BACH	0.054104	0.0584	0.054274	0.0584
BACHPLUS	0.139796 **	0.0639	0.140724 **	0.0638
	Occup	ation		
MANAGER	0.200365*	0.0522	0.198838*	0.0521
PROF	0.203705*	0.0512	0.203641*	0.0512
SERV	-0.162227 *	0.0559	-0.161630*	0.0559
SALES	-0.375119*	0.0761	-0.373681*	0.0761
OFFICE	-0.093354 ***	0.0543	-0.092866 ***	0.0543
FARM	-0.118471	0.3034	-0.119156	0.3033
TRANSPRT	-0.145090 **	0.0672	-0.142695 **	0.0672
	Disab	ility		
DIS0020	-0.046206	0.0448	-0.049649	0.0448
DIS3050	-0.078552 ***	0.0409	-0.081957 **	0.0409
DIS6080	-0.117044	0.0714	-0.119095 ***	0.0714
DIS90100	-0.323211 **	0.1323	-0.325289 **	0.1323
MEDLOC	-0.026992	0.0334		
COMM0010	· · · · · · · · · · · · · · · · · · ·		0.075874 ***	0.0425
COMM1120			0.062981	0.0482
COMM2140			0.065448	0.0515
	Serv	ice		
NAVY	0.110834 **	0.0434	0.113264*	0.0433
USMC	0.106870	0.0806	0.111042	0.0807
USAF	0.181327*	0.0404	0.181650*	0.0404
RET2126	-0.046010	0.0375	-0.051930	0.0374
RET27UP	0.122497	0.0748	0.108356	0.0746
E1E4	-3.661470*	0.7086	-3.662027*	0.7085
E5E6	-0.224021 *	0.0430	-0.223735*	0.0430
OTHER	0.000005*	0.0000	0.000005*	0.0000
LAMBDA	-0.044963	0.1236	-0.049222	0.1234
Adjusted R ²	0.059		0.059	



Detailed Results for 2003 SRM Officer Sample

Table 15.
Officer Earnings Equations: With and Without AGESQ

	Baseline	e	Without AGESQ	
	•	Standard		Standard
Variable	Coefficient	Error	Coefficient	Error
Constant	8.352686*	1.5115	12.071896*	0.6270
AGE	0.127095 **	0.0588	-0.028588 **	0.0135
AGESQ	-0.001759*	0.0006		
	Demogr	aphic		
FEMALE	-0.604294*	0.2018	-0.288383 ***	0.1590
MINORITY	-0.016169	0.0624	-0.033505	0.0585
MARRIED	0.108685	0.0926	0.010473	0.0812
DEPKIDS	-0.037572	0.0548	-0.059432	0.0506
URBAN	0.341137*	0.1171	0.178049 ***	0.0961
	Educa	tion		
SOMECOLL	-0.156992	0.1211	-0.087094	0.1131
BACH	0.031620	0.1017	0.052706	0.0966
BACHPLUS	0.055541	0.0801	0.023884	0.0757
	Occupa	ation		
MANAGER	0.469291 *	0.0974	0.479053*	0.0974
PROF	0.319738*	0.0988	0.329044*	0.0987
SERV	0.130191	0.1368	0.128076	0.1370
SALES	-0.405213*	0.1537	-0.395567 **	0.1550
OFFICE	-0.009703	0.1333	-0.000767	0.1343
FARM	-0.270584	0.6012	-0.139815	0.6142
TRANSPRT	0.452274*	0.1385	0.468163*	0.1376
	Disabi		07.00100	0,10,0
DIS0020	-0.029899	0.0650	-0.014393	0.0608
DIS3050	-0.250796*	0.0661	-0.207087*	0.0604
DIS6080	-0.233847 **	0.1028	-0.104642	0.0867
DIS90100	-0.785276*	0.2147	-0.431834*	0.1661
MEDLOC	-0.204874*	0.0560	-0.151374*	0.0495
	Servi			
NAVY	-0.082514	0.0679	-0.036509	0.0620
USMC	-0.074172	0.1093	-0.048862	0.1030
USAF	-0.128906 **	0.0648	-0.084217	0.0593
RET2126	0.117875 ***	0.0616	0.061347	0.0547
RET27UP	0.219449 **	0.0907	0.148124 ***	0.0828
0103	-0.063755	0.0909	-0.083795	0.0850
O6PLUS	0.395321*	0.0751	0.343391*	0.0690
WARRANT	-0.195501 **	0.0842	-0.225173*	0.0787
OTHER	0.000000	0.0000	0.000001 ***	0.0000
LAMBDA	0.892587 **	0.3848	0.073895	0.2359
Adjusted R ²	0.074		0.073	

^{*}Significant at the 0.01 level; **Significant at the 0.05 level; **Significant at the 0.10 level

Table 16.
Officer Choice Equations: AGE vs. Age Category Variables

	Baselin	1e	Age Varia	bles
		Standard		Standard
Variable	Coefficient	Error	Coefficient	Error
Constant	6.438420*	0.2252	0.461706*	0.1165
AGE	-0.111070*	0.0032		
AGEUND44			0.068429	0.1524
AGE5564			-0.459499*	0.0529
AGE65UP			-1.972566*	0.0624
FEMALE	-0.873759*	0.0933	-0.673056*	0.0908
MINORITY	0.035626	0.0543	0.067082	0.0535
MARRIED	0.251178*	0.0625	0.249776*	0.0611
DEPKIDS	0.037978	0.0514	0.267225*	0.0505
URBAN	0.411874*	0.0679	0.422758*	0.0674
DIS0020	-0.042435	0.0589	-0.031512	0.0584
DIS3050	-0.135244 **	0.0549	-0.113573 **	0.0540
DIS6080	-0.349159*	0.0646	-0.346629*	0.0631
DIS90100	-0.781656*	0.0813	-0.811955*	0.0804
NAVY	-0.142362 **	0.0555	-0.098748 ***	0.0547
USMC	-0.105018	0.0918	-0.023020	0.0902
USAF	-0.134511*	0.0516	-0.121858 **	0.0509
SOMECOLL	-0.204617 **	0.0897	-0.187331 **	0.0874
BACH	-0.056880	0.0808	-0.012502	0.0797
BACHPLUS	0.086745	0.0620	0.127433 **	0.0611
MEDLOC	-0.139573*	0.0420	-0.152057*	0.0415
OTHER	-0.000002*	0.0000	-0.000002*	0.0000
RET2126	0.181983*	0.0474	0.132374*	0.0468
RET27UP	0.196076*	0.0663	0.046339	0.0652
0103	0.024886	0.0834	0.053436	0.0810
O6PLUS	0.122899 **	0.0585	0.066062	0.0578
WARRANT	0.056515	0.0721	0.124092 ***	0.0708
Likelihood Ratio χ ²	2803.91		2669.54	
D.F.	23		25	
Pseudo R2	0.3869		0.3723	

^{*}Significant at the 0.01 level; **Significant at the 0.05 level; ***Significant at the 0.10 level

Table 17.

Officer Earnings Equations: Baseline vs. Age Category Variables Used in Choice Equation

Coefficient 8.352686 * 0.127095 ** -0.001759 *	Standard Error 1.5115	Coefficient	Standard
8.352686 * 0.127095 **		Coefficient	
0.127095 **	1.5115		Error
		10.632730*	1.5219
-0.001759*	0.0588	0.019161	0.0542
	0.0006	-0.000353	0.0005
-0.604294*	0.2018	-0.217582 ***	0.1321
-0.016169	0.0624	-0.030584	0.0588
0.108685	0.0926	-0.012273	0.0775
-0.037572	0.0548	-0.054610	0.0528
0.341137*	0.1171	0.149272 ***	0.0889
Edu	cation		
-0.156992	0.1211	-0.065818	0.1115
0.031620	0.1017	0.055905	0.0964
0.055541	0.0801	0.011828	0.0753
Occu	pation		
0.469291*	0.0974	0.477253*	0.0975
0.319738*	0.0988	0.328174*	0.0987
0.130191	0.1368	0.133191	0.1371
-0.405213*	0.1537	-0.399305*	0.1550
-0.009703			0.1343
-0.270584	0.6012	-0.114628	0.6132
0.452274*	0.1385	0.470005 *	0.1376
	0.0650	-0.013880	0.0607
			0.0587
			0.0794
			0.1394
			0.0483
		-0.027376	0.0605
			0.1016
			0.0576
			0.0508
			0.0789
			0.0852
			0.0678
			0.0793
			0.0000
			0.1325
	0.50-0		0.1343
	Demo -0.604294* -0.016169 0.108685 -0.037572 0.341137* Edu -0.156992 0.031620 0.055541 Occu 0.469291* 0.319738* 0.130191 -0.405213* -0.009703 -0.270584 0.452274* Disa -0.029899 -0.250796* -0.233847** -0.785276* -0.204874*	Demographic -0.604294* 0.2018 -0.016169 0.0624 0.108685 0.0926 -0.037572 0.0548 0.341137* 0.1171 Education -0.156992 0.1211 0.031620 0.1017 0.055541 0.0801 Occupation 0.469291* 0.0974 0.319738* 0.0988 0.130191 0.1368 -0.405213* 0.1537 -0.009703 0.1333 -0.270584 0.6012 0.452274* 0.1385 Disability -0.029899 0.0650 -0.250796* 0.0661 -0.233847** 0.1028 -0.785276* 0.2147 -0.204874* 0.0560 Service -0.082514 0.0679 -0.074172 0.1093 -0.128906** 0.0648 0.117875*** 0.0616 0.219449** 0.0907 -0.063755 0.0909 0.395321* 0.0751 -0.195501** 0.0842 0.000000 0.0000 0.892587** 0.3848	Demographic -0.604294 * 0.2018

^{*}Significant at the 0.01 level; **Significant at the 0.05 level; ***Significant at the 0.10 level

Table 18.

Officer Choice Equations: URBAN vs. Region Category Variables

	Basel	ine	Region Var	iables
		Standard		Standard
Variable	Coefficient	Error	Coefficient	Error
Constant	6.438420*	0.2252	6.630572*	0.2209
AGE	-0.111070*	0.0032	-0.110965 *	0.0031
FEMALE	-0.873759*	0.0933	-0.896196*	0.0921
MINORITY	0.035626	0.0543	0.039172	0.0534
MARRIED	0.251178*	0.0625	0.224766*	0.0616
DEPKIDS	0.037978	0.0514	0.062826	0.0503
URBAN	0.411874*	0.0679		
EAST			0.120350	0.1066
WEST			0.115706	0.0741
SOUTH			0.230545 *	0.0681
DIS0020	-0.042435	0.0589	-0.032570	0.0579
DIS3050	-0.135244 **	0.0549	-0.159241 *	0.0538
DIS6080	-0.349159*	0.0646	-0.387467*	0.0634
DIS90100	-0.781656*	0.0813	-0.814799*	0.0797
NAVY	-0.142362 **	0.0555	-0.147155*	0.0546
USMC	-0.105018	0.0918	-0.083753	0.0899
USAF	-0.134511*	0.0516	-0.106816**	0.0509
SOMECOLL	-0.204617 **	0.0897	-0.186025 **	0.0874
BACH	-0.056880	0.0808	-0.057755	0.0794
BACHPLUS	0.086745	0.0620	0.094721	0.0611
MEDLOC	-0.139573 *	0.0420	-0.096102 **	0.0412
OTHER	-0.000002*	0.0000	-0.000002*	0.0000
RET2126	0.181983*	0.0474	0.169205*	0.0466
RET27UP	0.196076*	0.0663	0.216726*	0.0652
0103	0.024886	0.0834	0.014301	0.0818
O6PLUS	0.122899 **	0.0585	0.108032 ***	0.0574
WARRANT	0.056515	0.0721	0.031310	0.0704
Likelihood Ratio χ ²	2803.91		2866.65	
D.F.	23		25	
Pseudo R ²	0.3869		0.3837	

^{*}Significant at the 0.01 level; **Significant at the 0.05 level; ***Significant at the 0.10 level

Table 19.
Officer Earnings Equations: URBAN vs. Region Category Variables

	Baselin	ie	Region Va	riables
		Standard		Standard
Variable	Coefficient	<u>Error</u>	Coefficient	Error
Constant	8.352686*	1.5115	8.559582*	1.4777
AGE	0.127095 **	0.0588	0.122242 **	0.0587
AGESQ	-0.001759*	0.0006	-0.001700*	0.0007
	Demog	raphic		
FEMALE	-0.604294*	0.2018	-0.571946*	0.2066
MINORITY	-0.016169	0.0624	-0.004323	0.0613
MARRIED	0.108685	0.0926	0.131711	0.0897
DEPKIDS	-0.037572	0.0548	-0.036755	0.0540
URBAN	0.341137*	0.1171		
EAST	No. of the last		0.115206	0.1232
WEST			0.087011	0.0876
SOUTH			0.192727 **	0.0863
	Educa	ation		
SOMECOLL	-0.156992	0.1211	-0.101466	0.1169
ВАСН	0.031620	0.1017	0.076430	0.1000
BACHPLUS	0.055541	0.0801	0.077785	0.0791
	Occup	ation		
MANAGER	0.469291 *	0.0974	0.460863 *	0.0964
PROF	0.319738*	0.0988	0.295253 *	0.0978
SERV	0.130191	0.1368	0.063850	0.1343
SALES	-0.405213 *	0.1537	-0.417283*	0.1522
OFFICE	-0.009703	0.1333	0.007232	0.1317
FARM	-0.270584	0.6012	-0.255792	0.6053
TRANSPRT	0.452274*	0.1385	0.459375 *	0.1362
	Disab	ility		
DIS0020	-0.029899	0.0650	-0.011804	0.0634
DIS3050	-0.250796*	0.0661	-0.235149*	0.0665
DIS6080	-0.233847 **	0.1028	-0.229124 **	0.1075
DIS90100	-0.785276*	0.2147	-0.730527*	0.2209
MEDLOC	-0.204874*	0.0560	-0.176888*	0.0520
	Serv	ice		
NAVY	-0.082514	0.0679	-0.061909	0.0674
USMC	-0.074172	0.1093	-0.033477	0.1055
USAF	-0.128906 **	0.0648	-0.078147	0.0623
RET2126	0.117875 ***	0.0616	0.119072 **	0.0602
RET27UP	0.219449 **	0.0907	0.225516 **	0.0912
D1O3	-0.063755	0.0909	-0.064140	0.0888
O6PLUS	0.395321 *	0.0751	0.388166*	0.0728
WARRANT	-0.195501 **	0.0842	-0.223246*	0.0817
OTHER	0.000000	0.0000	0.000000	0.0000
LAMBDA	0.892587 **	0.3848	0.823037 **	0.3905
Adjusted R ²	0.074		0.075	

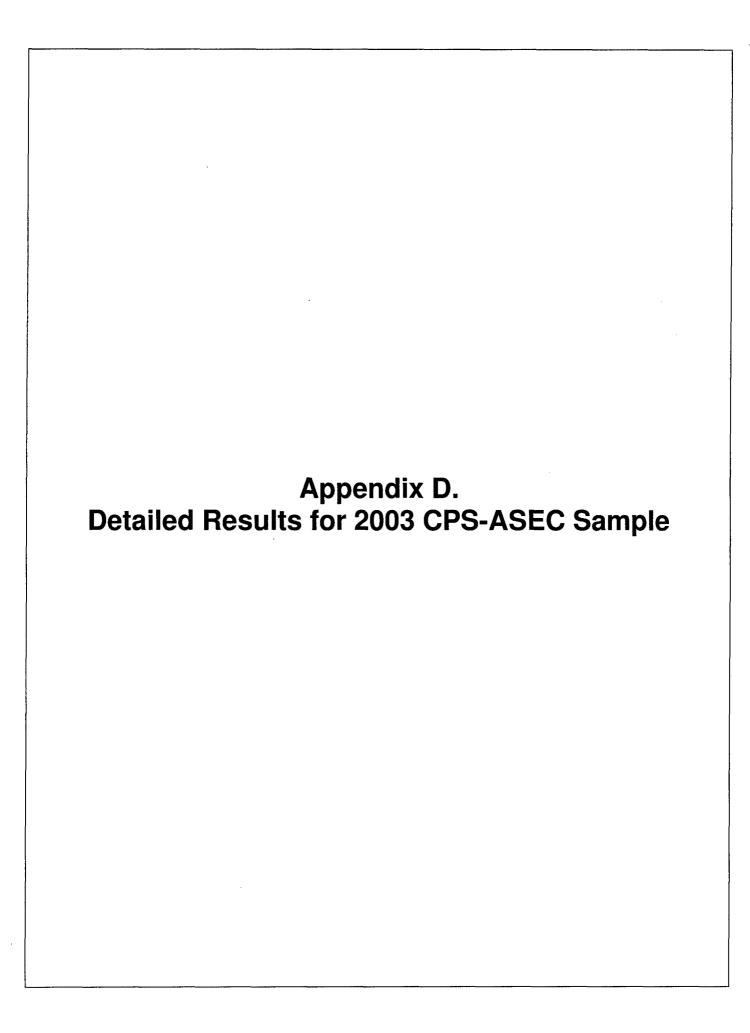
Table 20.
Officer Choice Equations: MEDLOC vs. Commissary Category Variables

	Baselir	ne	Commissary \	Commissary Variables	
		Standard		Standard	
Variable	Coefficient	Error	Coefficient	Error	
Constant	6.438420*	0.2252	6.385433*	0.2264	
AGE	-0.111070*	0.0032	-0.111191*	0.0032	
FEMALE	-0.873759*	0.0933	-0.876323*	0.0932	
MINORITY	0.035626	0.0543	0.014221	0.0543	
MARRIED	0.251178*	0.0625	0.251478*	0.0624	
DEPKIDS	0.037978	0.0514	0.038059	0.0514	
URBAN	0.411874*	0.0679	0.337640*	0.0707	
DIS0020	-0.042435	0.0589	-0.049188	0.0588	
DIS3050	-0.135244 **	0.0549	-0.139961 **	0.0549	
DIS6080	-0.349159*	0.0646	-0.358497*	0.0645	
DIS90100	-0.781656*	0.0813	-0.793008*	0.0811	
NAVY	-0.142362 **	0.0555	-0.134880 **	0.0555	
USMC	-0.105018	0.0918	-0.087277	0.0920	
USAF	-0.134511*	0.0516	-0.121754**	0.0516	
SOMECOLL	-0.204617 **	0.0897	-0.200732 **	0.0897	
BACH	-0.056880	0.0808	-0.049905	0.0808	
BACHPLUS	0.086745	0.0620	0.097475	0.0620	
MEDLOC	-0.139573 *	0.0420	****		
COMM0010			0.157440*	0.0540	
COMM1120			0.017897	0.0582	
COMM2140			0.133822 **	0.0614	
OTHER	-0.000002*	0.0000	-0.000002*	0.0000	
RET2126	0.181983*	0.0474	0.169445*	0.0475	
RET27UP	0.196076*	0.0663	0.163036 **	0.0664	
0103	0.024886	0.0834	0.031456	0.0835	
O6PLUS	0.122899 **	0.0585	0.133513 **	0.0585	
WARRANT	0.056515	0.0721	0.054222	0.0721	
Likelihood Ratio χ ²	2803.91		2804.98		
D.F.	23		25		
Pseudo R ²	0.3869		0.3870		

Significant at the 0.01 level; "Significant at the 0.05 level; "Significant at the 0.10 level

Table 21.
Officer Earnings Equations: MEDLOC vs. Commissary Category Variables

	Baselin	e	Commissary Variables	
		Standard		Standard
Variable	Coefficient	Error	Coefficient	Error
Constant	8.352686*	1.5115	8.929574*	1.5399
AGE	0.127095 **	0.0588	0.096657	0.0601
AGESQ	-0.001759*	0.0006	-0.001366 **	0.0007
	Demog	raphic		
FEMALE	-0.604294*	0.2018	-0.492575 **	0.2016
MINORITY	-0.016169	0.0624	-0.040272	0.0604
MARRIED	0.108685	0.0926	0.069759	0.0915
DEPKIDS	-0.037572	0.0548	-0.044586	0.0531
URBAN	0.341137*	0.1171	0.230849 **	0.1097
	Educa	ation		
SOMECOLL	-0.156992	0.1211	-0.128667	0.1187
BACH	0.031620	0.1017	0.039156	0.0992
BACHPLUS	0.055541	0.0801	0.052869	0.0787
	Occup	ation		
MANAGER	0.469291 *	0.0974	0.478839*	0.0976
PROF	0.319738*	0.0988	0.322285 *	0.0989
SERV	0.130191	0.1368	0.140650	0.1371
SALES	-0.405213*	0.1537	-0.414949*	0.1546
OFFICE	-0.009703	0.1333	-0.010911	0.1340
FARM	-0.270584	0.6012	-0.183833	0.6084
TRANSPRT	0.452274*	0.1385	0.469277*	0.1383
	Disab			
DIS0020	-0.029899	0.0650	-0.035808	0.0632
DIS3050	-0.250796*	0.0661	-0.247560*	0.0646
DIS6080	-0.233847 **	0.1028	-0.214184**	0.1028
DIS90100	-0.785276*	0.2147	-0.689781*	0.2174
MEDLOC	-0.204874*	0.0560		
COMM0010			0.087983	0.0689
COMM1120			0.026120	0.0675
COMM2140			0.167331 **	0.0738
	Serv	vice		
NAVY	-0.082514	0.0679	-0.061156	0.0660
USMC	-0.074172	0.1093	-0.046772	0.1061
USAF	-0.128906 **	0.0648	-0.100770	0.0626
RET2126	0.117875 ***	0.0616	0.088051	0.0593
RET27UP	0.219449 **	0.0907	0.156299 ***	0.0864
0103	-0.063755	0.0909	-0.066137	0.0883
O6PLUS	0.395321*	0.0751	0.388803*	0.0742
WARRANT	-0.195501 **	0.0842	-0.201667 **	0.0819
OTHER	0.000000	0.0000	0.000001	0.0000
LAMBDA	0.892587 **	0.3848	0.623803	0.3896
Adjusted R2	0.074		0.071	



Detailed Results for 2003 CPS-ASEC Sample

Table 22.
CPS Choice Equations: Baseline vs. Veterans Only

	Baselin	Baseline		Only
		Standard		Standard
Variable	Coefficient	Error	Coefficient	Error
Constant	-3.823344*	0.2188	-2.281763*	0.4190
AGE	0.195858*	0.0081	0.143618*	0.0145
AGESQ	-0.002293*	0.0001	-0.001870*	0.0001
MINORITY	-0.189034*	0.0202	-0.240267*	0.0395
MARRIED	0.335607*	0.0186	0.281539*	0.0343
FOWNU18	0.065683*	0.0092	0.038706 ***	0.0213
FRELU6	-0.077514*	0.0191	-0.010121	0.0475
URBAN	0.070929*	0.0176	0.082534*	0.0318
SOMECOLL	0.072760*	0.0185	0.108921*	0.0331
BACH	0.291315*	0.0210	0.303002*	0.0413
BACHPLUS	0.327126*	0.0246	0.357482*	0.0494
VET_VAL	-0.000032*	0.0000	-0.000032*	0.0000
VETERAN	-0.044563 **	0.0180		
Likelihood Ratio χ ²	10718.89		4282.51	
D.F.	12		11	
Pseudo R ²	0.2574		0.3271	

^{*}Significant at the 0.01 level; **Significant at the 0.05 level; ***Significant at the 0.10 level

Table 23.
CPS Earnings Equations: Baseline vs. Veterans Only

	Baseline	e	Veterans (Veterans Only		
		Standard		Standard		
Variable	Coefficient	Error	Coefficient	Error		
Constant	3.464002	2.4333	2.721552	4.0847		
AGE	0.229627 **	0.0935	0.282354 ***	0.1594		
AGESQ	-0.002902*	0.0010	-0.003615 **	0.0018		
DISWORK	-0.696833 *	0.1692	-0.533490 **	0.2687		
MINORITY	-0.074466	0.0808	-0.141651	0.1913		
MARRIED	0.357988*	0.1203	0.325054	0.2095		
FOWNU18	0.003246	0.0258	0.044474	0.0561		
FRELU6	-0.008119	0.0493	-0.074565	0.1193		
URBAN	0.548239*	0.0528	0.601496*	0.1080		
SOMECOLL	0.278226*	0.0566	0.293618 **	0.1196		
BACH	0.712998*	0.1022	0.579232*	0.2223		
BACHPLUS	0.682692*	0.1206	0.439065	0.2720		
VET_VAL	-0.000015	0.0000	-0.000021	0.0000		
MANAGER	-0.198963*	0.0616	-0.239021 ***	0.1230		
PROF	0.073542	0.0687	0.228268 ***	0.1370		
SERVICE	0.022696	0.0781	-0.001808	0.1471		
SALES	-0.392779*	0.0708	-0.450528*	0.1423		
OFFICE	0.430145*	0.0920	0.450994*	0.1637		
FARM	-0.539295 **	0.2706	0.092796	0.5296		
TRANSPT	0.297066*	0.0779	0.243526 ***	0.1416		
OTHER	0.000005 *	0.0000	0.000004*	0.0000		
VETERAN	0.245337*	0.0520				
LAMBDA	1.472765 **	0.6035	1.927100 ***	1.1258		
Adjusted R ²	0.050		0.052			

Table 24.

CPS Choice Equations: With and Without AGESQ vs. Age Category Variables

	Baseline Without Age Squar		Squared	With Age V	e Variables	
 Variable	Coefficient	Standard Error	Coefficient	Standard Error	Coefficient	Standard Error
Constant	-3.823344 *	0.2188	3.051940*	0.0486	0.283966*	0.0239
AGE	0.195858*	0.0081	-0.060248*	0.0009		
AGESQ	-0.002293*	0.0001	_			
AGEUND45					0.025854	0.0194
AGE5564					-0.532069*	0.0208
AGE65UP					-1.880476*	0.0271
MINORITY	-0.189034*	0.0202	-0.186031*	0.0200	-0.183484*	0.0201
MARRIED	0.335607*	0.0186	0.391501*	0.0183	0.334799*	0.0184
FOWNU18	0.065683 *	0.0092	0.020857 **	0.0091	0.075763*	0.0092
FRELU6	-0.077514*	0.0191	-0.138914*	0.0191	-0.074194*	0.0192
URBAN	0.070929*	0.0176	0.056652*	0.0174	0.071947*	0.0175
SOMECOLL	0.072760*	0.0185	0.100931*	0.0183	0.073788*	0.0184
BACH	0.291315*	0.0210	0.319913*	0.0207	0.283375*	0.0209
BACHPLUS	0.327126*	0.0246	0.379933 *	0.0240	0.318758*	0.0244
VET_VAL	-0.000032*	0.0000	-0.000029*	0.0000	-0.000032*	0.0000
VETERAN	-0.044563 **	0.0180	-0.049399*	0.0176	-0.068517*	0.0178
Likelihood Ratio χ2	10718.89		9602.14		10304.85	
D.F.	12		11		13	
Pseudo R ²	0.2574		0.2340		0.2488	

Table 25.
CPS Earnings Equations: With and Without AGESQ vs. Age Category Variables

	Baselin	Baseline		Without Age Squared		ariables
		Standard		Standard		Standard
Variable	Coefficient	Error	Coefficient	Error	Coefficient	Error
Constant	3.464002	2.4333	10.792683*	0.4041	6.511310*	0.5241
AGE	0.229627 **	0.0935	-0.053259*	0.0146		
AGESQ	-0.002902*	0.0010	-			
AGEUND45					0.248136*	0.0563
AGE5564					-1.260732*	0.2413
AGE65UP					-5.275886*	1.0488
DISWORK	-0.696833*	0.1692	-0.693915*	0.1700	-0.703174*	0.1651
MINORITY	-0.074466	0.0808	0.005558	0.0703	-0.251456 **	0.1005
MARRIED	0.357988*	0.1203	0.227781 **	0.1064	0.682748*	0.1580
FOWNU18	0.003246	0.0258	-0.030755	0.0215	0.085343 **	0.0351
FRELU6	-0.008119	0.0493	-0.017901	0.0545	-0.069583	0.0601
URBAN	0.548239*	0.0528	0.513478 *	0.0487	0.617473*	0.0621
SOMECOLL	0.278226*	0.0566	0.259810*	0.0561	0.351271*	0.0667
BACH	0.712998*	0.1022	0.608483*	0.0904	0.960690*	0.1301
BACHPLUS	0.682692*	0.1206	0.570803 *	0.1111	0.955131*	0.1513
VET_VAL	-0.000015	0.0000	0.000003	0.0000	-0.000052*	0.0000
MANAGER	-0.198963*	0.0616	-0.202458*	0.0617	-0.205834*	0.0615
PROF	0.073542	0.0687	0.069961	0.0686	0.072554	0.0690
SERVICE	0.022696	0.0781	0.018412	0.0784	0.016672	0.0769
SALES	-0.392779*	0.0708	-0.400774*	0.0709	-0.396386*	0.0705
OFFICE	0.430145*	0.0920	0.431331 *	0.0922	0.426886*	0.0909
FARM	-0.539295 **	0.2706	-0.537100 **	0.2712	-0.520316 ***	0.2669
TRANSPT	0.297066*	0.0779	0.296121 *	0.0782	0.291554*	0.0766
OTHER	0.000005*	0.0000	0.000005 *	0.0000	0.000005*	0.0000
VETERAN	0.245337*	0.0520	0.249449*	0.0513	0.134402 **	0.0640
LAMBDA	1.472765 **	0.6035	0.598084	0.4438	3.441931*	0.8241
Adjusted R ²	0.050		0.050		0.050	

^{&#}x27;Significant at the 0.01 level; "Significant at the 0.05 level; "Significant at the 0.10 level

Table 26.
CPS Earnings Equations: When AGESQ is Omitted from Choice Equation

		Standard
Variable	Coefficient	Error
Constant	11.326166*	0.3922
AGE	-0.044123*	0.0144
AGESQ	0.000450*	0.0001
	Demographic	
MINORITY	-0.072222 **	0.0345
MARRIED	0.034397	0.0307
DEPKIDS	-0.059899**	0.0267
URBAN	0.133062*	0.0265
	Education	
SOMECOLL	0.040241	0.0280
BACH	0.158489*	0.0368
BACHPLUS	0.236263 *	0.0460
	Occupation	
MANAGER	0.080893 **	0.0357
PROF	0.102338*	0.0397
SERVICE	-0.159271 *	0.0428
SALES	-0.036869	0.0414
OFFICE	-0.070552	0.0475
FARM	-0.267837 ***	0.1540
TRANSPR	-0.083245 **	0.0412
DISWORK	-0.231398*	0.0780
OTHER	0.000004 *	0.0000
LAMBDA	-0.332673*	0.0691
Adjusted R ²	0.243	

^{*}Significant at the 0.01 level; **Significant at the 0.05 level; ***Significant at the 0.10 level

Table 27.

CPS Choice Equations: URBAN vs. Region Category Variables

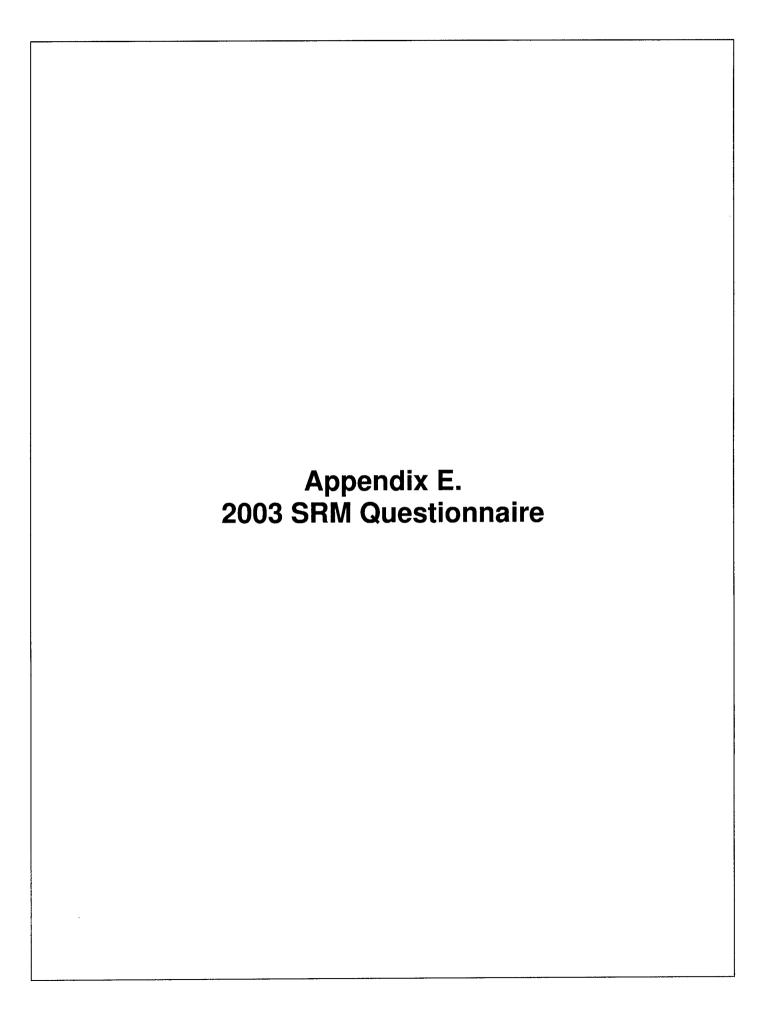
	Baseline		Region Var	riables
		Standard		Standard
Variable	Coefficient	Error	Coefficient	Error
Constant	-3.823344*	0.2188	-3.737394*	0.2185
AGE	0.195858*	0.0081	0.195322*	0.0081
AGESQ	-0.002293*	0.0001	-0.002289*	0.0001
MINORITY	-0.189034*	0.0202	-0.179754*	0.0202
MARRIED	0.335607*	0.0186	0.332932*	0.0186
FOWNU18	0.065683 *	0.0092	0.065571*	0.0092
FRELU6	-0.077514*	0.0191	-0.075810*	0.0191
URBAN	0.070929*	0.0176		
NORTH			-0.030094	0.0220
WEST			-0.059041 *	0.0212
SOUTH			-0.009302	0.0208
SOMECOLL	0.072760*	0.0185	0.080617*	0.0185
BACH	0.291315*	0.0210	0.303581 *	0.0209
BACHPLUS	0.327126*	0.0246	0.342114*	0.0244
VET_VAL	-0.000032*	0.0000	-0.000032*	0.0000
VETERAN	-0.044563 **	0.0180	-0.046024 **	0.0180
Likelihood Ratio χ2	10718.89		10712.07	
D.F.	12		14	
Pseudo R ²	0.2574		0.2572	

^{*}Significant at the 0.01 level; **Significant at the 0.05 level; ***Significant at the 0.10 level

Table 28.

CPS Earnings Equations: URBAN vs. Region Category Variables

	Baseline		Region Var	ables
		Standard		Standard
Variable	Coefficient	Error	Coefficient	Error
Constant	3.464002	2.4333	4.419268 ***	2.4294
AGE	0.229627 **	0.0935	0.208041 **	0.0941
AGESQ	-0.002902*	0.0010	-0.002665 **	0.0011
DISWORK	-0.696833*	0.1692	-0.696913*	0.1698
MINORITY	-0.074466	0.0808	0.003976	0.0795
MARRIED	0.357988*	0.1203	0.305861 **	0.1205
FOWNU18	0.003246	0.0258	-0.000519	0.0258
FRELU6	-0.008119	0.0493	0.006825	0.0489
URBAN	0.548239*	0.0528		
NORTH			0.039038	0.0584
WEST			-0.183790*	0.0585
SOUTH			0.020396	0.0550
SOMECOLL	0.278226*	0.0566	0.320707*	0.0575
BACH	0.712998*	0.1022	0.761418*	0.1056
BACHPLUS	0.682692*	0.1206	0.736043 *	0.1245
VET_VAL	-0.000015	0.0000	-0.000013	0.0000
MANAGER	-0.198963*	0.0616	-0.186554*	0.0618
PROF	0.073542	0.0687	0.088104	0.0688
SERVICE	0.022696	0.0781	0.058573	0.0783
SALES	-0.392779*	0.0708	-0.364841 *	0.0709
OFFICE	0.430145*	0.0920	0.465858 *	0.0922
FARM	-0.539295 **	0.2706	-0.650377 **	0.2712
TRANSPT	0.297066*	0.0779	0.302393 *	0.0782
OTHER	0.000005 *	0.0000	0.000005*	0.0000
VETERAN	0.245337*	0.0520	0.240590*	0.0520
LAMBDA	1.472765 **	0.6035	1.333789 **	0.6097
Adjusted R ²	0.050		0.046	



2003 Survey of Retired Military

RCS # DD-P&R(AR) 1978 Expiration Date: July 31, 2006 DMDC Survey Number 03-0012











COMPLETION INSTRUCTIONS

- This is not a test, so take your time.
- Select answers you believe are most appropriate.
- Use a blue or black pen.
- Please PRINT where applicable.
- Place an "X" in the appropriate box or boxes.

RIGHT

WRONG

X

V O

• To change an answer, completely black out the wrong answer and put an "X" in the correct box as shown below.

CORRECT ANSWER

INCORRECT ANSWER

X



• Do not make any marks outside of the response and write-in boxes.

MAILING INSTRUCTIONS

- PLEASE RETURN YOUR COMPLETED SURVEY IN THE BUSINESS REPLY ENVELOPE. (If you misplaced the envelope, mail the survey to DMDC, c/o Data Recognition Corp., PO Box 5720, Hopkins, MN 55343.)
- IF YOU ARE RETURNING THE SURVEY FROM ANOTHER COUNTRY, BE SURE TO RETURN THE BUSINESS REPLY ENVELOPE ONLY THROUGH A U.S. GOVERNMENT MAIL ROOM OR POST OFFICE.
- FOREIGN POSTAL SYSTEMS WILL NOT DELIVER BUSINESS REPLY MAIL.

PRIVACY NOTICE

In accordance with the Privacy Act of 1974 (Public Law 93-579), this notice informs you of the purpose of the survey and how the findings will be used. Please read it carefully.

Authority: 10 United States Code, Sections 136, 1782, and 2358.

Principal Purpose: Information collected in this survey will be used to assess the impact of military service and other factors on lifetime earnings. Reports will be provided to the Office of the Secretary of Defense and each Military Department. Some findings may be published by the Defense Manpower Data Center (DMDC) or in professional journals, or presented at conferences, symposia, and scientific meetings. In no case will the data be reported or used for identifiable individual(s).

Routine Uses: None.

Disclosure: Providing information on this survey is voluntary. There is no penalty if you choose not to respond. However, maximum participation is encouraged so that the data will be complete and representative. Your survey responses will be treated as confidential. Identifying information will be used only by persons engaged in, and for purposes of, the survey research.

ABOUT THIS QUESTIONNAIRE

The Department of Defense needs career and income information to adequately assess the impact of military service and other factors on lifetime earnings. The survey is not intended to capture all aspects of your military and civilian careers; instead it builds a composite picture of post-retirement careers by surveying retirees who have retired over the past 32 years.

You have been selected at random to be part of a sample of people who represent retired military personnel. The only information used to sample individuals for this survey was demographic group membership defined by Military Service, rank (officer/enlisted), race/ethnicity (majority/minority), years since retirement, and VA disability status. Enough people were scientifically sampled for this survey so that valid conclusions can be made about military retirees' lifetime earnings. However, the validity of the survey results will be diminished if you do not fill out the survey. Please complete this survey as soon as possible.

If you have any questions about the purpose of this survey or how confidentiality will be maintained, you may contact the DMDC Survey Processing Center: Data Recognition Corporation, PO Box 5720, Hopkins, MN 55343. You may also contact the Survey Processing Center via electronic mail (email) at RetSurvey@osd.pentagon.mil or toll-free at 1-800-881-5307.

Military Retirement

First, we have some general questions about your retirement from the military. (For each question below, please select the ONE best answer.)

 Compared to just before you retired from the military, would you say that your standard of living is now
A lot better Better About the same Worse A lot worse
2. In general, how satisfied are you with your civiliar life currently?
☐ Very satisfied☐ Satisfied☐ Neither satisfied nor dissatisfied☐ Dissatisfied☐ Very dissatisfied
3. In general, how do you currently feel about your military service?
Very satisfied Satisfied Neither satisfied nor dissatisfied Dissatisfied Very dissatisfied
4. How satisfied were you with your overall outprocessing/separation experience when you retired from the military?
 ✓ Very satisfied ☐ Satisfied ☐ Neither satisfied nor dissatisfied ☐ Dissatisfied ☐ Very dissatisfied
5. In 1992, the Services began offering programs designed to assist Service members in making the transition to civilian life. Did you participate in a Service-provided Transition Assistance Program (TAP)?
 Yes No ⇒ SKIP TO Question 9 Not applicable; I left the Service before 1992 ⇒ SKIP TO Question 9

6. The following is a list of services often offered	ł
through the TAP. Which of these services did	you
use during your transition? (Please mark USEL	or C
NOT USED for each item—a through d-below.)	

NOT COLD for ea	on tem—a unough u—below.)
	Not Used Used
b. Department ofc. Executive trans	counseling
7. Did your spouse activities?	participate in any TAP-sponsored
☐ Yes ☐ No ☐ Not applicable	e; I was not married at the time
8. Overall, how sat assistance you r	isfied are you with the transition eceived?
Very satisfied Satisfied Neither satisfic Dissatisfied Very dissatisfi	ed nor dissatisfied ed
	e Service, how well prepared were civilian job market?
Poorly prepare Very poorly pr	or poorly prepared ed epared e; I was not interested in entering the
10. When did you be	egin your transition processing?
3-6 months pr 7-12 months p 13-24 months	onths prior to retirement ior to retirement orior to retirement prior to retirement months prior to retirement
	o you agree with the following
statements?	Strongly agree
	Agree Neither agree nor disagree Disagree Strongly disagree
and job search b. My chain of cor supportive whe processing c. Officers were n enlisted person	e for my transition mmand was en I began transition nore likely than enel to begin
transition proce	essing on time

12. How valuable was your military experience to your civilian, post-retirement job experience?	16. How well are you doing economically as compare with others your age who did not have a military career (that is, who are not military retirees)?
 Very valuable Valuable Not very valuable Not at all valuable Not applicable; I did not enter the job market after retiring 	☐ A lot better ☐ Better ☐ About the same ☐ Worse ☐ A lot worse ☐ Don't know
13. Suppose a youth came to you for advice. How likely is it that you would recommend ? Very likely Likely	17. How much influence did each of the following reasons have on your decision to retire from the military? (Please mark ONE answer for each
Neither likely nor unlikely	retirement reason–a through x–below.)
Unlikely	Does not apply or no influence
Very unlikely	Little influence
a. Joining a Military Service such as	Some influence
the Army, Navy, Marine Corps, Air	Fairly high influence Very high influence
Force, or Coast Guard	very ingli lillidence
b. Joining a Reserve component of	a. Had reached maximum age
the military such as the Army	b. Had reached maximum total time
National Guard, Army Reserve,	in service for my grade
Naval Reserve, Marine Corps Reserve, Air National Guard, Air	c. Failed to be promoted
Force Reserve, or Coast Guard	d. Not accepted for reenlistment
Reserve	e. Health/disability
university	
d. Getting a full-time job	f. Was involuntarily retired/selected for early retirement
e. Getting a part-time job	
f. Attending a trade, technical,	g. Poor promotion possibilities in service
vocational, or community college	
14. Overall, how much has being a military retiree	h. Better opportunity for advancement in civilian life
helped or hindered your chances of finding and getting full-time employment?	i. Possibility of undesirable assignments
Helped very much	i. Desire to start second career
Helped somewhat	before becoming too old
Neither helped nor hinderedHindered somewhat	k. Desire to settle in a particular
Hindered somewhat Hindered very much	location
Never sought full-time employment	I. Dissatisfied with military life
	m. Needed more money than obtainable if I remained in service
15. Overall, how much has being a military retiree helped or hindered your chances of getting a wage or salary comparable to civilian peers?	n. No economic advantage in remaining on active duty
	o. Family wanted me to retire
Helped very muchHelped somewhat	•
Neither helped nor hindered	p. Had good civilian job offer
Hindered somewhat	q. Downsizing
Hindered very much	r. Pay and allowances
Never sought full-time employment	s. Continue my education
	t. Overall job satisfaction
	i. Overan jou sansiaunon

17	Co	ntin	nued
1/.	Vυ	11111	ıutu

	Does not apply or no influence						
	Little influence						
	Some influence						
	Fairly high influ	*****		1			
and the same of th	Very high influen	ce					
u. Dissatisfied with	military leadership				Accessed to		
v. Frequency of PCS moves							
w. Time spent away from home					Annual .		
x. Limited spouse e career opportuni	* *				- Property		

18. How important is each of the following in your decision to live at your current location? (Please mark ONE answer for each location characteristic—a through t—below.)

Does not apply	or no importance			
	ttle importance			
	importance			
Fairly high im Very high impo				
a. Cost of living (food, housing,				
commuting)	•••			
b. Utility rates				
c. Your employment opportunities				
d. Spouse's employment opportunities				
e. Opportunities for volunteer work .				
f. Convenient to major airport				
g. Local public transportation				
h. Educational opportunities				
i. Convenient shopping				
j. Cultural opportunities (museums, libraries, etc.)				
k. Preferred place of worship				
I. Close to civilian medical facilities				
m. Recreational facilities				
n. Close to family				
o. Close to friends				
p. Close to military medical care				
q. Close to a base commissary or exchange				
r. Climate				
s. Owned a home in the area	•••			
t. Base was closed where I previously lived				

19. Since your retirement from the military, have you taken or are you planning to take any of the following actions? (Please mark ONE answer for each action—a through j—below.)

		Definitely will not do					
	Market have	Probably will not do					
		Probably will do					
	and the second s	Definitely w		0			
	house	Have do	ne				
a.	Set up a savings/investr	ment plan					
b.	Get a job near a retirem	ent					
	location						
C.	Move to a retirement ho	me or					
	community						
d.	Start estate planning						
e.	Retrain for new employs	ment			(,,,,,)		
f.	Start or return to college						
g.	Make a will or living trus	st					
h.	Live with family and/or r	elatives					
i.	Sell home and relocate						
j.	Join a veteran's associa	ition					

20. Which ONE of the following best describes your major activity <u>right after</u> you retired from military service? (<u>If more than one apply</u>, select the ONE answer that applies the most to your situation. A full-time job is defined as working 35 hours a week or more, including self-employment.)

Working full-time (include self-employed)
Working part-time (include self-employed)
Working part-time, but looking for full-time work
Not working, but looking for work
Stayed home/took care of family
Took a break/vacation
Permanently retired
Going to school full-time
Going to school part-time

21. How many full-time jobs with different employers have you had since retiring from military service? (To indicate no full-time job since retirement, enter "00.")

Your Employment Situation During 2002	a few hours? (Include paid vacation and sick leave
22. In 2002, did you work at a job or business at any time, including temporary, part-time, or seasonal work-even for a few days? (Please mark ONE answer.)	as work. Please give your best estimate.) WEEKS
Yes, self-employed ⇒ <i>SKIP TO Question 27</i>	28. During the weeks that you worked in 2002, how many hours did you usually work per week?
Yes, I was employed by someone else ⇒ SKIP TO Question 27	HOURS
Yes, I was self-employed and employed by someone else ⇒ <i>SKIP TO Question 27</i> No	29. In 2002, were there one or more weeks in which you worked less than 35 hours? (Exclude time off with pay because of holidays, vacation, days off, or sickness.)
23. In 2002, even though you did not work, did you spend any time trying to find a job or were you on layoff? (Please mark ONE answer.)	☐ Yes ☐ No ⇒ <i>SKIP TO Question 32</i>
Yes, tried to find a job Yes, was on layoff	30. <u>In 2002,</u> how many weeks did you work less than 35 hours?
Yes, was on layoff and also tried to find a jobNo ⇒ SKIP TO Question 25	WEEKS
24. In 2002, how many different weeks were you: (a) looking for work, or (b) on layoff from a job? (To indicate less than one week, enter "00.")	31. In 2002, which ONE of the following is the MAIN REASON you worked less than 35 hours per week? (Please mark ONE answer.)
a. Number of b. Number of	Could not find a full-time job
weeks looked weeks on	Slack work or material shortage Wanted to work part-time
for work layoff	Was only able to work part-time
WEEKS WEEKS	Other reason
25. <u>In 2002</u> , which ONE of the following is the MAIN REASON that you did not work or did not look for	32. In 2002, what was your principal employment? (By principal employment, we mean your longest primary job in 2002. Please mark ONE answer.)
work? Disabled or ill, and unable to work	An employee of a PRIVATE/PUBLIC company, business or individual, working for wages, salary
Retired	or commission
☐ Taking care of home or family☐ Going to school	An employee of a PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization
Could not find work	☐ A FEDERAL government employee
Did not need to work	A STATE government employee
Another reason (specify below)	A LOCAL government employee (e.g., county, city, town)
	Self-employed in OWN business, professional
part .	practice, or farm
Please print	Working WITHOUT PAY in family business or farm
26. In what month and year did you last work for pay? (If you never accepted employment, enter the month and year you retired from the military.)	33. <u>In 2002</u> , counting all locations where this employer operates, what is the total number of persons who worked for this employer?
M M Y Y Y Y MONTH/YEAR	1 to 9 10 to 24
Varianta Anguna and Anguna angula anguna	25 to 99
After completing Question 26, SKIP TO Question 45	100 to 499 500 to 999
ON PAGE 8.	1.000 or more

34. In 2002, what kind of business or industry was your principal employment? (Describe the activity at the location where you were employed. For example: hospital, newspaper publishing, mail order house, auto repair shop, bank. Do not provide the name of the company.)	39. In 2002, which of the following benefits did this employer provide? (Please mark YES or NO for each item—a through e—below.) No Yes
name of the company.)	a. Health insurance
	b. Dental insurance
	c. Pension
Please print	d. Life and/or accident insurance
	e. Disability insurance
35. <u>In 2002</u> , what kind of work were you doing on your	C. Disability insurance
principal employment—that is, what was your occupation? (For example: registered nurse, personnel manager, supervisor of order department, auto mechanic, accountant.)	40. <u>In 2002</u> , overall, how satisfied were you with your principal job?
	Very satisfied Satisfied
	Neither satisfied nor dissatisfied
Please print.	☐ Dissatisfied ☐ Very dissatisfied
	very dissausiled
36. In 2002, what were your most important activities or duties at your principal employment? (For example: patient care, directing hiring policies, supervising order clerks, repairing automobiles, reconciling financial records.)	41. To the nearest year, how many years total have you been employed on this job with this employer? (To indicate less than six months, enter "00.") YEARS
Please print.	42. To what extent was your work on your principal job in 2002 related to your military training?
37. In 2002, was your salary or wage from your principal employer based on working full-time? (If SELF-EMPLOYED for 35 or more hours a week, please answer "Yes.")	 Very related ⇒ SKIP TO Question 45 Somewhat related ⇒ SKIP TO Question 45 Very unrelated Not at all related
☐ Yes ☐ No	43. Did any of the reasons listed below influence your decision to work in an area UNRELATED TO YOUR MILITARY TRAINING? (Please mark YES or NO for each item—a through h–below.)
38. <u>In 2002</u> , how much did you earn, including bonuses and overtime pay, from your principal	Yes
employer before taxes and deductions?	a. Pay, promotion opportunities
Write your salary or	b. Working conditions (hours, environment)
wage income in the boxes. \$.00	c. Job location
boxes. ψ 00	d. Change in career or professional interests
	e. Family-related reasons
	f. No jobs available in primary field of interest
	g. No jobs available in field equivalent to my military training
	h. Other reason

44. Which ONE reason represents your MOST important reason for working in an area outside of your military training?	49. How old was your spouse on her/his last birthday? AGE		
Pay, promotion opportunities Working conditions (hours, environment) Job location Change in career or professional interests Family-related reasons No jobs available in primary field of interest No jobs available in field equivalent to my military training Other reason 45. At what age did you or do you plan to re tire fully from civilian employment? Don't know Never had civilian employment	50. What is the highest level of education that your spouse has completed? (Please mark ONE answer.) Less than 12 years of school (no diploma) GED or other high school equivalency certificate High school diploma Less than 2 years of college, but no college degree 2-year college degree (AA/AS) More than 2 years of college credits, but no 4-year college degree 4-year college degree (BA/BS) Some graduate school, but no graduate degree Master's, doctoral, or professional school degree (MA/MS/PhD/MD/JD/DVM)		
	51. Which ONE of the following best describes your spouse's major activity during 2002? (Please mark ONE answer. A full-time job is defined as working 35		
Family and Household Information 46. What is your current marital status? ☐ Never married ⇒ SKIP TO Question 56 ☐ Divorced ⇒ SKIP TO Question 56 ☐ Widowed ⇒ SKIP TO Question 56 ☐ Separated ☐ Married	hours a week or more, including self-employment.) Working full-time (include self-employed) Working part-time (include self-employed) Working part-time, but looking for full-time Not working, but looking for work Not working and not looking for work Going to school full-time Going to school part-time Taking care of home or family Other		
Military service, with its frequent moves, has consequences for the career of a spouse. The next few questions are needed to assess the effects on a retiree's spouse's career. (Only consider your current spouse if remarried.)	Military service, with its frequent moves, also has consequences on the combined income of military retirees and their spouses. The next few questions ask about income for your spouse.		
47. How many years of your military service were shared by your spouse (current spouse if remarried)? (To indicate less than one year, enter "00.")	52. How much did your spouse earn before taxes and deductions in 2002, including bonuses and overtime pay? (To indicate no salary or wage income earned by spouse, enter "0.")		
SHARED YEARS	Write your spouse's salary or wage income in the boxes.		
48. Overall, how much has your military career helped or hindered your spouse's career? (Please mark ONE answer.) Helped very much Helped somewhat Neither helped nor hindered Hindered somewhat Hindered very much Not applicable; spouse never sought a career	53. In 2002, how much income did your spouse receive from the following sources: stocks or bonds, paid up life insurance, IRAs, savings, annuities, estate or trust payments, or rental income from property? (Please give your best estimate. To indicate no income from any of these sources, enter "0.") Write the amount of income in the boxes \$		

receive from all pensions including: civilian retirement pay, military retirement pay, social security, civil service, and other government pensions? (Please give your best estimate. To indicate no income from any of these sources, enter "0.")	supplemental security income, unemployment insurance, civilian or military disability, worker's compensation, GI Bill, food stamps, Aid to Families with Dependent Children (AFDC) or welfare, and child support or alimony? (Please give your best estimate. To indicate no income from any of these sources, enter "0.")
Write the amount of pension income in the boxes. \$.00	Write the amount of income in the boxes. \$.00
55. In 2002, how much income did your spouse receive from supplemental security income, unemployment insurance, civilian or military disability, worker's compensation, GI Bill, food stamps, Aid to Families with Dependent Children (AFDC) or welfare, and child support or alimony? (Please give your best estimate. To indicate no income from any of these sources, enter "0.")	Use of Commissary and Exchange MILITARY COMMISSARY refers to any Armed Services commissary store with a full line of groceries such as dairy products, fresh vegetables and meats, canned and packaged food items, etc.
Write the amount of income in the boxes. \$	60. About how many miles would you have to drive, one way, to the nearest military commissary from your residence? (To indicate less than one mile, enter "0.")
The next questions ask about your income. (Answer only for yourself.)	MILES
56. How much did <u>you</u> earn <u>before taxes and</u> <u>deductions in 2002</u> , including bonuses and <u>overtime pay?</u> (To indicate no salary or wage income, enter "0.")	61. Do you and/or your family shop at military commissaries? ☐ Yes ☐ No ⇔ SKIP TO Question 65
Write your salary or wage income in the boxes. \$.00	62. In an average month, how often do you and/or your family shop at military commissaries? (To indicate less than once per month, enter "0.")
57. In 2002, how much income did you receive from the following sources: stocks or bonds, paid up life insurance, IRAs, savings, annuities, estate or trust payments, or rental income from property? (Please give your best estimate. To indicate no income from any of these sources, enter "0.")	63. In an average month, approximately how much money do you and/or your family spend in military commissaries?
Write the amount of income in the boxes. \$	Write the amount spent each month in the boxes. \$.00
58. In 2002, how much income did you receive from all pensions including: civilian retirement pay, military retirement pay, social security, civil service, and other government pensions? (Please give your best estimate.)	64. On average, how much do you save, including sales tax, shopping at your commissary? None Less than 10%
Write the amount of pension income in the boxes. \$,00	10-19% 20-29% 30-39% 40-49%

65. What single factor most discourages you from using the commissary? Not applicable; I regularly shop at the commissary Distance (location not convenient) Difficulty getting onto installation (gate access) Hours/days of operation (hours not convenient) Congested, crowded conditions (time spent in store) Product selection (limited variety/shelves not well stocked) Product quality (meat, produce, deli, bakery, etc.) Product prices (prices of grocery products) Customer service (employees not friendly/available) Parking (insufficient parking) Store brands Nationally advertised brands Store not attractive/clean Other (specify below)	69. In an average month, approx imately how much money do you and/or your family spend in military exchanges? Write the amount spent each month in the boxes. 70. On average, how much do you save, including sales tax, shopping at your exchange? None Less than 10% 10-19% 20-29% 30-39% 40-49% 50% or more
MILITARY EXCHANGE refers to any Armed Services exchange (PX, BX, NEX, MCX) which may consist of the Main Store, Gas Station/Garage, Food Court, Vending Machines, and Personal Services (Barber & Beauty Shop, Laundry & Dry Cleaning, Photo Finishing, Watch Repair, etc.). 66. About how many miles would you have to drive, one way, to the nearest military exchange from your residence? (To indicate less than one mile, enter "0.") MILES	71. What single factor most discourages you from using the military exchange? Not applicable; I regularly shop at the exchange Distance (location not convenient) Difficulty getting onto installation (gate access) Hours/days of operation (hours not convenient) Congested, crowded conditions (time spent in store) Merchandise selection (limited variety/shelves not well stocked) Merchandise quality Prices Customer service (employees not friendly/available) Parking (insufficient parking) Store brands Nationally advertised brands Store not attractive/clean Other (specify below)
67. Do you and/or your family shop at military exchanges? ☐ Yes ☐ No ⇔ SKIP TO Question 71	Please print
68. In an average month, how often do you and/or your family shop at military exchanges? (To indicate less than once per month, enter "0.") TIMES PER MONTH	

Combat-Related Disabilities

You may want to have your letter from the Department of Veterans Affairs (VA) describing your disability (i.e., reasons and level) available when answering questions 72-85. If you do not have a copy, please do your best to answer these items from memory.

72.	Were you ever awarded the Purple Heart Medal? ☐ Yes ☐ No ⇒ SKIP TO Question 74
73.	Did the VA attribute <u>any</u> level of disability to the injury for which you received the Purple Heart Medal?
	Yes No
74.	Do you have a disability rating from the VA? ☐ Yes ☐ No ☐ SKIP TO Question 86
75.	Do you receive any compensation from the VA? Yes No
76.	ls your level of disability based on multiple determinations?
	Yes, 3 or more Yes, 2 No, I have 1 disability determination
	Using the information below, is your disability, or any part of it, combat related?
	☐ Yes ☐ No ⇒ <i>SKIP TO Question 86</i>
	DETERMINATIONS OF COMBAT-RELATEDNESS Direct Result of Armed Conflict—refers to disease or injury incurred in the line of duty as a direct result of armed conflict. Armed conflict includes war, expedition,

occupation of hostile area, battle, skirmish, raid, invasion, rebellion, guerilla action, riot, or other action in which Service members are engaged with a hostile nation, faction, force, or terrorists. Armed conflict also includes incidents while a POW or held against your will

by a hostile or belligerent force.

While Engaged in Hazardous Service—such duties include, but are not limited to aerial flight, parachute, demolition, experimental stress, and diving. Injury or disease must be a direct result of actions taken in performing such service.

In the Performance of Duty Under Conditions
Simulating War-covers disabilities resulting from
military training such as war games, practice alerts,
tactical exercises, airborne operations, leadership
reaction courses, live-fire weapons training,
hand-to-hand combat training, rappelling, and
negotiation of combat confidence and obstacle courses.
This does NOT include physical training activities, such
as calisthenics and jogging or formation running and
supervised sports.

Instrumentality of War-covers disabilities incurred due to a hazard or risk of the Service involving an instrumentality of war defined as a vehicle, vessel, or device designed primarily for military service. Such disabilities can be incurred during any period of service as a result of such diverse causes as wounds caused by military weapon, accidents involving a military combat vehicle, injury or sickness caused by fumes, gases, or explosion of military ordinance, vehicles, or material.

78.		of combat-relatedness best <u>largest</u> combat-related disability
	☐ While Engage	
79.	What percent di reason?	sability did the VA attribute to thi
	0% 10% 20% 30% 40% 50%	☐ 60% ☐ 70% ☐ 80% ☐ 90% ☐ Total or 100%
80.	Do you have an disabilities?	y other combat-related
	Yes No ⇒ SKIP T	O Question 86
81.		of combat-relatedness best second largest combat-related
	While Engage	

82. What percent disability did the VA attribute to this reason?	87. In 2002, were you enrolled in any of the following TRICARE programs? (Please mark YES or NO for
□ 0%	each item–a through h–below.)
10% 70%	Yes
20%	a. TRICARE Standard
☐ 30% ☐ 90% ☐ 40% ☐ Total or 100%	1 1
50%	b. TRICARE Extra
	c. TRICARE Prime
	d. TRICARE Prime Remote
83. Do you have any other combat-related	e. TRICARE Plus
disabilities?	f. TRICARE Dental Program
Yes No ⇒ <i>SKIP TO Question 86</i>	g. TRICARE Retiree Dental Program
E NO 7 SAM TO QUESTION OF	h. TRICARE For Life
	II. TRICARE FOI LIIE
84. What category of combat-relatedness best describes your third largest combat-related disability? Direct Result of Armed Conflict While Engaged in Hazardous Service	88. In 2002, did you have any of the following types of health insurance coverage? (Please mark YES or NO for each item-a through i-below.)
In the Performance of Duty Under Conditions	No Yes
Simulating War	п-доположения ста
Instrumentality of War	a. HMO/PPO
	b. Single
85. What percent disability did the VA attribute to this	c. Group
reason?	d. Individual
□ 0% □ 60%	e. Medicare
10% 70%	f. Supplemental
☐ 20% ☐ 80% ☐ 20°/	g. Medicaid
☐ 30% ☐ 90% ☐ 40% ☐ Total or 100%	
50%	h. Student plan
No. 200	i. Other (specify below)
Use and Cost of Medical Services	
	Please print
86. About how many miles would you have to drive, one way, to the nearest military hospital from your residence? (To indicate less than one mile, enter "0.")	89. In 2002, did you use TRICARE to pay for any medical care?
MILES	Yes
	☐ No
	90. In 2002, in addition to military retiree benefits, did you have any medical insurance/coverage paid by ? (Please mark YES or NO for each item—a through c—below.)
	No Yes
	a. Spouse's employer
	b. Yourself, private
	c. Yourself, military-contract

own health reasons? (Please mark YES or NO for	with each of the following:
each item–a through d–below.)	Unable to do
No	Severe difficulty
Yes	Moderate difficulty
a. A military facility (i.e., military clinic,	Slight difficulty
military hospital)	No difficulty
b. A civilian facility (i.e., doctor's office, clinic, hospital, civilian TRICARE contractor)	a. SEEING words or letters in ordinary newsprint (with glasses/contact lenses if you usually wear them)
c. Uniformed Services Family Health Plan facility (USFHP)	b. HEARING what is normally said in conversation with another person
d. Veterans Affairs (VA) clinic or hospital	(with hearing aid, if you usually wear one)
92. In 2002, were any of your family members eligible for retiree medical benefits? Yes	c. WALKING without assistance (human or mechanical) or using stairs
No ⇔ SKIP TO Question 94	d. LIFTING or carrying something as heavy as 10 pounds, such as a bag of groceries
93. <u>In 2002, did other members of your family</u> visit any	bay of grocenes
of the following for health reasons? (Please mark	
YES or NO for each item—a through d—below.)	96. An important factor in evaluating a person's health
a. A military facility (i.e., military clinic, military hospital) b. A civilian facility (i.e., doctor's office, clinic, hospital, civilian TRICARE contractor) c. Uniformed Services Family Health Plan facility (USFHP) d. Veterans Affairs (VA) clinic or hospital. 94. In 2002, how much "out-of-pocket" money did you and other family members who were eligible for	insurance situation is that person's current health status. Would you say that your health in general is ? Excellent Very good Good Fair Poor 97. Did you ever leave, or retire from, a civilian job for health reasons? Yes No
retiree medical benefits spend on medical care (including medical appliances, pharmacy drugs, dental care, and medical insurance charges, etc.) that was not reimbursed by insurance? (To indicate no "out-of-pocket" cost, enter "0.")	98. Do you have a health problem or disability which prevents you from working or limits your working ability (i.e., type or amount of work)? Yes, non-military-related
Write the amount spent in 2002 in the boxes. \$.00	Yes, military-related Yes, both military-related and non-military-related No
Or, if you wish, you can write in a range here. The "out-of-pocket" cost was at least:	

91. In 2002, did you visit any of the following for your

but no more than:

95. What is the USUAL degree of difficulty you have

99. During 2002, how many prescriptions did you fill or refill? (Please mark ONE answer for each type of pharmacy—a through e—below.) 25 prescriptions or more 19-24 prescriptions 13-18 prescriptions	102. Do you believe that the Armed Forces promised you free lifetime medical care? Yes Yes, but only on a "space available" basis No
7-12 prescriptions 4-6 prescriptions	Questions About You
a. Military medical pharmacy b. Military contracted pharmacy c. VA medical pharmacy e. TRICARE Mail Order Pharmacy (TMOP) 100. During 2002, how many times did you visit with a doctor, nurse, or other medical professional (including dental)? (Please mark ONE answer for each type of facility—a through d—below.) 25 times or more 19-24 times 13-18 times 7-12 times 4-6 times 1-3 times Not used a. Military medical facility b. Military contracted facility c. VA medical facility d. Civilian medical facility 101. During 2002, how many nights did you spend in a medical facility? (Please mark ONE answer for each type of facility—a through d—below.) 25 nights or more	103. What is the ZIP code for your present place of residence? ZIP CODE
a. Military medical facility b. Military contracted facility c. VA medical facility d. Civilian medical facility	certificate High school diploma Less than 2 years of college, but no college degree 2-year college degree (AA/AS) More than 2 years of college credits, but no 4-year college degree 4-year college degree (BA/BS) Some graduate school, but no graduate degree Master's, doctoral, or professional degree (MA/MS/PhD/MD/JD/DVM)

108. Do you rent or own your current residence? ☐ Rent ☐ Own, purchased while in the military ☐ Own, purchased after leaving military ☐ Rent lot, own home ☐ Other	For the next questions, the definition of "child or children" or "other legal dependents" includes anyone in your family, except your spouse, who has or is eligible to have a Uniformed Services identification card (military dependent ID card) or is eligible for military health care benefits and is enrolled in the Defense Enrollment Eligibility Reporting System (DEERS).		
109. Are you currently enrolled in any type of jobrelated training or schooling? Yes, enrolled full-time Yes, enrolled part-time No, not enrolled	115. Do you have a child, children, or other legal dependents based on the definition above? ☐ Yes ☐ No ☐ SKIP TO Question 117		
110. In what year did you retire from the military? Y Y Y Y Y YEAR	116. How many children or other legal dependents do you have in each age group? (Mark one answer in each row. To indicate none, enter "0." To indicate nine or more, enter "9.")		
111. What was your paygrade on the day before your retirement? E-1	AGE A. Under 12 years old B. 13-22 years old C. 23 years old or older 117. Can you personally access the Internet from the following locations? (Please mark ONE answer for each location—a through c—below.)		
112. In what Service were you when you retired from the military? Army Navy Arine Corps Air Force	Yes, anytime Yes, most of the time Yes, sometimes No/not applicable a. Your home b. Your workplace c. Another location (e.g., library, cyber café)		
113. How many years of active-duty service did you complete? YEARS 114. How old were you on January 1, 2002? YEARS OLD	118. In a typical week, how often do you access the Internet? Never Occasionally, but less than once per week About once per week Several times a week About once a day Several times a day		

following active for each active a. Obtaining b. Carrying oc. Purchasin	are you to use the Internet for the tivities? (Please mark ONE answer vity—a through d—below.) Very willing Somewhat willing Neither willing nor unwilling Very unwilling Very unwilling ut research on products . g goods or services	120. If this survey were a would you have con Yes No	
	COMM	IENTS	
21. Would you li	ike to know the results of this survey? I	f you are interested in bein	g notified when a brief
about this qu	ery much for completing and returning uestionnaire or about the issues raised Any comments you make on this ques	in this survey, please feel t	free to write them in the
			and the second s

Please accept our thanks for your help in this survey! Your responses will contribute to improved military personnel and retirement policies.

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14. ABSTRACT	Г						
This study des	scribes the meth	nodology unde	rlying the analysis of w	ork effort dec	cisions an	nd earnings estimates for military retirees	
using data fror	m the 2003 Sur	rvey of Retired	Military (2003 SRM),	supplemented	d with data	ta from the March 2003 Current Population	
						the estimation datasets were constructed	
				ology in detai	il, includi	ing the definition of alternative models	
designed to ad	dress empirical	I and data issue	\$ S.				
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