### AN ABSTRACT OF THE THESIS OF

<u>Jennifer R. Mawdsley</u> for the degree of <u>Master of Science</u> in <u>Human Development and Family Studies</u> presented on <u>November 4, 2003</u>.

Title: <u>Stressors, Resources, Perception, and Adaptation Among Military Women During Deployment.</u>

Abstract approved _	Redacted for Privacy	
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This study explored factors that lead to adaptation among married women in the military during the stressor of deployment. The Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983a, 1983b, 1983c) provided a strong theoretical model for this study, on which the empirical model for this study was based. In this study's empirical model, the variables that led to adaptation include the stressor event of military deployment, pile-up of demands (marital pile-up, family pile-up, financial pile-up, and job pile-up), resources (personal resources, family system resources, and social support resources), and perception (perception of deployment and perception of all). The 1999-2000 United States Air Force Community Needs Assessment was analyzed using Structural Equation Modeling and Multiple Hierarchical Regression.

The Structural Equation Modeling Analysis did not yield a path model and a Multiple Hierarchical Regression was executed in order to determine which variables in the path model contribute to adaptation. In this analysis, the independent variables were entered according to the theoretical consideration of the Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983a, 1983b, 1983c) and the

proposed path model. The results Multiple Hierarchical Regression indicate that pileup of demands and resources provided a significant contribution to adaptation. However, deployment and perception did not contribute to the variance in adaptation, which was incongruent to previous findings.

The most significant limitation of the study is the disadvantages of conducting a secondary analysis since measures available are less than ideal for the variables in the model. There were several benefits of the study, including the inclusion of women in the military, improvement of the Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983a, 1983b, 1983c), and potential early evaluation and intervention of families during periods of stress. Future research is indicated, focusing on extended deployments, qualitative studies exploring the role of perception in adaptation, other understudied population in the military (civilian husbands, men in the military, and dual military couples), and additional model improvement.

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## Stressors, Resources, Perception, and Adaptation Among Military Women During Deployment

by Jennifer R. Mawdsley

## A THESIS

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## DEDICATION

This thesis is dedicated to my parents. Thank you for your unwavering support and encouragement during this endeavor.

## Stressors, Resources, Perception, and Adaptation Among Military Women During Deployment

#### **CHAPTER 1: INTRODUCTION**

The old military saying, "if Uncle Sam wanted you to have a wife, he would have issued you one," is common and symbolic among the military, suggesting that wives and families interfere with the demands of military life (Amen, Merves, Jellen, & Lee, 1988; McCubbin, Dahl, & Hunter, 1976, p. 291). Although this saying is outdated in light of the growing population of female military members, it demonstrates the military's stance on family life. Military life is difficult for service members and their families, as they experience such stressors as extended separations, frequent relocations, isolation from the civilian community, a rigid rank structure, and the intense demands of the military culture (Lagrone, 1978). Of these strains, extended deployments are perhaps the most detrimental to a military family (Lagrone, 1978).

### Research Importance

This study fills three important gaps in military family research literature. First, existing research on the effect of military deployment on the marital relationship has focused on the civilian wife as the unit of analysis. This focus has been important since over 85 percent of military personnel are male, and half (51.4%) of all military members are married (Military Family Resource Center, 2001). However, with the growing population of female personnel, which accounts for 14.9 percent of the Department of Defense and 19.1 percent of active duty of Air Force service members (Military Family Resource Center, 2001), there is a need to understand the effect of military deployment on female military personnel, which this study provides.

Second, it makes sense to use the individual rather than the family as the unit of analysis in the Double ABCX model, as resource utilization, perception of the situation, and adaptation to the stressor event may differ between family members. Therefore, the unit of analysis for this study will be the individual military member and individual spouse versus the family unit. A review of Hill's (1949) ABCX Model of Family Stress and Coping and McCubbin and Patterson's (1983a, 1983b, 1983c) Double ABCX Model of Family Stress and Adaptation employ the family as the unit of analysis. Walker (1985), in contrast, points out that there is a disparity in the effect a particular stressor has on individual members of a family. Consequently, it is necessary to use the individual as the unit of analysis.

Third, a review of military family research reveals a lack of application of theory to research in this area (McClure, 1999). Many studies (e.g. Blaisure & Arnold-Mann, 1992; Blount, Lubin, & Curry, 1992; Knapp & Newman, 1993; Nice, 1983; Rosen & Moghadam, 1991; Rosen, Teitelbaum, & Westhuis, 1994; Schumm, Knott, Bell, & Rice, 1996; Wood & Scarville, 1995) have focused on the effect of military deployments on the marital relationship with little or no application of theory.

McClure (1999), however, asserts that some research on military families is based on the Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983a, 1983b, 1983c), which illustrates the process families undergo to adapt to a stressor event. In reviewing the military family literature, however, there is a lack of comprehensive discussion of the importance of symbolic interactionism theory and systems theory in this model.

## Benefits of Study

Besides filling important gaps in the literature, this study provides two benefits. First, as Bell and Schumm (1999) have acknowledged, we lack the means for regular interactions between government scientists and academic researchers. Hence, this study provides the desired interaction.

Second, McClure (1999) stated that the military possesses large databases that have not been fully analyzed due to the time constraints of military researchers and policymakers. This study overcomes this constraint by maximizing the Air Force's Community Needs Assessment data set.

### Research Question

This study aims to answer one primary question: What factors lead to positive adaptation among married active duty women in the military during the stressor of military deployment? This thesis will first present a literature review of research related to military deployments and stress theory. Second, research methods will be provided. Third, results of the analysis will be provided. Fourth, the results will be discussed. Last, the conclusion will discuss the usefulness of this study, the contributions to research it makes, the implications, and directions for future research.

#### CHAPTER 2: LITERATURE REVIEW

### Literature Review Introduction

Literature on the effects of military deployment have focused on the military wife (e.g. Knapp & Newman, 1993; Martin, 1984; McCubbin, Dahl, Lester, Benson, & Robertson, 1976; Rosen & Moghadam, 1991; Rosen, Moghadam, & Carpenter, 1989; Rosen, Teitelbaum, & Westhuis, 1994; Schumm, Knott, Bell, & Rice, 1996), children (e.g. Costello, Phelps, & Wilczenski, 1994; Jensen, Xenakis, Wolf, & Bain, 1991; Kelley, Hock, Smith, Jarvis, Bonney, & Graffney, 2001), and the family unit (e.g. Desivilya &: Gal, 1996; Jensen, Ronel, Lewis, & Xenakis, 1986; Kohen, 1984; Lagrone, 1978; Morrison, 1981; Zeff, Hirsch, & Lewis, 1997). Literature about the effect of deployment on the military member is limited to the topics of post-traumatic stress disorder (Stretch, Durand, & Knudson, 1998) and the adaptation to peacekeeping duty (Segal, Furukawa, & Lindh, 1990). Although one of these studies included women, it did not include the pile-up of stressors or use of resources. Further, literature regarding women in the military is scarce and limited to the health effects of working in extreme environments (Norwood, Gabbay, & Ursano, 1997) and the psychological aspects of pregnancy (Tam, 1998). In light of the lack of literature on the topic of women military members' adaptation to deployment, this literature review includes research about the effects and adaptation to military deployment for civilian wives in an effort to apply many of the factors civilian wives experience to women military members.

This literature review is comprised of six topics: military deployment, Hill's (1949) ABCX Model of Family Stress and Crisis, McCubbin and Patterson's (1983a, 1983b, 1983c) Double ABCX Model of Family Stress and Adaptation, the application of symbolic interactionism theory and systems theory to the Double ABCX Model, and the changes made to the Double ABCX Model in order to formulate the proposed structural equation model. While reviewing the literature of the Double ABCX Model, the foundation of this thesis, concepts from the symbolic interactionism and systems theories will be incorporated to demonstrate how these theories are embedded in the Double ABCX Model of Family Stress and Adaptation.

## Military Deployment

## Definition of Deployment

The Department of Defense Dictionary of Military and Associated Terms (2003) gives several definitions of the term "deployment." The term deployment can refer to the movement of military forces within operational areas, positioning forces into a formation for battle, or in the Navy, changing from a cruising approach to one ready for battle. The most pertinent definition to this study, however, refers to the relocation of military forces and equipment to desired operational areas (Department of Defense, 2003). This relocation of military forces involves a temporary military assignment for the service member in which his or her family remains at the military installation where the military member is permanently assigned. The terms military deployment, military tour, temporary duty, unaccompanied tours, and family separation will be used synonymously throughout this thesis.

### Duration and Form of Deployment

There is diversity in the duration and form of military deployment and consequent family separation among different branches of the service as well as within each branch of the military (Segal, 1986). During peacetime, soldiers are separated from their families to participate in activities such as military schooling, field training, sea duty, and unaccompanied (without their family) tours (Segal, 1986).

Navy and Marine Corps enlisted and officer personnel are separated from their families more frequently than Army and Air Force personnel, with 75 percent of families having experienced one or more extended periods of service member absence (Segal, 1986). Air force family separation rates were the lowest (8% of enlisted, 4% of officers) and Marine Corps separation the highest (23% of enlisted, 10% of officers) (Segal, 1986). These figures reflect extended separations and are not relevant to short periods of separation caused by temporary duty (TDY) or field training; therefore, the actual proportions of family-service member separation are considerably higher at any given time (Segal, 1986).

## Severity of Stress

Prolonged and enforced separation of the service member from the family is possibly the most severe job related stress a military family experiences (Knapp & Newman, 1993; Lagrone, 1978; Schumm et al., 1996). Several factors can influence the severity of stress during a deployment. For example, research has concluded that wives and families that have an accumulation of stressors are more susceptible to distress during an extended separation from their spouse (Lagrone, 1978). In another

study, researchers found a significant relationship between an Army wife's perceived level of stress and her psychological well-being (Knapp & Newman, 1993). Research has also found that separations have a negative effect on a family's adaptation to military life and that the impact is more negative for families of lower ranking soldiers (Schumm et al., 1996).

Factors Contributing to Stress During Deployment

Age is a prime predictor of depression among separated wives; younger wives are more likely to encounter separation related problems (Nice, 1983). Young wives are usually away from home for the first time, and their husbands tend to have lower pay grades, which increases the risk of maladjustment since they lack necessary coping and survival skills, coupled with possible financial difficulties (Blount et al., 1992). In addition, younger spouses are not yet familiar with the military system, and it may be a challenge to navigate their way throughout the organizational structure. Additional considerations are the age of the spouse and children, stage of family life, sex of children, parental attitudes, social supports, coping ability, adaptability skills, and past experiences with separation (Blount et al., 1992; Segal, 1986).

## Pile-Up of Stressors

There are several factors, called "pile-up stressors" in McCubbin and Patterson's (1983a, 1983b, 1983c) Double ABCX Model of Family Stress and Adaptation, that compound the stress of a deployment. In fact, research has concluded that wives and families with an accumulation of stressors are more susceptible to distress during an extended deployment from their spouse (Lagrone, 1978). In a study

of 74 Army wives whose husbands were deployed in the Persian Gulf, Knapp and Newman (1993) found that wives with an accumulation of stressors were more vulnerable to distress during an extended separation from their spouses. These pile-up factors can be categorized into four groups: marital pile-up, family pile-up, job pile-up, and financial pile-up.

Marital pile-up. Wood and Scarville (1995) report that during family separations, stressors such as marital strain, intensify the stress of the deployment. Additionally, Rosen and Moghadam (1991) conducted a study of 332 military wives that examined the impact of military life stress on the health and well-being of Army wives. They found that marital satisfaction was a significant predictor of general well-being in the military (Rosen & Moghadam, 1991).

Family pile-up. Literature indicates that family stressors increase the stress of military deployment (e.g. Blount et al., 1992; McCubbin & Patterson, 1983a, 1983b, 1983c; Segal, 1986; Wood & Scarville, 1995). Blount and his colleagues (1992) identify that stressors such as family conflicts, dysfunctional family relationships, and poor communication increase the possibility of unsuccessful adjustment. Moreover, Segal (1986) indicates that normative life events, such as couples who encounter new stages of family life--newly married couples or couples in periods of childbearing-are more likely to suffer difficulties during separation because they have had less time to solidify their relationships and establish new roles. Similarly, Wood and Scarville (1995) report that stressors such as impending childbirth (Segal 1986), child-care

difficulties, children's behavioral and emotional difficulties, intensify the stress of the separation.

Job pile-up. A frequently cited stressor in the military family literature is frequent relocation (e.g. Kohen, 1984; Segal, 1986; Wood & Scarville, 1995). Military mobility is a hardship that disrupts family life and requires family adjustments; a stressor such as a recent relocation may intensify the stress of separation (Segal, 1986; Wood & Scarville, 1995). Military relocation, particularly to foreign countries, U.S. territories, or overseas, takes military families geographically far from their extended families and friends, making contact with family and friends more difficult (Segal, 1986). Frequent relocation and short-term residences associated with the military also create isolation from the civilian community and social networks (Kohen, 1984).

Financial pile-up. Research reports that financial difficulties intensify the stress of separation and financial satisfaction, ultimately challenging the general well-being of families (Rosen & Moghadam, 1991; Wood and Scarville, 1995).

Researchers report that financial satisfaction correlates significantly with military rank (Jensen, Lewis, & Xenakis, 1986; Rosen & Moghadam, 1991; Segal, 1986). Segal (1986) stated that the negative impact of separation is greater in the lower ranks, and greater life and career satisfaction is reported by officers and higher-ranking enlisted members than by lower-ranking enlisted personnel (Jensen et al., 1991).

The disproportion of well-being and satisfaction among officers and higherranking enlisted soldiers may be attributed to the additional stressors that enlisted and lower ranking soldiers' families experience (Jensen et al., 1991; Segal, 1986). For example, service members who are new in their military careers and enlisted personnel have the least control over the timing and location of their transfers to other military bases (Segal, 1986). Military benefits, such as family housing on post, are also less accessible to lower ranking service members (Segal, 1986). Conversely, officers and higher ranking enlisted members have more advantages, such as a higher income, more control over geographic assignment, higher education, and vastly differing work situations (Jensen et al., 1986).

#### Resources

There are three types of resources that affect a family's adaptation to a crisis:

(a) family members' personal resources, (b) the family's internal resources, and (c) social support (Lavee, McCubbin, & Patterson, 1985; McCubbin & Patterson, 1983a). In general, families with the greatest social, financial, and emotional resources tended to adapt more successfully during a deployment (Bell & Schumm, 1999).

Personal resources. Personal resources are characteristics of individual family members that are available to other family members during a crisis (McCubbin & Patterson, 1983a). These personal resources can include financial, educational, health, and psychological resources (Lavee et al., 1985; McCubbin & Patterson, 1983a). Families with these resources who experienced a more positive adaptation were generally better educated, older spouses, who were more experienced with the military, and were married to higher-ranking senior non-commissioned officers (NCOs) and officers (Bell & Schumm, 1999; Rosen et al., 1994).

Family system resources. Family system resources are internal characteristics of the family unit. These resources can include family cohesion, adaptability, and communication (Lavee et al., 1985; McCubbin & Patterson, 1983a). Blount and his colleagues (1992) indicate that families with a poor pre-deployment attitude generally have a negative adaptation to the stress of deployment. Rosen and Moghadam (1991) report that the most important indicator of general well-being during the stress of deployment is the personality variable of mastery.

Social support resources. Social support resources come from outside the family (McCubbin, Sussman, & Patterson, 1980). Social support can include emotional support, esteem support, and network support (McCubbin & Patterson, 1983a).

In the military, family support refers to programs, policies, and efforts to support or enhance the quality of life of the families of military personnel (Pehrson & Thornley, 1993). Researchers report that these family support groups and other formal programs appear to be significantly effective in enhancing informal networks and systems; there is also evidence that providing support to families increases military readiness, retention, and productivity (Pehrson & Thornley, 1993; Wood & Scarville, 1995). In addition to military family support programs, a study by Pehrson and Thornley (1993) indicated that friends, family, and religious sources are important components in providing support to military families.

## Perception

Research has shown that there is a significant relationship between an individual's perception of the stress of deployment and their well-being, in that and individual's perceptions regarding the stressfulness of military life affects their well-being. Similarly, Knapp and Newman (1993) found that there is a significant relationship between an Army wife's level of perceived stress and her psychological well-being (Ickovics, 1987; Knapp & Newman, 1993).

### Adaptation

Family adaptation is the outcome variable of the stressor event of the deployment and the pileup of demands buffered by the family's resources (McCubbin & Patterson, 1983a, 1983b, 1983c). This variable is used to describe the outcome of the family's efforts to achieve a new level of balance in family functioning during the stressor event of a deployment and the pile-up of demands (McCubbin et al., 1983).

## The ABCX Model of Family Stress and Crisis

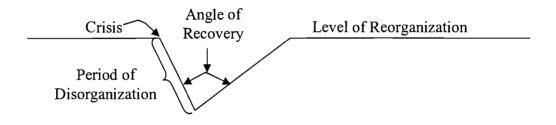
### Families Under Stress

Hill (1949) used the ABCX framework to guide a longitudinal study of families who were under the stress of war separation and reunion during World War II (McCubbin et al., 1983). The study included 216 families who were observed to determine how they dealt with the crisis (Hill, 1949). The goal of the study was to determine the characteristics and processes of families that enabled them to be successful or unsuccessful during a crisis (Hill, 1949).

### Course of Adjustment

Hill's (1949) study describes the families' course of adjustment following a crisis. Initially, families begin in a homeostatic state. Then stressor event occurs, in this case, the absence of a husband/father due to war, which upsets the homeostatic state of the family and causes a state of disorganization (Hill, 1949; Walker, 1985). Hill (1949) likens the process the family uses to go from the state of disorganization or crisis and return to homeostasis to that of a roller coaster (Walker, 1985). The parts of the roller-coaster profile of adjustment to crisis are: crisis  $\rightarrow$  disorganization crisis  $\rightarrow$  recovery crisis  $\rightarrow$  reorganization (Hill, 1949).

Figure 2.1. Roller-Coaster Profile of Adjustment to Crisis. Adapted from Hill, 1949.



### Factors in the ABCX Model

In the ABCX model, three factors determine whether a given event becomes a crisis for a family (Hill, 1949). The "A" factor represents the hardships of the situation or event itself; the "B" factor represents the resources of the family, its role structure, flexibility, and previous history with crisis; and the "C" factor represents the definition the family gives the event, that is, whether family members respond to the event as it

is were or were not a threat to their status, their goals, and their objectives. The combination of "A," "B," and "C" determines "X," the severity of the crisis (Hill, 1949; McCubbin et al., 1983).

## Application to Military Families

In terms of military families coping with deployment, the "A" factor is the actual deployment, the "B" factor is the family's resources, the "C" factor is the definition the family gives the deployment, and factor "X" is the severity of the crisis of the situation. The "X" factor is a combination of the deployment, the family's resources, and the definition the family gives the deployment. The model is relatively simplistic in that it does not account for time and other demands of the family. *Types of Crises* 

There are four concepts and characteristics that differentiate the types of crisis a family may experience. First, the severity of the crisis is important in the ABCX model. Since a crisis strains the resources of the family and forces the family to reshape their functioning, the more severe the crisis, the more strain there is on the family's resources (Hill, 1949). Second, the sources of crises differ. Some crises are extra-family and some are intra-family in origin (Hill, 1949). The crises represented in Hill's (1949) study are considered extra-family in origin because these crises are beyond the family's control. Third, the crisis in Hill's study (1949) is one of dismemberment, meaning there is a loss of a family member, albeit temporarily. This classification is determined by the impact upon the family unit (Hill, 1949; McCubbin & Patterson, 1983a). Last, the crisis involves demoralization, which means that there

is a loss of morale and family unity (Hill, 1949). All of these concepts are applicable to military families experiencing separation and reunion due to military deployment.

In addition to the A, B, C, and X factors in Hill's (1949) study, McCubbin and his colleagues (1983) discovered that Hill's study revealed at least four additional factors which influence a family's adaptation to a stressor event. These additional factors led to the formation of McCubbin and Patterson's (1983a, 1983b, 1983c)

Double ABCX Model of Family Stress and Adaptation, which will be described in the next section.

The Double ABCX Model of Family Stress and Adaptation

Differences Between the Models

Process aspect. The Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983a, 1983b, 1983c) is an extension of Hill's (1949) ABCX Model of Family Stress and Crisis. After reviewing their longitudinal observations of families during war-induced separation, McCubbin and Patterson (1983c) felt that a "more dynamic model was needed to explain" a families' ability to adjust to stressor events (p. 90). There are two major differences between the models. First, the Double ABCX Model adds the process as well as the outcome of the family's adaptation (McCubbin & Patterson, 1983a, 1983b, 1983c). Walker (1985) points out the importance of recognizing that stress and the responses to stress are processes rather than discrete events (Walker, 1985). Therefore, unlike Hill's (1949) ABCX Model, the Double ABCX model is represented over time to better represent the process of adaptation (McCubbin & Patterson, 1983).

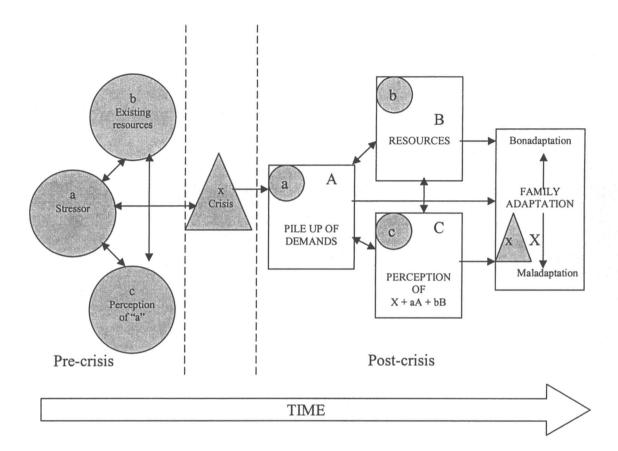
Contextual aspect. The second difference between the two models is that the Double ABCX Model is a more contextual model of family stress (Boss, 1987; McCubbin & Patterson, 1983a, 1983b, 1983c), as it emphasizes the extrafamilial and intrafamilial circumstances, which influence how the family members perceive the stressor event (Crosbie-Burnett, 1989; McCubbin & Patterson, 1983a, 1983b, 1983c).

For a study of military families coping with deployment, the additions of these concepts to the Double ABCX Model incorporate the process of the family's adaptation over a period of time and take into consideration extrafamilial and intrafamilial circumstances that military families encounter aforementioned (e.g. marital, family, job, and financial pile-ups).

### Model Variables

Accordingly, the Double ABCX Model redefines Hill's (1949) model by redefining pre-crisis variables by adding post-crisis variables. These post-crisis variables reflect the process and the context, as aforementioned. The redefined pre-crisis variables are as follows: (a) stressor, (b) existing resources, (c) perception of "a," and (x) crisis (Lavee et al., 1985; McCubbin & Patterson, 1983a, 1983b, 1983c). The post-crisis variables that the Double ABCX Model adds are as follows: (aA) pileup of demands, (bB) family adaptive resources, (cC) perception and coherence, and (xX) family adaptation (Lavee et al., 1985).

Figure 2.2. The Double ABCX Model of Family Stress and Adaptation (Adapted From McCubbin and Patterson, 1983a)



### Pre-Crisis Variables

Demands of stressor and hardships (a factor). The "a" factor is the stressor event affecting the family (McCubbin & Patterson, 1982, 1983a, 1983b; 1983c). There are several definitions of a stressor. One definition of stressors is a life event or transition affecting the family unit that produces, or has the potential of producing, change in the family social system (McCubbin & Patterson, 1983c; McCubbin et al., 1983). Hill (1949) defines stressors as life events or occurrences of ample magnitude

to bring about change in the family system. Voydanoff (1980) has a slightly different definition: stressors are problems requiring solutions or situations to which the family must adapt in order to maintain the functioning of the family system (Voydanoff, 1980).

Resources (b factor). The "b" factor, the existing resources to meet the demands of the stressor, can include personal resources, family system resources, or social support resources (Lavee et al., 1985). These resources are the family's tools for preventing the stressor event from becoming a crisis (McCubbin & Patterson, 1983a, 1983b, 1983c).

Family definition of stressor (c factor). The "c" factor is the definition the family makes of the seriousness of the event (McCubbin & Patterson, 1983a, 1983c). The family's definition or perception is considered the mediating role and has the potential to reduce the impact of stressful events (Howard, 1974). The definition the family gives the event is subjective and is reflective of the family's culture, values, and previous experience with the stressor (McCubbin & Patterson, 1983).

Family crisis (x factor). The "x" factor is the crisis or stress stemming from the event. Crisis refers to the amount of incapacity or disorganization in the family where resources are inadequate (Hill, 1949). This factor is inclusive of the event (a), the resources (b), and the definition of the event (c) (McCubbin & Patterson, 1983a, 1983b, 1983c). The combination of these factors determines the "x" factor to ascertain whether the event is a crisis or not. This factor of family crisis is the family's response not only to the stressor or the resources of the family, but is also a response to the

definition the family gives the event (Hill, 1949; LaRossa & Reitzes, 1993). This variable is conceptualized as a continuous variable that defines the magnitude of the effect of the stressor on the family (McCubbin & Patterson, 1983a).

If the family determines the event is incredibly stressful and they are vulnerable to the stressor, the family will be in crisis or a disorganized period. On the other hand, if the family determines the event is not stressful and they are not vulnerable to the stressor, the family will be able to reorganize during the event.

It makes sense, however, to use the individual rather than the family as the unit of analysis in the Double ABCX model, as resource utilization, perception of the situation, and adaptation to the stressor event may differ between family members. In fact, Walker (1985) points out that there is a disparity in the effect that a particular stressor has on individual members of a family. Therefore, the unit of analysis for this study will be the individual military member and individual spouse versus the family unit.

Application of pre-crisis variables to military families. In terms of the precrisis variables relatedness to military families, the first factor, the stressor (a), is the actual military deployment. As stated in the literature on military families, prolonged and enforced separation of the service member from the family is possibly the most severe job related stress a military family experiences (Knapp & Newman, 1993; Lagrone, 1978; Schumm et al., 1996). The next factor is the family's existing resources (b), which include personal resources, internal resources, and social support resources that the family already had. The family's perception (c) of factor "a" is the definition they give to the deployment. The last factor in the pre-crisis variables, crisis (x), is the level of disorganization in the family system as a result of the deployment stressor.

#### Post-Crisis Variables

Pile-up of family demands (aA factor). The aA factor, or the pileup of demands, refers to the cumulative effect of the pre- and post-crisis stressors and strains (McCubbin & Patterson, 1983a). The pileup factor can refer to any extraneous factors that the family may be experiencing at the time of the actual stressor (McCubbin & Patterson, 1983). Because family crises evolve and are resolved over a period of time, families seldom are dealing with a single stressor, but rather, they experience a pile-up of stressors and strains (McCubbin et al., 1983). These demands or changes may emerge from (a) individual family members, (b) the family system, and /or (c) the community of which the family and its members are a part (McCubbin et al., 1983a). The pile-up of these demands intensify the impact of the stressor event. This factor takes into consideration that families responding to a stressor encounter additional stressors both from their own development and from their efforts to cope (Walker, 1985).

Family adaptive resources (bB factor). The bB factor, family adaptive resources, includes existing resources or those accumulated in response to the stressor event (McCubbin & Patterson, 1983b). These adaptive resources buffer the effect of the pileup of demands and can help the family adapt to the stressor event (Lavee et al., 1985).

In the Double ABCX Model, there appears to be two general types of family adaptive resources: existing resources and expanded family resources (McCubbin et al., 1983). Existing resources are resources that are already part of the family's repertoire and assist in minimizing the impact of the initial stressor and reduce the probability that the family will enter into crisis (McCubbin et al., 1983). Expanded family resources are resources strengthened or developed in response to the additional demands from crisis situations or as a result of pile-up demands (McCubbin et al., 1983).

Family definition and meaning (cC factor). In the Double ABCX Model, the cC factor is the meaning the family gives to the total crisis situation. This factor includes the stressor that caused the crisis, the added stressors and strains, old and new resources, and estimates of what needs to be accomplished to bring the family back to a homeostatic state (McCubbin et al., 1983).

When families are able to redefine a crisis situation and give it new meaning, it involves efforts to (a) render issues, hardships, and tasks as more manageable; (b) decrease the emotional intensity associated with the crisis situation; and (c) encourage the family unit to carry on with its fundamental tasks of promoting member social and emotional development (McCubbin et al., 1983).

Family adaptation (xX factor). The xX factor, family adaptation, is the outcome of the stressor event and the pileup of demands buffered by the family's resources (McCubbin & Patterson, 1983a, 1983b, 1983c). Family adaptation is the fundamental concept in the Double ABCX Model and is used to describe the outcome

of the family's efforts to achieve a new level of balance in family functioning which was upset by the stressor event and pile-up of demands (McCubbin et al., 1983). The purpose of post-crisis adjustment is primarily to reduce or eliminate the disruptiveness in the family system and restore homeostasis (McCubbin et al., 1983).

Family adaptation is a continuous variable, ranging from maladaptation to bonadaptation, and families can fall anywhere on this continuum (McCubbin & Patterson, 1983a, 1983b, 1983c). Table 2.1 contains the continuum of family adaptation and characteristics of families at each end of the continuum.

Table 2.1. Continuum of Family Adaptation. Adapted from McCubbin & Patterson, 1983a.

Bonadaptation <del>•</del>	Maladaptation
Family integrity strong	Deterioration in family integrity
Member development enhances	Individual development curtailed
Family unit development enhanced	Family unit development curtailed
Family independence and control of environmental influence	Loss of family independence and autonomy

The positive end of the continuum of family adaptation, called bonadaptation, is exemplified by a balance between the demands and the family's adaptive resources, at which time the family is able to return to or maintain a homeostatic state (Lavee et al., 1985; McCubbin et al., 1983). The negative end of the continuum, called

maladaptation, is characterized by an imbalance at both levels of functioning which results in (a) the maintenance or strengthening of the family; (b) the continued support of individual family member development and family unit development; and (c) the maintenance of family independence and the family's sense of control over extrafamilial influences (McCubbin et al., 1983).

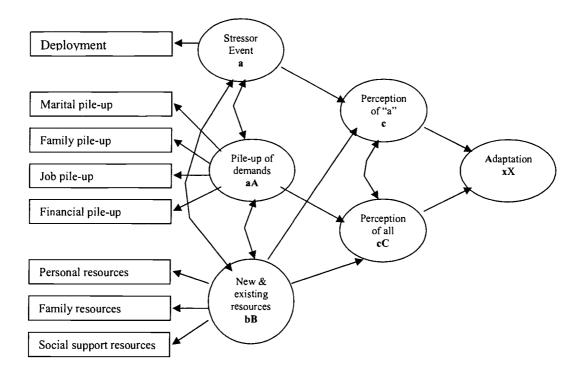
Stress arises when a stressor event demands more resources than a family is capable of gathering, thus threatening established and shared familial definitions and requiring adjustment or adaptation to avert disruption, disorganization, or dysfunction (Davis-Brown & Salamon, 1987). Crisis occurs when the family is unable to adjust or adapt to the stressor in a manner that achieves a new balance and restores stability (Davis-Brown & Salamon, 1987).

Family maladaptation means that the family has an imbalance of demands and capabilities for meeting these demands and is in a state of disorganization (Lavee et al., 1985; McCubbin & Patterson, 1983a). Maladaptation is characterized by a continued imbalance at either level of family functioning or the achievement of a balance at both levels but at a price in terms of (a) deterioration in family integrity; (b) a curtailment or deterioration in the personal health and development of a member or the well-being of the family unit; or (c) a loss or decline in family independence and autonomy (McCubbin et al., 1983). When the family is maladapted, they may experience depression or other negative effects.

Application of post-crisis variables to military families. The first post-crisis factor is the pile-up of demands (aA), which can include marital, family, job, and

financial pile-ups. As stated in the literature review of military families, Lagrone (1978) concluded that wives and families that have an accumulation of stressors are more susceptible to distress during an extended separation from their spouse. The next factor is the individual's adaptive resources (bB), which can include such things as additional personal resources, internal resources, or social support resources amassed to deal with the stressor event. This factor is important to the Double ABCX Model, as Bell and Schumm (1999) stated in their research that families with the most social, financial, and emotional resources tended to adapt best during a deployment (Bell & Schumm, 1999). The third factor is the individual's perception (cC) of the crisis. The individual gives this meaning to the total situation, including the stressor event, the pile-up of demands, new and existing resources, and the perception of the stressor event. Research has shown that there is a significant relationship between a military wife's perception of the stress of deployment and her well-being (Ickovics, 1987; Knapp & Newman, 1993). The last post-crisis factor is individual adaptation (xX). This factor refers to the outcome of the deployment, the pile-up of demands, the buffering effect of the new and existing resources, and the individual's perception of the situation. In general, families with resources have a more positive adaptation to military deployment (Bell & Schumm, 1999).

Figure 2.3. Proposed Structural Equation Model for ABCX Model of Military Deployment and Adaptation.



# Application of Theories to the Models

Symbolic Interactionism Theory

Symbolic interactionism, which emphasizes communication, self-concept, and social roles, involves associations between meanings and actions (LaRossa & Reitzes, 1993). Essentially, the formation of these meanings or symbols influences individuals' behavior (LaRossa & Reitzes, 1993). Individuals act on information they encounter as well as on the social reality they construct; in other words, humans behave according to their collective definition or meaning that they have for something (Hess & Handel, 1994; Whitchurch & Constantine, 1993).

Premises. There are three premises of symbolic interactionism: (a) human beings act toward things on the basis of the meanings that the things have for them, (b) the meaning of such things is derived from, or arises out of, the social interaction that one has with one's fellows, and (a) these meanings are handled in, and modified through, an interpretative process used by the person in dealing with the things he encounters (Blumer, 1969).

Application of Symbolic Interactionism Theory to the Model

Symbolic interactionism theory adds to the ABCX Model of Family Stress and Crisis (Hill, 1949) and the Double ABCX Model of Family Stress and Adaptation McCubbin & Patterson, 1983a, 1983b, 1983c) by emphasizing the significance of the individual's or family's perception of the stressor in the models. In the model, the individual or family creates a meaning for the stressor event, the pileup of stressors, and the resources. This interpretive process determines the meaning the individual

gives to the overall crisis of the situation. In this study, it may be that military women interpret their deployment in a positive manner, as they may have a different perception of the separation than a civilian individual since military members choose their unique lifestyle.

After giving meaning to the stressor (factor a or factor aA), an individual will modify the meaning of the situation (factor c or factor cC) by evaluating the resources (factor b or factor bB) available to meet the stressor. Their interpretation of the ability to balance the stressor (factor a or factor aA) with resources (factor b or factor bB) results in the perception of the crisis (factor c or factor cC) and thus the level of adaptation to the stressor event.

# Systems Theory

Systems theory is used to explain how objects are interrelated with one another (Whitchurch & Constantine, 1993). Components in a system are interdependent, or held together in a system; therefore, behaviors of the components exhibit reciprocal influence, meaning that what happens with one component generally affects every other component (Whitchurch & Constantine, 1993). Applied to families, this means that one family member's actions affect the other members of the family (Whitchurch & Constantine, 1993).

Systems theory considers families capable of change, adaptation, and restructuring (Olson, Sprenkle, & Russell, 1979). Families must be capable of adaptation to various normative and nonnormative stressors (Olson et al., 1979). There are four general assumptions in systems theory: (a) all parts of the system are

interconnected, (b) a system can only be understood as a whole, (c) a system's behavior affects its environment, and in turn, the environment affects the system, and (d) systems are heuristics (White & Klein, 2002).

One of the concepts of systems theory, negative feedback, particularly relates to the Double ABCX Model of Family Stress and Adaptation. The negative feedback loops work to restore or maintain a condition of dynamic equilibrium, a state known as homeostasis (Galvin & Brommel, 2000; Kast & Rosenzweig, 1976; Whitechurch & Constantine, 1993). When homeostasis is interrupted by either internal or external disturbances, the process of feedback uses information from its environment to adjust in order to reinstate homeostasis (Kast & Rosenzweig, 1976; Whitechurch & Constantine, 1993).

Application of Systems Theory to the Model

Systems theory relates to the Double ABCX Model of Family Stress and Adaptation because this theory explains how the different variables in the model (stressor, pileup of stressors, resources, perception) are interrelated to create adaptation. In the model, the stressor (factor a) brings disequilibrium to the family system. In response to the stressor (factor a), negative feedback occurs when the family or individual employs adaptive resources (factor b or bB) in an attempt to reorganize the system or to bring itself back to the state of homeostasis. If the family lacks adequate resources (factor b or factor bB) to balance the stressor (factor a) and the pileup of demands (factor aA), the family will be in a state of disequilibrium.

Factor x in the pre-crisis portion of the model represents a "period of disorganization"

in the family if it is vulnerable to the stressor (Kingsbury & Scanzoni, 1993).

Alternatively, if the family has enough resources (factor b and factor bB), the disorganization or disequilibrium will be reversed and reorganization will take place so that the family can return to homeostasis.

## New Model

Although the Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983a, 1983b, 1983c) is useful in describing a family's process from stress to adaptation, it is purely a theoretical model to organize concepts and it cannot be comprehensively analyzed (Lavee et al., 1985). In a decade review of family stress literature, McCubbin and his colleagues (1980) indicated the need to "develop research paradigms which include techniques such as path analysis, so we can begin to obtain a clearer picture of the ordering of these variables and, in turn, advance theory construction in this area of research" (pp. 866-867). In fact, in one study that attempted to analyze the Double ABCX Model using Structural Equation Modeling, the researchers indicate that they had to translate the theoretical model into an empirically testable model (Lavee et al., 1985). Therefore, the model proposed in this study, is also an adaptation of the Double ABCX in order for it to be tested using Structural Equation Modeling.

There are four differences between the Double ABCX Model of Family Stress and Adaptation and the model proposed in this study. The next section will discuss these differences. First, the model proposed in this study is not represented over time, which was one of the additions McCubbin and Patterson (1983a, 1983b, 1983c) made

to Hill's (1949) original ABCX Model of Family Stress and Crisis. Second, the new model combines the existing resources (b) variable and the new and existing resources (bB) into one resources variable. Third, the new model also does not show reciprocal relationships between the different variables, but instead shows associations between the stressor event and the pile—up of demands, between pile-up of demands and resources, and between perception of the stressor and perception of all. Last, the new model uses perception as a mediating variable between the stressor event, pile-up of demands, resources, and the outcome variable of individual adaptation. The following section is dedicated to describing these changes made to the Double ABCX Model in order for it to be analyzed.

Concept of time. One of the changes that McCubbin and Patterson (1983a, 1983b, 1983c) made to Hill's (1949) ABCX Model of Family Stress and Crisis was to represent adaptation over time since the responses to stress are processes rather than discrete events (McCubbin and Patterson, 1983a, 1983b, 1983c; Walker, 1985). This addition is one of the strengths of the Double ABCX Model. However, this aspect of the model is problematic when analyzing data from a cross-sectional study. Although the Community Needs Assessment Data set asked participants to answer questions that reflected their experiences during the last 12 months, this obviously did not provide the same representation of experiences over time as in longitudinal data. Therefore, the new model proposed in this study does not represent the concept of adaptation over time.

There are two variables that the lack of longitudinal data affects most in this model: existing resources (b) and new and existing resources (bB). The existing resources variable represents resources that the family has available for meeting the demand of the stressor. The new and existing resources variable represents the resources the family had before the stressor event occurred and those they acquired in response to the stressor event. In a cross-sectional study, such as the Community Needs Assessment, there is not a differentiation between the resources a family already had and those acquired specifically to buffer the stressor event. Additionally, existing resources may be measured twice in the model since it is measured in the existing resources variable (b) and in the new and existing resources variable (bB). In order to remedy this dilemma, the proposed empirical model includes one resource variable that includes all resources the individual may be utilize to buffer the effect of the stressor event and the pile-up of demands.

Reciprocal relationships. One of the major components of the Double ABCX Model is that it includes the presence of feedback, a concept described in systems theory. Feedback is represented with double arrows indicating the factors' reciprocal relationships that reflect the demands being met by the capabilities in order to achieve a balance or homeostasis (McCubbin & Patterson, 1983a). While this aspect is important in explaining the theoretical relationship between the factors in the Double ABCX Model, it would be impractical to perform a statistical analysis on a model that features this reciprocal feedback relationship. In fact, in two studies in which McCubbin and Patterson were involved, the researchers did not indicate a reciprocal

relationship in their structural equation model (i.e. Lavee, McCubbin, & Olson, 1987; Lavee, McCubbin, & Patterson, 1985). Instead, the proposed empirical model in these studies consisted of associations between factors that represent their influence on each other (Lavee, McCubbin, & Olson, 1987; Lavee, McCubbin, & Patterson, 1985). There are four associations that will be investigated in this study. These associations will be briefly explained in the following section.

The stressor event and pile-up of demands are associated in the new model because an item can be a pile-up demand due to the presence of the stressor event and the stressor event can be more stressful due to the presence of pile-up demands. For example, during an extended deployment, having children may become a pile-up demand because the civilian spouse essentially becomes a single parent. Moreover, deployment may be more stressful because the military member is worried about her children.

Pile-up of demands and resources are associated because pile-up of demands and resources may have positive relationships. For example, an individual with more pile-up demands may already employ more resources than a person with less pile-up demands. However, a person with more available resources may have less pile-up demands because these demands are buffered by the use of resources.

The stressor event and resources are associated because they influence each other in that existing resources can buffer the effect of the stressor event that the stressor event can lead to accumulation of needed resources to buffer the stressor event.

Further, the perception of the stressor event and the perception of all of the factors are associated because these factors overlap. A positive perception of the stressor event may indicate a positive perception of all of the factors and vice versa.

Role of perception. Boss (1986) indicates that the definition of the situation has been the least investigated factor in the family stress model. However, Lavee, McCubbin, and Olson (1987) point out that the belief that cognitive processes of perception and appraisal are critical mediators between stressful events and their outcomes have gained prominence in both psychological and family stress theories.

The role of perception in the Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983a, 1983b, 1983c) is not indicated by a direct path from the perception of the stressor (c) to family adaptation (xX); instead, perception is represented through a reciprocal path with the stressor event and through existing resources and with a direct path from the perception of all of the factors (cC) to adaptation, but also specifies reciprocal paths between pile-up of demands and new and existing resources.

In Hill's (1949) original ABCX Model of Family Stress and Crisis, he proposed that the way families defined events accounted for the presence or prevention of a crisis (Lavee, McCubbin, & Patterson, 1987). McCubbin and Patterson (1983c) indicate that not only does perception play a useful role in facilitating family coping and adaptation, but perception is a critical component in family coping in that it "facilitates family coping and adaptation" (McCubbin and Patterson, 1983a, p. 18). In fact, McCubbin and Patterson (1982, 1983b) theorized that in a post-crisis situation,

perception of the total situation is a critical factor in predicting family adaptation (Lavee, McCubbin, & Olson, 1987).

A couple of studies reflect the importance of perception as a mediating variable in the Double ABCX Model of Family Stress and Adaptation. For instance, Lavee, McCubbin, and Olson (1987) suggest in their empirical model that a sense of coherence would be a mediating factor between the various sources of demand and perceived well-being. Similarly, Lavee, McCubbin, and Patterson (1985) indicate that perception is an intervening factor between crisis and adaptation and is another facilitator of the family's adaptive power. They also state that the ability to perceive the overall situation is of great value to the family in facilitating its adaptation (Lavee, McCubbin, & Patterson, 1985). In fact, the researchers indicate that the confirmatory factor analysis used in their study suggested a stronger tie between coherence and adaptation than were proposed in their empirical model (Lavee, McCubbin, & Patterson, 1985).

Research on military wives has shown a significant relationship between a military wife's perception of the stress of deployment and her well-being (Knapp & Newman, 1993). In other words, a wife's perception regarding the stressfulness of the military life affects her well-being. Similarly, Knapp and Newman (1993) found that there is a significant relationship between an Army wife's level of perceived stress and her psychological well-being (Ickovics, 1987; Knapp & Newman, 1993). Further, Lavee, McCubbin, and Patterson (1985) indicated that coherence occurs when the overall situation is perceived and judged. Symbolic interactionism theory supports this

premise in that the formation of meanings influences an individuals' behavior, in this case adaptation (LaRossa & Reitzes, 1993). If so, perception must be a mediating factor in which an individual perceives the combination of the stressor event, pile-up of demands, and resources in order to achieve adaptation.

As such, the model proposed in this study represents perception as a mediating factor between the stressor event, pile-up of demands, and resources. In essence, the combination of these factors are first perceived by the individual before the individual may adapt to the stressor event and their pile-up of demands. After giving meaning to the stressor (factor a or factor aA), an individual will modify the meaning of the situation (factor c or factor cC) by evaluating the resources (factor b or factor bB) they have available to meet the stressor. Their interpretation of the ability to balance the stressor (factor a or factor aA) with resources (factor b or factor bB) results in the perception of the crisis (factor c or factor cC) and thus the level of adaptation to the stressor event.

#### **CHAPTER 3: METHODS**

The Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983a, 1983b, 1983c) provides a strong theoretical model for this study, on which this study's theoretical model is founded. Both the ABCX Model (Hill, 1949) and Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983) and the ABCX Model of Family Stress and Crisis (Hill, 1949) use the family unit as the unit of analysis. This study, however, focuses on the individual military member as the unit of analysis rather than the family unit, as each member in the family unit may not experience the stressor, pile-up of demands, and resources in the same way, resulting in different levels of adaptation.

This chapter, which presents the study's methodology, is comprised of five major sections: the methods of the Air Force's 1999-2000 Community Needs

Assessment (CNA), the methods for preparing the data for analysis, the variables included in both analyses, statistical methods for the Structural Equation Model, and statistical methods for the Multiple Hierarchical Regression model.

### Community Needs Assessment Methods

# Purpose

This study utilizes data from the 1999-2000 United States Air Force

Community Needs Assessment, which is the fourth comprehensive survey of the Air

Force that assesses community programs and services. The Community Needs

Assessment is conducted every two years and includes information about the

participants' background, military life, individual and family issues, community

programs and services, the participants' children, and child and youth programs.

Appendix A contains the Community Needs Assessment survey and Appendix B contains the Community Needs Assessment codebook.

#### Data Collection

Sampling. Data collected for the Community Needs Assessment includes information about military personnel and their spouses at each of the 82 United States Air Force bases in the world. The assessment was conducted using a random sampling method of active duty members and their civilian spouses, independent of each other. Junior enlisted military members (E1-E4), active duty military members, and civilian spouses were intentionally oversampled due to low response rates from these groups in the past (Caliber Associates, 2000). The sample of active duty members was drawn by the Air Force's personnel center. The sample of spouses was drawn from the Defense Enrollment Eligibility Reporting System (DEERS) data that were provided by the Defense Manpower and Data Center (DMDC). The survey distribution and collection was performed from October through December 1999. Active duty members received and completed their surveys at their duty stations. Surveys were mailed directly to civilian spouses with a business return envelope. There was no follow-up for unreturned surveys.

Response rate. Of the 167,611 surveys distributed, 58,732 completed surveys were returned. Of these, 35,732 were from active duty members and 22,194 were from civilian spouses. The overall response rate was 38%. The response rate was more than

double for active duty members compared to civilian spouses, 55% verses 25%, respectively.

# Preparing the Data

Selecting Cases

Since the Community Needs Assessment data set is quite large (N = 58,732) a more manageable subset of data was created containing only the cases that would be analyzed. With the growing population of women in the military, there is a need to study the effect of military deployment on female military personnel. Since this study focused on women who were active duty military members, married, and had experienced deployment, and the data set was narrowed down using this criteria.

First, cases in which the participant was a woman were selected using a question that asks the participant if they are male or female (Q2 = 2). Second, cases in which the participant indicated she was an active duty military member were selected using a question from the survey that asked the participant if she was an active duty military member (Q7 = 2). Third, only cases in which the participant was married were selected using a question in the survey that asked the participant her current marital status (Q3 = 1). Last, cases in which the participant was deployed during the past 12 months were selected if the participant indicated the total times and total days she had been gone for TDYs, deployments, or trainings during the past 12 months (Q12\_1  $\neq$ 0; Q12\_2  $\neq$ 0). Although the above criterion considerably decreased the number of cases in the data set, 1,819 cases met these criteria.

Missing Values

Several of the items used in the proposed Structural Equation Model contained missing values. In order to provide the most concise statistical analysis, missing values were imputed using SPSS 10.0. A missing value analysis on individual items was conducted before items were combined to create scale variables and index variables. Items in Table 3.1 with an "i" after the variable value have been imputed using expectation maximization. Table 3.1 also contains items in the model and the number of missing values before imputation for each item.

Although the most common approach to missing data is to use Listwise Deletion, this technique simply omits cases with missing data and an analysis is executed only on the cases that remain (Norusis, 2000). Unfortunately, this technique results in a substantial decrease in sample size. Since the significance of a structural equation model is partly based on sample size, Listwise Deletion was not the best option.

The missing value analysis in SPSS 10.0 uses a technique called Expectation Maximization. There are two steps in Expectation Maximization. In the expectation step, SPSS computes expected values based on the observed data and the current estimates of parameters. In the maximization step, SPSS calculates maximum likelihood estimates of the parameters based on values computed in the expectation step.

### Scale Variable

Since each variable in the structural equation model can only have one measure, scale variables and index variables were created in order to produce a more

substantial measure of these factors. These scale and index variables are detailed in the next section and listed in Table 3.1.

A reliability analysis was executed in SPSS to determine the appropriateness of the items in the scales. Such an analysis indicates the ability of a measurement tool to consistently give similar results for similar inputs (Keppel & Zedeck, 1989). The assumptions of alpha include: non-biased scale, items have similar mean and standard deviations, and items should have approximately equal correlation values (Keppel & Zedeck, 1989). The items in the scales created for this analysis meet all of the required assumptions.

Ideally, the standardized item alpha should be greater than .80 to be able to say that the scale has good reliability. The reliability analyses show that the scales for social support ( $\alpha_{std} = .88$ ), perception of all ( $\alpha_{std} = .8843$ ), and job pile-up are reliable ( $\alpha_{std} = .88$ ). The scale variables for family resources ( $\alpha_{std} = .71$ ) and adaptation are fairly reliable ( $\alpha_{std} = .7089$ ).

### **Variables**

Measures included in the proposed path model are detailed in the following section, organized by its category in the model. Exogenous variables are discussed in the first section and endogenous variables are discussed in the second section. Table 3.1 contains the exogenous and endogenous variables; this table is categorized according to the Structural Equation Model (i.e. stressor event, pile-up of demands, resources, perception of the stressor, perception of all, and adaptation).

Each measure is denoted with its corresponding variable value for ease of location in the 1999-2000 Air Force Community Needs Assessment Survey (Appendix A) and the 2000 Air Force Community Needs Assessment Survey Code Book (Appendix B). Values followed by an 'r' have been recoded and values followed by an 'i' indicate where missing values imputed. Recoding of items will be discussed in the variable's corresponding section.

# Exogenous Variables in the Model

Stressor event. As mentioned in the literature review, the "a" factor in the model is the stressor event affecting the family (McCubbin & Patterson, 1982; 1983a; 1983b; 1983c). In this study, the stressor is military deployment. The item for this measure is drawn from a single question in the Community Needs Assessment Survey (Appendix A) and codebook (Appendix B). The question for this measure focuses on the total number of days the participant has been away for TDYs (temporary duty), deployments, or trainings during the past 12 months (Q12 2).

Pile-up of stressors. The next factor in the model is the pile-up of stressors, which refers to the cumulative effect of the pre- and post-crisis stressors and strains (McCubbin & Patterson, 1983a). As stated in Chapter 2, the pile-up factor can refer to any extraneous factors that the family may be experiencing at the time the stressor event occurs (McCubbin & Patterson, 1983a). Measures for the pile-up factor are divided into four categories: marital pile-up, family pile-up, job pile-up, and financial pile-up.

The measure for the first category of pile-up of demands, marital pile-up, focuses on the strength of the marital relationship. This measure indicates how often during the past year the participant has wondered if she should continue her relationship (Q29ri). Answers for this question are based on a four-point Likert scale and were reverse coded so that higher scores indicate more thought about whether or not to continue the relationship and lower scores indicate less thought (1 = never, 2 = rarely, 3 = sometimes, 4 = often). This measure is important for the model because Wood and Scarville (1995) have reported that during family separations, stressors such as marital strain intensify the stress of the deployment.

The measure for the second category of pile-up of demands, family pile-up, focuses on strains associated with family members. This measure (fampile) is an index variable that includes seven items from the Community Needs Assessment data set. The first item is part of a multi-part question that asked the participant to indicate events that have occurred in their family during the past 12 months, one of which was the birth or adoption of a child (Q27\_3). The second and third items indicate whether the participant had adults or children in their home who had a physical, mental, emotional, or developmental disability or a serious or chronic medical problem (Q35\_1ri; Q35\_2ri). If the participant did in fact have an adult of child in their home with a disability or chronic medical problem, the participant was asked to indicate whether the adult or child was enrolled in EFMP. Since these items are included in an index variable which counted how many stressors the participants had present in her life, both of these items were recoded to combine two options: "yes (enrolled in

EFMP)" and "yes (not enrolled in EFMP)." The next few items for family pile-up of demands are part of a multi-part question that asked the participant to indicate events that have occurred in their family during the past 12 months: juvenile behavior problems in the participant's family (Q27\_11), a family member with a serious health problem (Q27\_17), taking on responsibility for an older family member (Q27\_18), or a death of a family member (Q27\_5). The last item in the family pile-up variable indicates whether a participant was providing any assistance (monetary, emotional, errands, etc.) to an older family member (Q34ri). This item was recoded so that the options of "yes, claim older family member as dependent" and "yes, but don't claim older family member as dependent" became one option; as long as the participant provided assistance to an older family member, this item is considered a pile-up demand, whether or not the participant claims the family member as a dependent. This item was then reverse coded so that lower scores would indicate less pile-up and higher scores would indicate more pile-up (0 = no, 1 = yes).

Measures for the third category of pile-up of demands, job pile-up, focus on issues related to the military member's job. Several items were combined to create a scale variable (jobpile), which indicate how many situations from a list of job situations impact the participant's ability to perform her military duty to the best of her ability during the past six months. Each of these job situations is scored on a four-point Likert scale with lower scores indicating less impact and higher scores indicating more impact  $(1 = not \ at \ all, 2 = slight \ extent, 3 = moderate \ extent, 4 = great \ extent)$ . Originally, the Likert scale included a "does not apply" option  $(5 = does \ not \ apply)$ .

Since "does not apply" is not more than "great extent" and not less than "not at all," this option posed a problem in the Likert scale. Therefore, these items were recoded so that the "does not apply" option was combined with the "not at all" option. This choice was rationalized in the fact that if a job situation does not apply to a participant because they have not experienced the particular situation, then the situation also does not influence their ability to perform their military duty. Items for this measure include unpredictable work schedule (Q19\_1ri), high OPSTEMPO (high operation tempo or pace) (Q19\_2ri), reduced manpower due to deployment (Q19\_3ri), 12-hour shifts (Q19\_4ri), rotating shifts (Q19\_5ri), working after 1800 hours (6 p.m.) (Q19\_6ri), working weekends (Q19\_7ri), swing shifts (Q19\_8ri), midnight shifts (Q19\_9ri), conflict with supervisor (Q19\_10ri), and a conflict with coworker (Q19\_11ri).

The last category in pile-up of demands is financial pile-up of demands. The measure in this category indicates how many months the participant found it difficult to pay her bills during the past 12 months (Q32). The rationale for this measure is founded on evidence that financial difficulties intensify the stress of separation and financial satisfaction, ultimately challenging the general well-being of military wives (Rosen & Moghadam, 1991; Wood and Scarville, 1995).

Resources. The next factor in the model is the family's or individual's resources. Measures for this factor are divided into three categories: personal resources, family system resources (internal resources), and social support.

Measures for the first category, personal resources, focus on assets of individual family members that are available to other family members during a crisis

(McCubbin & Patterson, 1983a). The measure for the personal resources category is the military member or spouse's pay grade (Q9). Pay grades E-1 through E-5 indicate junior enlisted personnel, E-6 through E-9 indicate staff non-commissioned officers and senior enlisted personnel, and O-1 through O-6 indicate commissioned officers. Higher pay grades are considered resources since literature indicates that families who had a more positive adaptation were generally better educated, older spouses, who were married to more senior non-commissioned officers and officers (Bell & Schumm, 1999; Rosen et al., 1994). Additionally, officer status indicates a college education, which is considered a personal resource.

The second category of resources is family system resources. As discussed in the literature review, family system resources are internal characteristics of the family unit. These resources can include cohesion, adaptability, and communication (Lavee et al., 1985; McCubbin & Patterson, 1983a). The measure for this category is a scale variable (famresi) created by combining two measures. The first item in the scale variable measures the cooperation of all members of the family to get things done (Q23\_1ri). This item is based on a five-point Likert scale with lower scores indicating less chance of getting things done and higher scores indicating more chance of getting things done (1 = there is almost no chance that things will get done, 2 = there is some chance that things will get done, 3 = there is a moderate chance that things will get done, 4 = there is a good chance that things will get done, 5 = things will always get done). The second item in the scale indicates the family's hope of solving a tough problem (Q23\_2ri). This item is based on a five-point Likert scale with lower scores

indicating less hope of solving the problem and higher scores indicating more hope of solving the problem (1 = there is no hope of solving the problem, 2 = there is some hope of solving the problem, 3 = there is moderate hope of solving the problem, 4 = there is a lot of hope of solving the problem, 5 = we will solve the problem). Both of these items have a "does not apply" option. Since all participants in the subset of data that was to be analyzed were married, they all have families. There was no rationale for these questions not applying to the participants. Therefore, the "does not apply" option was coded as missing data because the participants may not have understood the question or did not consider that a marital dyad fits into the definition of a family.

The last category for the factor of resources is social support resources. Measures for social support resources focus on community support for families. The measure for this category is an index variable created by counting how many people or resources the participant turns to for help with personal and family problems. The items used to create this index indicate whom the participant turns to for help with a personal problem (Q33A\_1 to Q33A\_11) and for help with a family problem (Q33B\_1 to Q33B\_11) (0 = unmarked, 1 = marked), and were summed across the two types of problems to indicate all of the people or resources the participants used. The following are options offered for these questions: no one (Q33A\_1; Q33B\_1), friend (Q33A\_2; Q33B\_2), coworker (Q33A\_3; Q33B\_3), spouse (Q33A\_4; Q33B\_4), other family member/extended family (Q33A\_5; Q33B\_5), neighbor (Q33A\_6; Q33B\_6), unit commander (Q33A\_7; Q33B\_7), first sergeant (Q33A\_8; Q33B\_8), supervisor

(Q33A\_9; Q33B\_9), service provider on base (Q33A\_10; Q33B\_10), and service provider off base (Q33A\_11; Q33B\_11).

Endogenous Variables in the Model

Perception of the stressor. The "c" factor is the definition the family makes of the seriousness of the stressor event (McCubbin & Patterson, 1983a; 1983c). The measure for this factor is an index variable created with two items which ask the participant to mark the top five issues of concern across the Air Force. If the participant marked the number of deployment/TDYs (QB45\_10) or the length of deployment/TDYs (Q45B\_11) as one of their top five concerns in the Air Force then these items were counted in the index (0 = unmarked, 1 = marked).

Perception of all. The factor, perception of all, refers to the meaning the family or the individual gives to the total crisis situation. Perception includes the definition of the stressor that caused the crisis, the added stressors and strains, old and new resources, and estimates of what needs to be accomplished to bring the family back to a homeostatic state (McCubbin et al., 1983). However, for empirical reasons in selecting items to measure this variable, the measures for this variable were narrowed down to a perception of the participant's social support. This category is measured by a scale variable (deploysup), created with several items, and measures the participant's perception of supportiveness of groups or programs when their spouse is deployed or TDY. For these items (Q43\_1r to Q43\_13r), the participants was asked to rate their satisfaction level with each group or program while their spouse is deployed; these items are based on a three-point Likert scale, with lower scores indicating less support

and higher scores indicating more support (1 = not at all supportive, 2 = somewhat supportive, 3 = very supportive). These items also had an option of "no experience" with the group or program. If a participant did not have experience with a group or program, this means that the group or program is not a support to them. Because of this, these items have been recoded so that the "no experience" option was combined with the "not at all supportive" option. The groups and programs are as follows: wing leadership (Q43\_1r), group leadership (Q43\_2r), unit leadership (Q43\_3r), supervisor (Q43\_4r), unit spouses (Q43\_5r), neighbors (Q43\_6r), chapel (Q43\_7r), child development and youth programs (Q43\_8r), family advocacy program (Q43\_9r), family support center (q43\_10r), mental health (Q43\_11r), health and wellness center (Q43\_12r), and civilian community resources (Q43\_13r).

Adaptation. Adaptation is the outcome variable in the model which is the outcome of the stressor event, pileup of demands, and resources buffered by the individual's perception (McCubbin & Patterson, 1983a; 1983b; 1983c). The first measure for the outcome variable of adaptation is a scale variable created by two items. The first item indicates the participant's success at managing his or her duty (work) responsibilities (Q21\_1r) and the participant's success at managing his or her family responsibilities (Q21\_2r). These measures are based on a five-point Likert scale, with lower scores indicating less success and higher scores indicating more success (1 = not at all successful, 2 = somewhat successful, 3 = moderately successful, 4 = very successful, 5 = extremely successful). These items also have a "does not apply" option. Since all of these items pertain to the participants in the subset of data

(they are all married and all active duty military), if the participant marked "does not apply," this was taken that the participant did not understand the question. Therefore, the "does not apply" option was recoded as missing data and values were imputed using a missing values analysis.

Table 3.1. Variables for Deployment, Pile-up of Demands, Resources, Perception, and

# Adaptation Model.

Variable in Model	Measure	Variable Name	Missing Values
Deployment	For TDYs, deployments, or trainings in the past 12 months, please indicate how many total days you have been away.	Q12_2	0
Pile-up of demands			
Marital pile-up	How often in the past year have you wondered whether you should continue your relationship?	Q29ri	20
Family pile-up	For the events listed below mark those that have happened in your family in the past 12 months: birth of child(ren)/ adoption	Q27_3	0
	Do any children living in your home have a physical, mental, emotional, or developmental disability or a serious or chronic medical problem?	Q35_2r	95
	Do any adults living in your home have a physical, mental, emotional, or developmental disability or a serious or chronic medical problem	Q35_1r	114
	For the events listed below mark those that have happened in your family in the past 12 months: juvenile behavior problem	Q27_11	0
	For the events listed below mark those that have happened in your family in the past 12 months: serious health problems	Q27_17	0
	For the events listed below mark those that have happened in your family in	Q27_18	0

	the past 12 months: taking on responsibility for older family member		
	Are you providing any assistance (monetary, emotional, errands, etc.) to an older family member?	Q34r	23
	For the events listed below mark those that have happened in your family in the past 12 months: divorce/separation	Q27_5	0
Job pile-up	In the past six months, to what extent did any of the following job situations impact your ability to perform your military duty the best you can?		
	Unpredictable work schedule	Q19_1r	192
	High OPSTEMPO	Q19_2r	209
	Reduced manpower due to deployment	Q19_3r	189
	12 hour shifts	Q12_4r	195
	Rotating shifts	Q19_5r	194
	Working after 1800 hours	Q19_6r	198
	Working weekends	Q19_7r	194
	Swing shifts	Q19_8r	198
	Midnight shifts	Q19_9r	197
	Conflict with supervisor	Q19_10r	191
	Conflict with coworker	Q19_11r	193
Financial pile-up	In the past 12 months, how many months have you found it difficult to pay your bills?	Q32	41

Resources			
Personal resources	What is your or your spouse's pay grade?	Q9	26
Family system resources	When we have to get things done that depend on cooperation of all members of the family level of chance that things will get done	Q23_1r	91
	When my family faces a tough problem level of hope of solving the problem	Q23_2r	61
Social support	Who do you turn to for help with a personal problem (A)? Family problem (B)?		
	Friend	Q33A_2 Q33B_2	0
	Co-worker	Q33A_3 Q33B_3	0
	Spouse	Q33A_4 Q33B_4	0
	Other family member/extended family	Q33A_5 Q33B_5	0 0
	Neighbor	Q33A_6 Q33B_6	0
	Unit commander	Q33A_7 Q33B_7	0
	First sergeant	Q33A_8 Q33B_8	0
	Supervisor	Q33A_9 Q33B_9	0
	Service provider on base	Q33A_10	0

		Q33B_10	0
	Service provider off base	Q33A_11	0
		Q33B_11	0
Perception Perception of	Mark the top five issues of concern	Q45_10	0
stressor	across the Air Force as a whole: number of deployment/TDYs		
	Mark the top five issues of concern across the Air Force as a whole: length of deployments/TDYs	Q45B_11	0
Perception of all	How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse was deployed or TDY in the past 12 months?		
	Wing leadership	Q43_1r	173
	Group leadership	Q43_2r	170
	Unit leadership	Q43_3r	163
	Unit spouses	Q43_4r	179
	Neighbors	Q43_5r	176
	Chapel	Q43_6r	208
	Child development and youth programs	Q43_7r	194
	Family advocacy program	Q43_8r	210
	Family support center	Q43_9	198
	Mental health	Q43_10r	211

	Health and wellness center	Q43_11r	207
	Civilian community resources	Q43_12r	196
Individual adaptation	At the present time, how successful are you at managing your duty responsibilities?	Q21_1r	170
	At the present time, how successful are you at managing your family responsibilities?	Q21_2r	177

Note. N = 1819. The letter 'r' after a variable name indicates that the variable was recoded. The letter 'i' after a variable name indicates that missing values were imputed. All items are located in the 1999-2000 Air Force Community Needs Assessment Survey and the 1999-2000 Air Force Community Needs Assessment Code Book (Appendix A and Appendix B, respectively).

# Structural Equation Modeling

Structural Equation Modeling was used to analyze the data by means of a widely used program, Linear Structural Relations (LISREL 8.5) (Byrne, 1998). Structural equation modeling is a large-sample technique, and most models require at least 200 or 300 cases (Kline, 1998). The subset of the Community Needs Assessment created for this analysis meets this criteria (N = 1819).

Since the Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983) contains the concept of adaptation over time, a longitudinal analysis would be ideal. However, the Community Needs Assessment is not a longitudinal data set; therefore, the Structural Equation Model used for this study was adapted to represent a cross-sectional study, thereby revising the existing Double ABCX Model (McCubbin & Patterson, 1983). However, since many of the questions ask respondents to answer questions retrospectively about deployment, pile-up demands, use of resources, and perceptions during the past 12 months, the Double ABCX conceptual model can be justified. The proposed path diagram is the study's model, represented in Figure 4.

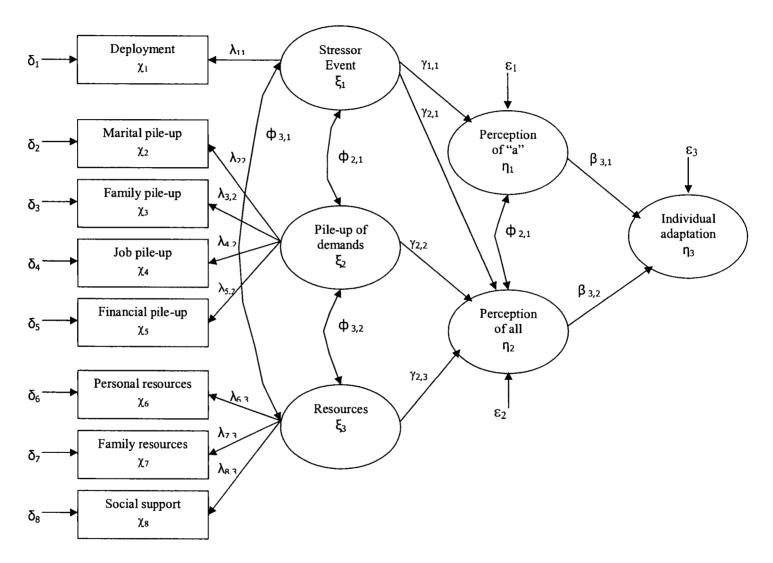


Figure 3.1. Proposed path-analytic model: Association of deployment, pile-up of demands, resources, perception of deployment, and perception of all factors on adaptation.

First, matrices were created for Lambda-X, Beta, Gamma, Psi, and Theta-Delta; these matrices are presented in Appendix C. Next, a measurement model and structural model were created. These models are presented in Appendix D. Third, correlations and standard deviations were executed on all of the variables in the model, as this information is needed to create the LISREL syntax. Fourth, the syntax was written in order to execute the Structural Equation Model; this syntax is presented in Appendix E.

## Regression

Since the Structural Equation Model that was specified failed to converge after 300 iterations, and there was no way to theoretically modify the model to make it converge, a Multiple Hierarchical Regression was executed in order to determine which variables in the path model contribute to adaptation among married women in the military. SPSS 10.0 was used to run the Multiple Hierarchical Regression.

Regression analysis is a statistical technique used to assess the relationship between a dependent variable and several independent variables (Tabachnick & Fidell, 1996). In this study, the independent variables were entered into the analysis according to the theoretical consideration of the Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983a; 1983b; 1983c) and in the order of the proposed Structural Equation Model. The measures for all variables used in the regression are the same as those used in the Structural Equation Model. These variables are listed in Table 3.2 and were detailed previously in this chapter.

First, independent variables (x-variables) were entered in the regression analysis. The stressor event of deployment was evaluated in the first model. The second model added the variable of pile-up, which includes family pile-up, marital pile-up, job pile-up, and financial pile-up. The third model added the variable of resources, which includes personal resources, family resources, and social support resources. The fourth model added the variable of perception, which includes perception of the stressor event and perception of all of the factors in the Structural Equation Model. Adaptation was entered as the dependent variable (y-variable).

Table 3.2. Variables in the Multiple Hierarchical Regression Analysis.

	Variable in Model	Measure	Variable Name
y <sub>1</sub>	Individual adaptation	Scale variable At the present time, how successful Are you at managing your duty responsibilities? (Q21_1r)  At the present time, how successful are you at managing your family responsibilities? (Q21_2r)	adapti
<b>X</b> <sub>1</sub>	Deployment	For TDYs, deployments, or trainings in the past 12 months, please indicate how many total days you have been away.	Q12_2
$\mathbf{x_2}$	Pile-up of demands		020 :
	Marital pile-up	How often in the past year have you wondered whether you should continue your relationship?	Q29ri
	Family pile-up	Index variable created by combining the following:	fampile
		For the events listed below mark those that have happened in your family in the past 12 months: birth of child(ren)/ adoption (Q27_3)  Do any children living in your home have a physical, mental, emotional, or developmental disability or a serious or chronic medical problem? (Q35_2ri)  Do any adults living in your home have a physical, mental, emotional, or developmental disability or a serious or chronic medical problem (Q35_1ri)	

For the events listed below mark those that have happened in your family in the past 12 months: juvenile behavior problem (Q27\_11)

For the events listed below mark those that have happened in your family in the past 12 months: serious health problems (Q27\_17)

For the events listed below mark those that have happened in your family in the past 12 months: taking on responsibility for older family member (Q27 18)

Are you providing any assistance (monetary, emotional, errands, etc.) to an older family member? (Q34r)

For the events listed below mark those that have happened in your family in the past 12 months: divorce/separation (Q27 5)

Job pile-up

In the past six months, to what extent did any of the following job situations impact your ability to perform your military duty the best you can?

Unpredictable work schedule (Q19\_1ri)

High OPSTEMPO (Q19\_2ri)

Reduced manpower due to deployment (Q19\_3ri)

12 hour shifts (Q12\_4ri)

Rotating shifts (Q19 5ri)

jobpile

Working after 1800 hours (Q19\_6ri) Working weekends (Q19 7ri) Swing shifts (Q19 8ri) Midnight shifts (Q19 9ri) Conflict with supervisor (Q19 10ri) Conflict with coworker (Q19 11ri) Financial pile-up In the past 12 months, how many Q32i months have you found it difficult to pay your bills? **X**3 Resources Q9i Personal resources What is your or your spouse's pay grade? famresi Family system Family cooperation and problemresources solving ability When we have to get things done that depend on cooperation of all members of the family . . . level of chance that things will get done (Q23 1ri) When my family faces a tough problem . . . level of hope of solving the problem (Q23 2ri) supindex Social support Who do you turn to for help with a personal problem (A)? Family problem (B)? Friend (Q33A 2; Q33B 2) Co-worker (Q33A 3; Q33B 3) Spouse (Q33A 4; Q33B 4)

Other family member/extended family (Q33A\_5; Q33B\_5)

Neighbor (Q33A 6; Q33B 6)

Unit commander (Q33A\_7; Q33B\_7)

First sergeant (Q33A 8; Q33B 8)

Supervisor (Q33A\_9; Q33B\_9)

Service provider on base (Q33A\_10; Q33B\_10)

Service provider off base (Q33A\_11; Q33B\_11)

## x<sub>4</sub> Perception

Perception of stressor

Index variable of the participant's perception of stress:

Mark the top five issues of concern across the Air Force as a whole: number of deployment/TDYs (Q45 10)

Mark the top five issues of concern across the Air Force as a whole: length of deployments/TDYs (Q45B\_11)

Perception of all

How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse was deployed or TDY in the past 12 months?

Wing leadership (Q43 1r)

Group leadership (Q43 2r)

Unit leadership ((Q43 3r)

perstres

deplosup

Supervisor (Q43\_4r)

Unit spouses (Q43 5r)

Neighbors (Q43\_6r)

Chapel (Q43 7r)

Child development and youth programs (Q43 8r)

Family advocacy program (Q43\_9)

Family support center (Q43 10r)

Mental health (Q43\_11r)

Health and wellness center (Q43\_12r)

Civilian community resources (Q43\_13r)

Note. The letter 'r' after a variable name indicates that the variable was recoded. The letter 'i' after a variable name indicates that missing values were imputed. Variables with numerical values in the name may be found in the 1999-2000 Air Force Community Needs Assessment Survey (Appendix A) and the 1999-2000 Air Force Community Needs Assessment Code Book (Appendix B).

#### **CHAPTER 4: RESULTS**

This study analyzed the 1999-2000 United States Air Force's Community

Needs Assessment using Structural Equation Modeling and Multiple Hierarchical

Regression to explore the factors that lead to positive adaptation among married

women in the military during the stressor of deployment. The empirical model for this
study is based on the Double ABCX Model of Family Stress and Adaptation

(McCubbin & Patterson, 1983a, 1983b, 1983c). In this study's empirical model, the
variables that lead to adaptation include the stressor event of military deployment,
pile-up of demands (marital pile-up, family pile-up, financial pile-up, and job pile-up),
resources (personal resources, family system resources, and social support resources),
and perception (perception of deployment and perception of all).

Since the Structural Equation Modeling Analysis did not yield a model, a Multiple Hierarchical Regression was executed in order to determine which variables in the path model contribute to adaptation among married women in the military. In this analysis, the independent variables were entered according to the theoretical consideration of the Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983a, 1983b, 1983c) and the proposed path model; these variables are detailed in Chapter 3 and are listed in Table 3.2. First, independent variables (x-variables) were entered in the regression analysis. The stressor event of deployment was evaluated in the first model. The second model added the variable of pile-up, which includes family pile-up, marital pile-up, job pile-up, and financial pile-up. The third model added the variable of resources, which includes personal

resources, family resources, and social support resources. The fourth model added the variable of perception, which includes perception of the stressor event and perception of all of the factors in the Structural Equation Model. Adaptation was entered as the dependent variable (y-variable).

This chapter presents the results of the analyses. The first section will present the descriptive statistics and intercorrelations for all of the variables in the empirical model. Exogenous and endogenous variables are listed in Table 3.1 and categorized according to the proposed model (i.e. stressor event, pile-up of demands, and resources). Table 4.1 contains the means, standard deviations, and intercorrelations for the variables analyzed in this study. The second section presents the results of the Structural Equation Model analysis. Table 4.2 contains the results of the Structural Equation Modeling analysis. The last section presents the results of the Multiple Hierarchical Regression analysis. Table 4.3 contains the results of the Multiple Hierarchical Regression analysis. Appendix A contains the 1999-2000 Air Force Community Needs Assessment Survey and Appendix B contains the 2000 Air Force Community Needs Assessment Survey Code Book, both of which include the measures for the variables that were analyzed in this study as well as the response categories for each measure.

## Descriptive Statistics

Stressor event. The "a" factor in the model is the stressor event affecting the family (McCubbin & Patterson, 1982, 1983a, 1983b, 1983c). In this study's model, the stressor is the military deployment. This variable is measured by a single item that

indicated how many days during the past 12 months the participant was away for TDYs, deployments, or trainings (Q12\_2). According to Table 4.2, participants were deployed or TDY for an average of almost two months during the past year (M = 52.05, SD = 52.45), with almost 90% of participants deployed for four months or less. Table 4.1 presents the distribution of the participants' deployment.

According to Table 4.2, there is a significant positive relationship between the stressor variable of deployment and job pile-up (r = 0.128, p < 0.001), between deployment and personal resources (r = -0.137, p < 0.001), between deployment and the participants' perception of the stressor (r = 0.097, p < 0.001), and between deployment and the participants' perception of all (r = 0.76, p < 0.001).

Table 4.1.

Descriptive Statistics for Deployment.

Deployment in Days	n	%
0	0	0.0%
1-30	912	50.1%
31-60	377	20.8%
61-90	165	9.0%
91-120	167	9.2%
121-150	105	5.8%
151-180	58	3.2%
181-210	19	1.0%
211-240	4	0.2%
241-270	4	0.3%
271-300	2	0.1%
301-330	1	0.1%
331-360+	4	0.2%

*Note.* N = 1819. X = 52.05.

Table 4.2

Intercorrelations, Means, and Standard Deviations of Variables in Model

Variables	1	2	3	4	5	6	7	8	9	10	11
1. Deployment		0.003	-0.002	0.128**	0.022	-0.137**	-0.024	-0.007	-0.097**	0.076**	0.002
2. Marital pile-up			0.062**	0.120**	0.184**	-1.44**	-0.392**	0.026	-0.043	-0.002	-0.201**
3. Family pile-up				0.085**	0.121**	-0.024	-0.081**	0.093**	-0.017	-0.007	-0.081**
4. Job pile-up					0.180**	-0.100**	-0.264**	0.041	0.039	0.018	-0.272**
5. Financial pile-up						-0.170**	-0.224**	0.035	-0.098**	-0.050**	-0.187**
6. Personal resources							0.057*	-0.057*	0.066*	0.013	-0.042
7. Family system resources								-0.032	0.018	0.045	0.445**
8. Social support resources									0.013	0.053*	-0.017
9. Perception of stressor										-0.060*	0.010
10. Perception of all											-0.007
11. Adaptation											
M	52.05	1.81	1.04	1.49	1.52	6.98	4.38	4.99	0.96	1.48	4.12
SD	52.445	1.019	1.180	0.552	2.960	2.423	0.669	2.877	0.893	0.492	0.702

Note. N=1819

<sup>\*\*</sup>Correlation is significant at the 0.01 level (2-tailed).

<sup>\*</sup>Correlation is significant at the 0.05 level (2-tailed).

Pile-up of stressors. The next factor in the model is the pile-up of stressors, which refers to the cumulative effect of the pre- and post-crisis stressors and strains (McCubbin & Patterson, 1983a). Measures for the pile-up factor are divided into four categories: marital pile-up, family pile-up, job pile-up, and financial pile-up.

The measure for the first category of pile-up of demands, marital pile-up, indicates how often in the past year the participant has wondered if she should continue her relationship (Q29ri). Higher scores indicate more thought about whether or not to continue the relationship and lower scores indicate less. According to Table 4.2, most participants rarely wondered whether they should continue their relationship during the past year (M = 1.81, SD = 1.02).

As the correlation matrix in Table 4.2 shows, there are significant positive relationships between marital pile-up and family pile-up (r = 0.62, p < 0.008), between marital pile-up and job pile-up (r = 0.120, p < 0.001), between marital pile-up and financial pile-up (r = 0.184, p < 0.001), and between marital pile-up and personal resources (r = -1.44, p < 0.000). There are significant negative relationships between marital pile-up and family system resources (r = -0.392, p < 0.001) and between marital pile-up and adaptation (r = -0.201, p < 0.001).

The measure for the second category of pile-up of demands, family pile-up, focuses on strains associated with family members. This measure (fampile) is an index variable which indicates events that have occurred in the participant's family during the past 12 months. According to Table 4.2, participants generally experience at least one of the family pile-up events included in the index (M = 1.04; SD = 1.18).

As the correlation matrix in Table 4.2 shows, there are significant positive relationships between family pile-up and marital pile-up (r = 0.062, p < 0.008), between family pile-up and job pile-up (r = 0.85, p < 0.001), between family pile-up and financial pile-up (r = 0.121, p < 0.001), and between family pile-up and social support resources (r = 0.093, p < 0.001). There are significant negative relationships between family pile-up and family system resources (r = -0.081, p < 0.001) and between family pile-up and adaptation (r = -0.081, p < 0.001).

The third category of pile-up of demands, job pile-up, is measured by a scale variable (jobpile), which indicates how many situations in the list of job situations impact the participant's ability to perform her military duty to the best of her ability during the past six months. Lower scores indicate less impact and higher scores indicate more impact. According to Table 4.2, the job pile-up situations only slightly impacted the participants' ability to perform her military duty to the best of her ability (M = 1.49, SD = 0.55).

There are significant positive relationships between job pile-up and deployment (r = 0.128, p < 0.001), between job pile-up and marital pile-up (r = 0.120, p < 0.001), between job pile-up and family pile-up (r = 0.085, p < 0.001), and between job pile-up and financial pile-up (r = 0.180, p < 0.001). There are significant negative relationships between job pile-up and personal resources (r = -0.100, p < 0.001), between job pile-up and family system resources (r = -0.264, p < 0.001), and between job pile-up and adaptation (r = -0.272, p < 0.001).

The last category in pile-up of demands is financial pile-up of demands. The measure in this category indicates how many months that participant found it difficult to pay their bills in the past 12 months (Q32). According to Table 4.2, most participants had very little financial pile-up. In fact, the average number of months participants found it difficult to pay their bills was only one to two months during the past 12 months (M = 1.52, SD = 2.96).

According to the correlation matrix on Table 4.2, there are significant positive relationships between financial pile-up and marital pile-up (r=0.184, p<0.001), between financial pile-up and family pile-up (r=0.121, p<0.001), and between financial pile-up and job pile-up (r=0.180, p<0.001). There are significant negative relationships between financial pile-up and personal resources (r=-0.170, p<0.001), between financial pile-up and family system resources (r=-0.224, p<0.001), between financial pile-up and the perception of the stressor (r=-0.098, p<0.135), between financial pile-up and the perception of all (r=-0.050, p<0.001), and between financial pile-up and adaptation (r=-0.187, p<0.001).

Resources. The next factor in the model is the family's or individual's resources. Measures for this factor are divided into three categories: personal resources, family system resources (internal resources), and social support resources.

Measures for the first category, personal resources, is measured by the military member or spouse's pay grade (Q9). Higher scores indicate higher pay grades. Junior enlisted military members accounted for 50.5% of participants (E-1 to E-5), senior enlisted members accounted for 23.2% of participants (E-6 to E-9), and officers

accounted for 43.3% of participants (O-1 to O-6); however, according to Table 4.2, because of a high percentage of junior enlisted members and a high percentage of officers, the mean reflects that most participants were in the middle of the military ranks (M = 6.98, SD = 2.42).

There are significant negative relationships between personal resources and deployment (r = -0.137, p < 0.001), between personal resources and marital pile-up (r = -0.144, p < 0.001), between personal resources and job pile-up (r = -0.100, p < 0.000), between personal resources and financial pile-up (r = -0.170, p < 0.001), and between personal resources and social support resources (r = -0.057, p < 0.014). There are significant positive relationships between personal resources and family system resources (r = 0.057, p < 0.015) and between personal resources and the perception of the stressor (r = 0.066, p < 0.005).

The second category of resources is family system resources, measured by a scale variable (famresi), containing an item that measure the cooperation of all members of the family to get things done (Q23\_1ri) and the family's hope of solving a tough problem (Q23\_2ri). Higher scores indicate greater family system resources. According to Table 4.1, most participants possessed a high amount of family system resources (M = 4.38, SD = 0.67).

There are significant positive relationships between family resources and personal resources (r = 0.057, p < 0.015) and between family system resources and adaptation (r = 0.445, p < 0.001). There are significant negative relationships between family resources and marital pile-up (r = -0.392, p < 0.001), between family resources

and family pile-up (r = -0.081, p < 0.001), between family pile-up and job pile-up (r = -0.264, p < 0.001), and between family pile-up and financial pile-up (r = -0.224, p < 0.001).

The last category for the factor of resources is social support resources. The measure for this category focuses on community support for families and is an index variable created by counting how many people or resources the participant turns to for help with personal and family problems (supindex). According to Table 4.1, participants generally had about five social support resources that they turned to for help with personal or family problems (M = 4.99, SD = 2.88).

There are significant positive relationships between social support resources and family pile-up (r = 0.093, p < 0.001) and between social support resources and perception of all (r = 0.053, p < 0.025). There is a significant negative relationship between social support resources and personal resources (r = -0.057, p < 0.014).

Perception of the stressor. Perception of the stressor is the definition the family makes of the seriousness of the stressor event (McCubbin & Patterson, 1983a, 1983c). This variable is measured by an index variable that counts participants who marked the number of deployment/TDYs or the length of deployment/TDYs as concerns they have with the Air Force (perstress). According to Table 4.1, most participants were concerned with either the number or the length of deployment/TDYs (M = 0.96, SD = 0.89).

There are significant positive relationships between the perception of the stressor and deployment (r = 0.097, p < 0.001) and between the perception of the

stressor and personal resources (r = 0.066, p < 0.005). There are significant negative relationships between the perception of the stressor and financial pile-up (r = -0.098, p < 0.001) and between the perception of the stressor and the perception of all (r = -0.060, p < 0.010).

Perception of all. The factor, perception of all, refers to the meaning the family or the individual gives to the total crisis situation. This category is measured by a scale variable (deploysup) that measures the participant's perception of supportiveness of groups or programs when their spouse is deployed or TDY. Higher scores indicate more support. According to Table 4.1, most participants reported that they felt that the groups and programs available during deployment or TDY were either not at all supportive to somewhat supportive (M = 1.48, SD = 0.49).

There is a significant positive relationship between the perception of all and deployment (r = 0.076, p < 0.001) and between the perception of all and social support resources (r = 0.053, p < 0.025). There is also a negative significant relationship between the perception of all and financial pile-up (r = -0.050, p < 0.032) and between the perception of all and the perception of the stressor event (r = -0.060, p < 0.010).

Adaptation. Adaptation, the outcome variable in the model, is the product of the stressor event and the pileup of demands buffered by the family's resources (McCubbin & Patterson, 1983a, 1983b, 1983c). Adaptation is measured by a scale variable including participant's success at managing his or her duty (work) responsibilities (Q21\_1r) and the participant's success at managing his or her family responsibilities (Q21\_2r). Higher scores indicate more success. According to Table

4.1, the participants in this study were very successful at managing their duty and family responsibilities (M = 4.12, SD = 0.70).

There is a significant positive relationship between adaptation and family resources (r = 0.445, p < 0.001). There are significant negative relationships between adaptation and marital pile-up (r = -0.201, p < 0.001), between adaptation and family pile-up (r = -0.081, p < 0.001), between adaptation and job pile-up (r = -0.272, p < 0.000), and between adaptation and financial pile-up (r = -0.187, p < 0.001). Structural Equation Modeling

Structural Equation Modeling was performed using Linear Structural Relations (LISREL 8.5) (Byrne, 1998). Unfortunately, the model that was specified failed to converge after 300 iterations, and there was no way to theoretically modify the model to make it converge.

## Multiple Hierarchical Regression

Since the Structural Equation Model failed to converge, a Multiple

Hierarchical Regression was executed in order to determine which factors in the

proposed model contribute most to individual adaptation. Independent variables were
entered in the order of the proposed Structural Equation Model.

In this study, the independent variables were entered into the analysis according to the theoretical consideration of the Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983a, 1983b, 1983c) and in the order of the proposed Structural Equation Model. First, independent variables (x-variables) were entered in the regression analysis. The stressor event of deployment was

evaluated in the first model. The second model added the variable of pile-up, which included family pile-up, marital pile-up, job pile-up, and financial pile-up. The third model added the variable of resources, which includes personal resources, family resources, and social support resources. The fourth model added the variable of perception, which includes perception of the stressor event and perception of all of the factors in the Structural Equation Model. Adaptation was entered as the dependent variable (y-variable).

The first model, which included the stressor event of deployment, had an  $R^2 = 0.000$  (p < .935), which means that 0% of the variance in adaptation can be explained by deployment. This is not surprising since the two variables were not correlated.

The second model, which added the variables of family pile-up, marital pile-up, job pile-up, and financial pile-up, had an  $R^2$  = .119 (p < 0.001), which means that 12% of the variance in adaptation can be explained by pile-up of demands. However, within the pile-up category, marital pile-up and job pile-up were more statistically significant ( $\beta$  = -0.150, p < 0.0001;  $\beta$  = -0.235, p < 0.0001) than family pile-up and financial pile-up ( $\beta$  = -0.038, p < 0.086;  $\beta$  = -0.114, p < 0.0001).

The third model, which added the variables of personal resources, family resources, and social support resources, had an  $R^2 = .239$  (p < 0.001), which means that 24% of the variance in adaptation can be explained by pile-up of demands and resources. The category of resources adds about 12% to the variance. In this model, family resources is the more statistically significant ( $\beta = 0.374$ , p < 0.0001) than

personal resources and social support resources ( $\beta$  = -0.095, p < 0.0001;  $\beta$  = 0.002, p < 0.911).

The fourth model, which added the variables of perception of the stressor and perception of all, had an  $R^2 = .240$  (p < 0.451), which means that 24% of the variance in adaptation can be explained by pile-up of demands, resources, and perception. However, perception only adds about a tenth of a percent to the variance.

Table 4.3.

Hierarchical Regression Analysis Summary for Stressor, Pile-up, Resources, and Perception Predicting Adaptaion.

Variable	Model 1		Model 2		Model 3		Model 4	
	b	β	b	β	b	β	b	β
Deployment	2.547E-05	0.002	0.000	0.3035	0.000	0.021	0.000	0.023
Marital pile-up			-0.103	-0.150***	-0.022	-0.032	-0.021	-0.031
Family pile-up			-0.023	-0.038	-0.017	-0.028	-0.017	-0.028
Job pile-up			-0.299	-0.235***	-0.210	-0.165***	-0.209	-0.164***
Financial pile-up			-0.027	-0.114***	-0.019	-0.081***	-0.020	-0.082***
Personal resources					-0.019	-0.095***	-0.019	-0.095***
Family resources					0.392	0.374***	0.394	0.375***
Social support resources					0.001	0.002	0.001	0.004
Perception of stressor							0.002	0.002
Perception of all							-0.037	-0.026
$R^2$	0.00	1	0.119		0.239		0.240	
$R_{\mathrm{adj}}^{2}$	-0.00	1	0.116		0.236		0.236	

$F$ for change in $R^2$	0.007	61.010***	95.474***	0.798

*Note.* N = 1819.

\*p < 0.05. \*\*p < .01. \*\*\*p < 0.001

#### CHAPTER 5: DISCUSSION AND CONCLUSION

This study explored factors that lead to a positive adaptation among married women in the military during the stressor of deployment. The Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983a, 1983b, 1983c) provided a strong theoretical model for this study, on which the empirical model for this study was based. In this study's empirical model, the variables that led to adaptation include the stressor event of military deployment, pile-up of demands (marital pile-up, family pile-up, financial pile-up, and job pile-up), resources (personal resources, family system resources, and social support resources), and perception (perception of deployment and perception of all). The 1999-2000 United States Air Force Community Needs Assessment (Appendix A) was analyzed using Structural Equation Modeling and Multiple Hierarchical Regression.

Since the Structural Equation Modeling Analysis did not yield a path model, a Multiple Hierarchical Regression was executed in order to determine which variables in the path model contribute to adaptation among married women in the military. In this analysis, the independent variables were entered according to the theoretical consideration of the Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983a, 1983b, 1983c) and the proposed path model; these variables are detailed in Chapter 3 and are listed in Table 3.2. First, independent variables (x-variables) were entered in the regression analysis. The stressor event of deployment was evaluated in the first model. The second model added the variable of pile-up, which includes family pile-up, marital pile-up, job pile-up, and financial pile-

up. The third model added the variable of resources, which includes personal resources, family resources, and social support resources. The fourth model added the variable of perception, which includes perception of the stressor event and perception of all of the factors in the proposed model. Adaptation was entered as the dependent variable (y-variable).

This chapter includes a discussion and interpretation of the Multiple

Hierarchical Regression analysis and a conclusion to this thesis. First, the findings of
the study are presented, with a discussion of each of the variables' influence on
adaptation in the order of the variables in the model (stressor event, pile-up of
stressors, resources, and perception). Second, the limitations of this study will be
discussed, followed by the benefits of this study. Last, suggestions for future research
will be presented.

## **Findings**

Deployment. Contrary to the expectation, deployment did not influence the individual's level of adaptation, as evidenced by the fact that the first regression model showed that 0% of the variance in adaptation was explained by deployment. This finding is surprising because the literature on military families states that prolonged and enforced separation of the service member from the family is possibly the most severe job related stress a military family experiences (Knapp & Newman, 1993; Lagrone, 1978; Schumm et al., 1996). Further, research has also found that separations have a negative effect on adaptation to military life (Schumm et al., 1996). It appears

from the literature that deployment would directly influence adaptation, but this analysis did not support this finding.

There are three possible reasons that deployment did not appear to influence adaptation in the regression analysis. First, this finding may be attributed to the particular item used to measure deployment, in which the participant indicated the number of days she was deployed during the past year (Q12\_2). This measure did not account for the type of deployment or the number of deployments the participant experienced during the past 12 months. Segal (1986) found that the number of extended separations in the Air Force is the lowest among the branches (8% of enlisted, 4% of officers). Since these figures reflect extended separations and are not relevant to short periods of separation caused by temporary duty (TDY) or field training, it may be that many of the participants in this study did not experience extended deployments. Second, it may be that deployment did not influence adaptation for women who were deployed a limited number of days per year or who experienced shorter deployments. Almost 90% of participants were deployed for four months or less, which may help explain the discrepancy between results from this study and results from past studies since earlier works state that extended deployments are the most detrimental to individuals and families (Blaisure & Arnold-Mann, 1992; Knapp & Newman, 1993; Nice, 1983; Wood & Scarville, 1995). A third reason for the disparity may be that women in the military experience deployment different than men do. Since women typically deal with the pile-up of demands at home, they may perceive deployment as an opportunity for a break from their pile-up of demands.

Pile-up of demands. The second model adds the variables of pile-up of demands, including marital pile-up, family pile-up, job pile-up, and financial pile-up. Pile-up of demands provided a statistically significant model of adaptation and explained 12% of the variance in adaptation. This finding concurred with earlier works that found that pile-up demands affect adaptation during deployment (Blount et al., 1992).

Pile-up of demands are important in the model. Studies show that stressors such as these intensify the stress of deployment as well as predict general well-being of the individual (Blount et al., 1992; Jensen et al., 1991; McCubbin & Patterson, 1983a, 1983b, 1983c; Rosen & Moghadam, 1991; Segal, 1986; Wood & Scarville, 1995). This finding corresponds to the literature on military families that states that an accumulation of stressors makes individuals more susceptible to distress during an extended deployment (Lagrone, 1978). The influence of pile-up of demands on adaptation may be explained by evidence that individuals with many pile-up demands generally have lower levels of adaptation, regardless of their deployment status.

Resources. The third model in the regression is the variable of resources, including personal resources, family system resources, and social support resources. The variable of resources is in support of the theoretical model and contributes significantly to understanding adaptation. Together with pile-up of demands, resources explained 24% of the variance in adaptation, adding about 12% to the variance. This variance can be explained in that an individual's use of resources may buffer the effect of their pile-up of demands, whether or not the individual is deployed.

This finding concurs with the literature since an individual's use of resources can lead to a more positive adaptation. In fact, Bell and Schumm (1999) state that families with the most social, financial, and emotional resources tend to adapt most successfully during deployment.

Perception. The fourth model in the regression adds the variables of perception of the stressor event and perception of all to the model. Surprisingly, perception did not contribute to the understanding of adaptation and provided no improvement in variance.

This is perhaps the most incongruent result, as the literature on the effect of deployment on civilian wives and symbolic interactionism theory indicate that an individual's perception plays a large role in adaptation. The Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983a, 1983b, 1983c) guiding this study placed perception as a prominent variable in which its role is the filter, through which deployment, pile-up, and resources, affects adaptation. In fact, the theory of symbolic interactionsim theory emphasized the meaning the individual creates for the stressor event, the pile-up of stressors, and the resources (LaRossa & Reitzes, 1993). This suggests that the interpretive process determines the meaning the individual gives to the overall crisis of the situation.

So, does this mean that perception does not really matter? Perhaps perception was insignificant in the regression because the measure for perception of all inadequately represented the variable. Since the statistical analysis began with Structural Equation Modeling, which could only include one type of measure for this

variable, only the participants' perception of social support resources was used.

Unfortunately, this was not a comprehensive measure of perception of all. Ideally, the measure would include the participants' perception of the deployment, of all of their pile-up of demands, and of all of their resources. The data set used had no measure included for adequately gauging the participants' perception of all of the factors.

Therefore, it may be that perception does in fact play a large role in adaptation and a more comprehensive measure of perception of all would indicate as such. This finding leads to a couple of questions: How does this finding relate to women compared to men? Do women experience pile-up to such a large degree that perception does not ameliorate the effect of pile-up of stressors and resources on adaptation?

Sample. The literature on military wives and families indicate that pile-up of demands, resources, and perception lead to adaptation. This study, however, did not support the existing literature. This clash in findings may be attributed to several different factors. First, differences between the populations studied may have played a role in the inconsistencies in findings. This study looked at women in the military who were deployed, whereas previous studies examined civilian wives whose husbands were deployed. Similar results were found in a study of fisher families (Zvonkovic, Manoogian, & McGraw, 2001). Zvonkovic and her colleagues (2001) found that men who were absent due to their fishing occupation did not experience the pile-up of demands to nearly the same extent as their wives did at home. In fact, the men in this study seemed to leave the pile-up of demands at home while they were working, and instead their wives dealt with these demands. The second factor of this clash may be

that women's roles in the family differ, so pile-up of demands, resources, and perception would have a greater impact on a civilian wife than on a civilian husband. The third factor in the clash in findings may be that, like the fisher families, civilian spouses deal with the pile-up of stressors (marital, family, job, financial) while the deployed individual leaves these stressors behind.

If this premise were true, then deployment would generally create more stress for the civilian individual who is left at home and who is coping with the pile-up of demands, particularly if family and individuals experience multiple demands and insufficient resources to cope. For example, a deployed military member would not be directly involved with the discipline of her child due to the geographical distance and lack of immediate response to the child's behaviors, whereas a civilian spouse would be available to deal with discipline. The military member may be told of the child's behavior after the issue is dealt with, but this would not create the same demand for the military member as it does for the civilian spouse.

It may be that the pile-up of demands, in combination with inadequate resources to manage them, generally affects the civilian spouse more than it affects the military member. Overall, it can be summed up that a pile-up of demands coupled with available resources accounts for an individual's level of adaptation. The effect of the combination of pile-up of demands and available resources overpowers the roles that perception of the deployment and perception of all play in adaptation.

#### Limitations

The most significant limitation of this study is the disadvantage of conducting a secondary analysis. As typical in a secondary analysis, measures available are less than ideal for the variables in the model. For instance, the measure for "perception of the stressor" only assessed whether the participant considered the number and length of deployments a concern. An ideal measure would have assessed the participants' perception of the deployment, marital pile-up, family pile-up, job pile-up, financial pile-up, personal resources, family resources, and social support resources, thus providing a more comprehensive evaluation of the participants' definition of their situation. Additionally, the measures for adaptation assessed the participants' ability to manage their work responsibilities and their family responsibilities. An ideal measure would have assessed the participants' well-being in all aspects of their life, such as marital satisfaction, family relationship satisfaction, emotional well-being, etc.

Another limitation in this study related to the parameters of Structural Equation Modeling. Since each variable in the Structural Equation Model could only have one measure (Kline, 1998), scale and index variables were created in order to include the maximum unit of measurement for each variable. Unfortunately, since scale items and index items could not be combined to create a measure, many relevant items were excluded. This restriction resulted in a less comprehensive measure of each variable in the model since it limited the number of items that could be used to measure each variable.

The final limitation is related to the finding that perception was not important in the regression model. It should be noted that the measure for perception of deployment was a stringent test, as the participant would have had to indicate that deployment was among their top five concerns out of a list of 14 other concerns with the option for the participant to specify up to four alternative concerns not listed. The structure of this measure may have resulted in participants indicating concerns that affect their daily lives rather than indicating concern over deployment since deployment may only occur a limited number of times per year.

Additionally, perception of all may have been insignificant in the regression model due to an inadequate measure of the variable. As previously noted in this chapter, the participants' perception of social support resources was used and was not a comprehensive measure of perception of all. Further, the regression shows that in the third model, which adds the resources variables, family resources has the strongest effect on adaptation and social support resources has almost no effect on adaptation. Since the variable of perception of all actually measures the participants' perception of their social support, it is no surprise that perception of all did not have an effect of adaptation. Ideally, the measure would have included the participant's perception of the deployment, of all of their pile-up of demands, and of all of their resources.

# Benefits of Study

## Inclusion of Military Women

Perhaps the most important attribute of this study is the population that it analyzed: women in the military. Although women are currently a minority in the

military, comprising only a fraction of all members, the Profile of the Military

Community 2000 Demographics Report asserts that the number of women as a percent
of the total military has continued to increase, with women accounting for 14.9% of
the Department of Defense (Military Family Resource Center, 2000). Furthermore, the
Air Force maintains the highest percentage of active duty women of all the military
branches; their personnel is comprised of 19.1% women (Military Family Resource
Center, 2000). Although both genders experience stress associated with deployment,
research has shown that, in general, women are significantly more affected by stress,
which emphasizes the importance of this study (Wethington, McLeod, & Kessler,
1987).

No longer are scholars and family resource professionals needing to look at information gathered on men or on military spouses in order to make assumptions about the experience of women in the military. This study shows that the pile-up of stressors and resources are crucial for women in the military. This finding emphasizes the importance of taking a proactive approach to making resources available for women in the military so that they can reduce their pile-up of stressors prior to deployment, which may lead to a more positive adaptation during the stressor event of deployment.

## Model Improvement

Additionally, this study allowed for improvement and an increase in utility of an existing model. The Double ABCX Model of Stress and Adaptation has been used extensively in research involving family stress (Lavee et al., 2001; McCubbin &

Patterson, 1983a, 1983b, 1983c). However, thus far, this model has been purely theoretical. Accordingly, this study was able to take the first step in using this model empirically. Potentially, further development and perfection of this model may increase its applicability to the wide range of normative and non-normative stressors that individuals and families experience.

## Evaluation of Military Families

Although there are several benefits of the application of the Double ABCX Model of Family Stress and Adaptation, perhaps the most useful is for the evaluation of military families, which could aid in early intervention during periods of stress: deployment, relocation, detachment, and wartime situations. Military Family Resource Centers provide an ideal opportunity to use this model to evaluate a family's or individual's potential balance of their stressor and pile-up of demands with their adaptive resources and perceptions, thus providing optimum assistance and intervention. By identifying the critical components of adaptation, resource centers such as these will be able to provide optimum services to families in order to increase positive adaptation. This aspect is especially important since this study indicates that adaptation for women in the military is dependent on their pile-up of stressors and their access to resources. A proactive approach to providing this population with resources prior to deployment may decrease their pile-up of stressors and increase their level of adaptation before deployment, leading to a more positive adaptation during the actual deployment.

#### Future Research

## Extended Deployments

One of the limitations of this study is the lack of exclusive focus on extended deployments. Literature has indicated that extended deployments are the most detrimental to military families (Knapp & Newman, 1993; Lagrone, 1978). Therefore, in future studies, it would be beneficial to focus on participants who were deployed for extended periods of time rather than for shorter periods.

# Interviews of Military Couples

This study showed that deployment was not a significant factor leading to adaptation in women who were in the military. However, previous literature on civilian wives indicates that these are all factors that lead to adaptation and well-being. So why is there disagreement between studies? A qualitative study should be designed to examine this phenomenon further. Specifically, conducting interviews with couples to determine which spouse endures the most pile-up of stressors and who utilizes the resources would provide a better understanding of this situation. In addition, conducting paired interviews would provide information on the disparity between civilian spouses and military member's perception of the stressor event, pile-up of stressors, and resources. Paired interviews would also provide a comparison of the couples' individual levels of coping and adaptation, thus allowing family and social service practitioners to more effectively provide services to couple and families using a systems approach.

# Role of Perception in Adaptation

Family stress research and symbolic interactionism theory indicate that perception is a mediating factor of adaptation. This study did not find perception to be crucial, presumably due to the inability to adequately measurement of variables.

Additional research needs to be conducted on the role of perception on adaptation before abandoning the idea that perception affects adaptation. Particularly, a qualitative study would be an ideal beginning in investigating perception's role in adaptation to facilitate a better idea of how one's perception contributes to adaptation.

# Other Understudied Populations

There is abundant literature on civilian wives and their adaptation, and although this study was ground-breaking in that it looked at an understudied population, there are other groups that need to be studied further: civilian husbands, men in the military, and dual military couples. Each of these groups may experience deployment differently, and with these current minority groups increasing in the military, it is important to further investigate these populations in order for military family resources centers to provide optimum support to military members and their families.

## Model Development

Last, it would be valuable to conduct further empirical development of the Double ABCX Model of Family Stress and Adaptation (McCubbin & Patterson, 1983a, 1983b, 1983c). Although this study attempted this endeavor, the Structural Equation Modeling analysis did not produce a model. Further analysis needs to be

conducted on the proposed path model in this study with more appropriate measures, as it would be useful to have an effective empirical model of stress and adaptation in order to evaluate the adaptation of individuals under different types of stressful situations.

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**APPENDICES** 

### Appendix A

SCN 99-24 EXPIRES: 31 Dec 99

# 1999-2000 AIR FORCE



# **Community Needs Assessment**

#### **DIRECTIONS**

- 1. Base your answers on your own feelings and experiences.
- 2. Read directions carefully, you may not have to answer all questions.
- 3. Mark only one answer for each question unless instructed otherwise.

- 3. Mark only one answer for each question unless instructed otherwise.

  4. Please use a blue or black pen to complete this survey.

  5. Place an "X" in the appropriate box or boxes.

  6. This bookiet will be processed by automatic equipment. To avoid errors, please avoid wrinkles, stray marks, and extra folds.
- 7. Please answer each question carefully.

### THIS SURVEY SHOULD TAKE ABOUT 30 MINUTES TO COMPLETE.

Your participation in the survey is completely voluntary and none of the information provided will be associated with you individually. Your survey will be treated as confidential and only group statistics will be reported.

1. This questionnaire is exempt from OMB approval required by Paper Work Reduction Act 1980 and subsequent reenactment.

002216

YOUR BACKGROUND	FOR QUESTIONS 9-12, PLEASE ANSWER AS FOLLOWS:				
1. In what year were you born?	MILITARY MEMBERS, ANSWER FOR YOUR MILITARY CAREER				
19	NON-MILITARY SPOUSES, ANSWER FOR YOUR SPOUSE'S MILITARY CAREER				
2. Are you?	9. What is your or your spouse's pay grade?				
Male Fernale	E1 E6 O1 E2 E7 O2 E3 E8 O3 E4 E9 O4				
What is your current marital status? (Choose one.)     Married     Legally separated or filing for divorce	E5 O5 O6				
Not legally married but living with a significant other of the opposite sex  Not married (Skip to Ques. 5)	10. At the present time, which statement best describe your or your spouse's military career plans?				
4. How many years have you been married to your current spouse or living with your significant other? If less than 1, enter 00.  Years	To stay in the military until retirement To stay in the military beyond present obligation; but not necessarily to retirement To separate/retire from the military upon completion of present obligation - more than 12 months from now To separate/retire from the military within the next 12 months Undecided				
5. How many months have you been living in this community?	How many <u>years</u> of military service have you or your spouse completed? If less than 1 year, enter 00.				
Months	Years				
6. What is your home zip code?	rapin value (i) and self-				
	12. For TDYs, deployments or trainings in the past 12 months, please indicate:				
	a. How many total times you have been away:				
YOU AND THE MILITARY	Times				
7. Are you an active duty military member?	b. How many total days you have been away:				
Yes	Days				
Is your spouse an active duty military member?     No     Yes					
	·				

MILITARY MEMBERS, SKIP TO QUESTION 16.	18. In the past six months, to what extent did any of the following job situations impact your ability					
NON-MILITARY SPOUSES CONTINUE WITH	to meet your family responsibilities?  Does Not Apply					
QUESTIONS 13-15.	····					
attendation and amployment?	Great Extent					
3. Are you currently seeking paid employment?	Moderate Extent					
No ,	Slight Extent					
Yes, part-time work — Go to Ques. 23 Yes, full-time work —	Not At All					
	a. Unpredictable work schedule					
14. If you responded "No" to question 13, why are	b. Kept at work beyond normal					
you not seeking employment? (MARK ALL THAT	hours					
APPLY.)	c. Called back for additional					
	detail or shift after you had					
Already employed	aiready left work					
Attending school	d. Lack of energy for my family					
Choose to not be employed	due to fatigue					
No jobs available in area	e. Deployment/TDY					
Jobs in area are low paying	f. Conflict with co-worker					
Child care availability/affordability	g. Conflict with supervisor					
Spouse deployed/TDY too often	h. Spouse's unpredictable work					
Other (Specify:)	schedule					
	i. Spouse's deployment/TDY/					
15. What type of impact has your spouse's military	work travel					
career had on your career plans?	j. Spouse called back for					
	additional detail or shift after					
Very positive	he/she had already left work					
_ Positive	k. High OPSTEMPO					
, Negative	Reduced manpower due to					
Very negative	deployment					
No impact at all	m 12 Mour source					
TO OUESTION 23						
NON-MILITARY SPOUSES, SKIP TO QUESTION 23.	p. Worlding weekends					
MILITARY MEMBERS CONTINUE WITH QUESTIONS						
16-22.	r. Midnight shifts					
	19. In the past six months, to what extent did any of					
16. Is your family with you on this assignment?	the following job situations impact your ability					
No, my family is not with me	to perform your military duty the best you can?					
No. 1 am single with no dependents						
Ves accompanied by family-command sponsored	Does Not Apply					
Yes, accompanied by famility-NOT command	Great Extent					
sponsored	Moderate Extent					
photisci ad	Slight Extent					
and the second but seconds MADY At 1	Not At All					
17. If not accompanied by family, MARK ALL REASONS THAT APPLY:						
Spouse currently employed elsewhere	a. Unpredictable work schedule					
Spouse unable to find employment at this duty	b. High OPSTEMPO					
ctation	c. Reduced manpower due to					
Con't went to change children's school	deployment					
Have special needs family member	d. 12 Hour shifts					
No housing available	e. Rotating shifts					
Unaccompanied tour	f. Working after 1800 hours					
Filing for divorce/Legally separated	g. Working weekends					
Other (Specify:)	h. Swing shifts					
Outer (Specify,	i. Midnight shifts					
I AM ACCOMPANIED BY MY FAMILY	j. Conflict with supervisor					
	k. Conflict with co-worker					

impact your ability to do your job?  Great extent	in each of the following situations: Mark "Does Not Apply" only if you do not participate in the
Moderate extent	activity identified.
Slight extent	Does Not Apply
Not all all	··· -
Does not apply	Civilian Community Base Community
21. At the present time, how successful are you at managing your duty and family responsibilities? (MARK ONE NUMBER FROM 1 TO 5 FOR EACH.)	a. In general, I identify with the
Not At All Extremely Not	d. Most of my social activities are with
Successful Successful Apply	people associated with the
a. Duty Responsibilities	e. Most of my friends are associated
b. Family Responsibilities	with the
	<ol> <li>Non-active duty family members go</li> </ol>
22. For each personal or family situation below:	for medical care in the
FIRST, mark column 1 if you have taken time off	g. I shop most often in the
from work in the <u>past month</u> because of this situation.	h. I use support agencies most frequently in the
SECOND, If you have taken time off, mark in	
column 2 whether the time off was scheduled or	
unscheduled. 2. Time Off Was Unscheduled	25. Please answer the following questions using
Time Off Was Scheduled	the scale below. Base your responses on the
·	community you identify with most closely in item
1. Time Off From Work	a, of question 24 above.
	•
a. Family member's health	Strongly Agree Agree
b. Personal health	Neutral
c. Transportation problem	Disagree
d. Child care arrangements	Strongly Disagree
a. Cabani salakad madkan fas abildus	
e. School-related matters for children	•••
f. Dealing with financial concerns	· · ·
Dealing with financial concerns	a. If I had an emergency, even people
f. Dealing with financial concerns	a. If I had an emergency, even people     I do not know in this community
Dealing with financial concerns     Preparing for a PCS move     Settling in after a PCS move     Preparing for deployment/TDY	a. If I had an emergency, even people
t. Dealing with financial concerns g. Preparing for a PCS move h. Settling in after a PCS move i. Preparing for deployment/TDY, j. Juvenile behavior problems	a. If I had an emergency, even people     I do not know in this community     would be willing to help
f. Dealing with financial concerns g. Preparing for a PCS move h. Settling in after a PCS move i. Preparing for deployment/TDY	a. If I had an emergency, even people     I do not know in this community     would be willing to help  b. People here know they can get
f. Dealing with financial concerns g. Preparing for a PCS move h. Settling in after a PCS move i. Preparing for deployment/TDY j. Juvenile behavior problems	a. If I had an emergency, even people I do not know in this community would be willing to help  b. People here know they can get help from the community if they
f. Dealing with financial concerns g. Preparing for a PCS move h. Settling in after a PCS move i. Preparing for deployment/TDY j. Juvenile behavior problems	a. If I had an emergency, even people I do not know in this community would be willing to help.  b. People here know they can get help from the community if they are in trouble
f. Dealing with financial concerns g. Preparing for a PCS move h. Settling in after a PCS move i. Preparing for deployment/TDY j. Juvenile behavior problems	a. If I had an emergency, even people I do not know in this community would be willing to help  b. People here know they can get help from the community if they are in trouble  c. People can depend on each
f. Dealing with financial concerns g. Preparing for a PCS move h. Sattling in after a PCS move j. Preparing for deployment/TDY. j. Juvenile behavior problems k. Family legal issues.	a. If I had an emergency, even people I do not know in this community would be willing to help  b. People here know they can get help from the community if they are in trouble  c. People can depend on each other in this community
f. Dealing with financial concerns g. Preparing for a PCS move h. Settling in after a PCS move i. Preparing for deployment/TDY j. Juvenile behavior problems k. Family legal lesues	a. If I had an emergency, even people I do not know in this community would be willing to help.  b. People here know they can get help from the community if they are in trouble
f. Dealing with financial concerns g. Preparing for a PCS move h. Sattling in after a PCS move i. Preparing for deployment/TDY. j. Juvenile behavior problems k. Family legal issues INDIVIDUAL/FAMILY ISSUES  23. Answer each item below as it relates to your family.	a. If I had an emergency, even people I do not know in this community would be willing to help.  b. People here know they can get help from the community if they are in trouble.  c. People can depend on each other in this community.  d. My friends in the community are a part of my everyday activities.  e. Living in this community gives me a secure feeling.
f. Dealing with financial concerns g. Preparing for a PCS move h. Settling in after a PCS move i. Preparing for deployment/TDY j. Juvenile behavior problems k. Family legal lesues	a. If I had an emergency, even people I do not know in this community would be willing to help.  b. People here know they can get help from the community if they are in trouble
f. Dealing with financial concerns g. Preparing for a PCS move h. Settling in after a PCS move i. Preparing for deployment/TDY. j. Juvenile behavior problems k. Family legal lesues  INDIVIDUAL/FAMILY ISSUES  23. Answer each item below as it relates to your family. (MARK ONE NUMBER FROM 1 TO 5 FOR EACH.)	a. If I had an emergency, even people I do not know in this community would be willing to help
f. Dealing with financial concerns g. Preparing for a PCS move h. Sattling in after a PCS move i. Preparing for deployment/TDY. j. Juvenile behavior problems k. Family legal lesues  INDIVIDUAL/FAMILY ISSUES  23. Answer each item below as it relates to your family. (MARK ONE NUMBER FROM 1 TO 5 FOR EACH.) a. When we have to get things done. There is Almost. Things	a. If I had an emergency, even people I do not know in this community would be willing to help.  b. People here know they can get help from the community if they are in trouble.  c. People can depend on each other in this community  d. My friends in the community are a part of my everyday activities  e. Living in this community gives me a secure feeling  f. There is a feeling in this community that people should not get too friendly with each
f. Dealing with financial concerns g. Preparing for a PCS move h. Sattling in after a PCS move i. Preparing for deployment/TDY. j. Juvenile behavior problems k. Family legal lesues  INDIVIDUAL/FAMILY ISSUES  23. Answer each item below as it relates to your family. (MARK ONE NUMBER FROM 1 TO 5 FOR EACH.) a. When we have to get things done the desemble of the problems of the proble	a. If I had an emergency, even people I do not know in this community would be willing to help.  b. People here know they can get help from the community if they are in trouble.  c. People can depend on each other in this community.  d. My friends in the community are a part of my everyday activities.  e. Living in this community gives me a secure feeling.  f. There is a feeling in this community that people should not get too friendly with each other.
f. Dealing with financial concerns g. Preparing for a PCS move h. Sattling in after a PCS move i. Preparing for deployment/TDY j. Juvenile behavior problems k. Family legal issues  INDIVIDUAL/FAMILY ISSUES  23. Answer each item below as it relates to your family. (MARK ONE NUMBER FROM 1 TO 5 FOR EACH.) a. When we have to get things done that depend on There is Almost No Chance Will Does Always Not	a. If I had an emergency, even people I do not know in this community would be willing to help b. People here know they can get help from the community if they are in trouble. c. People can depend on each other in this community d. My friends in the community are a part of my evenyday activities. e. Living in this community gives me a secure feeling f. There is a feeling in this community that people should not get too friendly with each other. g. This is not a very good
f. Dealing with financial concerns g. Preparing for a PCS move h. Sattling in after a PCS move i. Preparing for deployment/TDY. j. Juvenile behavior problems k. Family legal lesues  INDIVIDUAL/FAMILY ISSUES  23. Answer each item below as it relates to your family. (MARK ONE NUMBER FROM 1 TO 5 FOR EACH.) a. When we have to get things done that depend on There is Almost No Chance that depend on That Things Always Not cooperation of all will Get Done Apply	a. If I had an emergency, even people I do not know in this community would be willing to help.  b. People here know they can get help from the community if they are in trouble.  c. People can depend on each other in this community.  d. My friends in the community are a part of my everyday activities.  e. Living in this community gives me a secure feeling.  f. There is a feeling in this community that people should not get too friendly with each other.
f. Dealing with financial concerns g. Preparing for a PCS move h. Sattling in after a PCS move i. Preparing for deployment/TDY j. Juvenile behavior problems k. Family legal issues  INDIVIDUAL/FAMILY ISSUES  23. Answer each item below as it relates to your family. (MARK ONE NUMBER FROM 1 TO 5 FOR EACH.) a. When we have to get things done that depend on There is almost No Chance Will Does Always Not	a. If I had an emergency, even people I do not know in this community would be willing to help b. People here know they can get help from the community if they are in trouble. c. People can depend on each other in this community d. My friends in the community are a part of my evenyday activities. e. Living in this community gives me a secure feeling f. There is a feeling in this community that people should not get too friendly with each other. g. This is not a very good
f. Dealing with financial concerns g. Preparing for a PCS move h. Settling in after a PCS move i. Preparing for deployment/TDY. j. Juvenile behavior problems k. Family legal lesues  INDIVIDUAL/FAMILY ISSUES  23. Answer each item below as it relates to your family. (MARK ONE NUMBER FROM 1 TO 5 FOR EACH.) a. When we have to get things done that depend on the top of the family Things Will Does Always Not Cooperation of all Will Get Done members of the family	a. If I had an emergency, even people I do not know in this community would be willing to help b. People here know they can get help from the community if they are in trouble. c. People can depend on each other in this community d. My friends in the community are a part of my evenyday activities. e. Living in this community gives me a secure feeling f. There is a feeling in this community that people should not get too friendly with each other. g. This is not a very good
f. Dealing with financial concerns g. Preparing for a PCS move h. Sattling in after a PCS move i. Preparing for deployment/TDY j. Juvenile behavior problems k. Family legal lesues  INDIVIDUAL/FAMILY ISSUES  23. Answer each item below as it relates to your family. (MARK ONE NUMBER FROM 1 TO 5 FOR EACH.) a. When we have to get things done get things done that depend on that Things that depend on that Things Always Not cooperation of all will Get Done members of the family  There is No Hope Of	a. If I had an emergency, even people I do not know in this community would be willing to help.  b. People here know they can get help from the community if they are in trouble.  c. People can depend on each other in this community.  d. My friends in the community are a part of my evenyday activities.  e. Living in this community gives me a secure feeling.  f. There is a feeling in this community that people should not get too friendly with each other.  g. This is not a very good
f. Dealing with financial concerns g. Preparing for a PCS move h. Sattling in after a PCS move i. Preparing for deployment/TDY. j. Juvenile behavior problems k. Family legal lesues  INDIVIDUAL/FAMILY ISSUES  23. Answer each item below as it relates to your family. (MARK ONE NUMBER FROM 1 TO 5 FOR EACH.) a. When we have to get things done that depend on There is Almost that depend on That Things cooperation of all will get Done members of the family  There is No Hope OI Solve Dosa Solve Dosa The Not	a. If I had an emergency, even people I do not know in this community would be willing to help.  b. People here know they can get help from the community if they are in trouble.  c. People can depend on each other in this community.  d. My friends in the community are a part of my evenyday activities.  e. Living in this community gives me a secure feeling.  f. There is a feeling in this community that people should not get too friendly with each other.  g. This is not a very good
f. Dealing with financial concerns g. Preparing for a PCS move h. Sattling in after a PCS move i. Preparing for deployment/TDY j. Juvenile behavior problems k. Family legal issues  INDIVIDUAL/FAMILY ISSUES  23. Answer each item below as it relates to your family. (MARK ONE NUMBER FROM 1 TO 5 FOR EACH.) a. When we have to get things done that depend on the family There is Almost No Chance that depend on that Things Always Not Cooperation of all Will Get Done members of the family  There is No Hope Of Solve Does	a. If I had an emergency, even people I do not know in this community would be willing to help b. People here know they can get help from the community if they are in trouble. c. People can depend on each other in this community d. My friends in the community are a part of my everyday activities. e. Living in this community gives me a secure feeling f. There is a feeling in this community that people should not get too friendly with each other. g. This is not a very good

26. Regardless of marital status or whether you have children, indicate your level of satisfaction with each of the following. (MARK A RESPONSE FOR EACH ITEM.)

Very Satisfied Satisfied

Dissatisfied

#### **Very Dissatisfied**

How satisfied are you with the:

- a. Supportiveness of the community you live in .....
- . b. Supportiveness of the base community.....
- c. Support of families by base leadership .
- d. Support of families by your unit or your spouse's unit .....
- e. Support provided to the Active Duty
- f. Air Force/military as a good place for
- bringing up children .....
- g. Air Force/military as a way of life .....
- h. Base programs for children & youth . . . .
- i. Base programs for families ......
- j. Sense of community at this base ......
- 27. For the events listed below mark those that have happened in your family in the past 12 months. (MARK ALL THAT APPLY.)

Bankruptcy/major financial hardship

Base closure/base expansion/base downsizing

Birth of a child(ren)/adoption

Child school problems

Death of a family member

Deployment or remote tour

Divorce/separation

Family separation because of military duty impending separation from the military

Job loss for spouse

Juvenile behavior problem

Loss of child care arrangements

Marriage

Non selection for promotion

Personal relationship problems

Relocation/PCS

Serious health problems

Taking on responsibility for older family member

Victim of crime

Victim of abuse

28. How often have you experienced conflicts with family members in the past month?

> Never Almost never

Sometimes

Often

Very often

29. How often in the past year have you wondered whether you should continue your relationship?

Often

Sometimes

Rareiv

Never

30. How strongly do you agree or disagree with the statement, "Parents who spare the rod will spoil the child"?

Strongly agree

Agree

Disagree

Strongly disagree

31. Below is a list of ways people relieve stress. Mark all of those you have done in the past month to relieve stress. (MARK ALL THAT APPLY.)

Criticize/argue with/threaten others

Deny there is a problem

Eat more than usual increase use of alcohol

Increase use of prescription drugs

increase use of tobacco

Participate in exercise/sports activities

Participate in leisure activities (e.g., read, watch

TV, hobbles)

Push/shove/punch/throw something

Sleep more than usual

Spend time alone/pray/meditate

Talk with a counselor

Talk with a friend

Try to see the humorous side of things

Verbally abuse adults Verbally abuse children

Work more than usual

Withdraw from contact with others

32. In the past 12 months, how many months have you found it difficult to pay your bills? If less than 1 month, enter 00.

Months

33. Who do you turn to f problem? A family property FOR EACH P	roblem? (MARK ALL THAT
	B. Family Problem A. Personal Problem
	,
	extended family
• • • • • • • • • • • • • • • • • • • •	
	******************
	.,,.,,,,
i. Supervisor	• • • • • • • • • • • • • • • • • • • •
<ol> <li>Service provider on ba</li> </ol>	
Family Support Center	
	h, etc.)
k. Service provider off ba	se (e.g., clergy, school th service, etc.)
a physical, mental, em disability or a serious (such as asthma or ca	ren living in your home have otional or developmental or chronic medical problem noer) that requires ptional Family Member YES (NOT enrolled in EFMP) YES (Enrolled in EFMP)
•	NO

b. Children

#### **COMMUNITY PROGRAMS/SERVICES**

36. For each program or service listed:
FIRST, mark column 1 if you needed the program/
service in the <u>past 12 months</u> (leave blank if not needed.)
SECOND if you used a program/service mark

SECOND, if you used a program/service, mark column 2 to indicate whether it was provided by an on base or off base agency.

2. If You Used A Program/Service Was It: On Base Off Base

Needed This Program/Service
 During The Past 12 Months

#### A. COMMUNITY SERVICE NEEDS

Directory of community	
services/programs	
2. Chapel services	
3. Community Center	
4. Housing referral	
5. Legal services	•
6. Volunteer concriunities	

#### B. EDUCATION/EMPLOYMENT NEEDS

Adult continuing education     Family member employment	সূ	图	.:
assistance	Ø	$\boxtimes$	C
C. FAMILY/CHILDREN'S NEEDS			

1. Child care services/referrals
2. Couples communication
3. Children/youth programs/services
4. Financial help with child care costs
5. Family life education programs
6. Family maltreatment services
7. Family recreation activities

Family violence prevention information
 Homework assistance for child
 Parenting classes

Single parents programs ......
 Support for mission related family separation .........

37. How do YOU hear about community programs or

36. (Continued)	37. How do YOU hear about community programs or services for you or members of your family?
2. If You Used A Program/Service Was It: On B	
•	I never hear anything at all
Needed This Program/Service     During The Past 12 Months	Base phone book/operator Bulletin boards on base
D. FINANCIAL NEEDS	Chapel Child Development Center/Youth Program
1. Emergency financial assistance	Children
2. Financial help with relocation	Daily/monthly bulletin
expenses	E-mail
3. Budget counseling	Family Advocacy Program
4. Financial education/information	Family Support Center
	Flyers
E. HEALTH AND WELLNESS NEEDS	Friend or neighbors
C. HEALIN AND WELLIESS WELDS	Health and Wellness Center
1. Adult fitness activities	Installation newspaper or newsletter
2. Anger management	Local community newspaper
3. Casualty assistance	Marquee/electronic bulletin board
4. Health and wellness services	Mental Health
5. Mental health services	Newcomers orientation
6. Nutrition information	Other families
7. Prenata/childbirtt/newborn care	Other unit members or co-workers Radio
8. Stress management	Radio
9. Substance abuse services	School S Service provider on base
10. Iooacco cessation services 살 일	C.   G. Common Provinces and Common C
	Service's monthly magazine
F. RELOCATION/TRANSITION NEEDS	Spouse
1. Moving services/assistance	
2. Relocation assistance	☑ ☑ Television ☑ Unit or base commander or supervisor
3. Relocation information (culture/	Web site
environment issues for members/	23 1100 0100
	~
families/children) 2	38. MARK WHETHER YOU AGREE OR DISAGREE
5. Retirement employment	WITH THE STATEMENT: Programs or services that
	support families are important to my commitment
6. Retirsment/separation workshops/	to the Air Force.
seminars (job search skills:	Strongly agree
resume writing, job interviewing,	⊠ Agree
	Neither agree nor disagree
	◯ Disagree
O ODEOLAL MEEDS	Strongly disagree
G. SPECIAL NEEDS	
1. Eldercare services	
2. Exceptional Family Member	39. How many PCS moves have you made during your
(EFMP) services	or your spouse's Air Force career?
	Moves
	40. Over all, how stressful was your PCS move to this base?
	Very stressful Moderately stressful Slightly stressful Not stressful
•	, ryor surestul

41. How supportive do you feel the following groups or programs are in your and your family's daily lives?	44. During times of deployments, separations or unaccompanied tours which of the following of sesistance do you/your family members no
No Experience	(MARK ALL THAT APPLY.)
Very Supportive	Predeployment support
Somewhat Supportive	Support during separations
Not At All Supportive	Post deployment assistance
•	Help with child care costs
a. Wing leadership	Family Care Plan help Family support groups
b. Group leadership	Family reunion training
C Unit leadership	Youth supervision
d. Supervisor	Morale calls
f. Neighbors	Calls from unit to family
g. Chapel	Newsletters
	Financial planning
h. Child Development & Youth	Emergency financial assistance
Family Advocacy Program	Workshops about family life/parenting
Family Support Center	E-mail communication
k, Mental Health	Spouse employment support
I. Health and Wellness Center	Respite care
(HAWC)	Car maintenance help
m. Civilian community resources	
	45. Mark the top 5 issues of concern at this bas
	4 and the top 5 legitles of concern as
	the Air Force as a whole in column 2. (Pleas
42. Mark here if you or your spouse have NOT been TD	only 5 in each column.)
42 Mark hers if you or your spouse have not	
42. Mark Held II John Co to	2 Air
or deployed in the past 12 months.	2.711
or deployed in the <u>past 12 months</u> .   ☐ → Go to Question 44	2. Air 1. This Bas
or deployed in the past 12 months.	1. This Bas
or deployed in the past 12 months.	1. This Bas
or deployed in the <u>past 12 months</u> .  Question 44	1. This Bas
or deployed in the past 12 months.  Question 44	a. Housing
or deployed in the past 12 months.  Question 44  43. How supportive do you feel the following groups have been for you and your family,	a. Housing
or deployed in the past 12 months.  Question 44  43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were	a. Housing b. Safety c. Spouse employment d. Child care
43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were designed or TDY in the past 12 months?	a. Housing b. Safety c. Spouse employment d. Child care 4. Youth services
or deployed in the past 12 months.  Question 44  43. How supportive do you feel the following groups have been for you and your family,	a. Housing b. Safety c. Spouse employment d. Child care e. Youth services f. Health care
43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were designed or TDY in the past 12 months?	a. Housing b. Safety. c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services
43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?	a. Housing b. Safety c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family construction
43. How supportive do you feel the following groups or programs have been for your and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  NA  Very Supportive	a. Housing b. Safety c. Spouse employment. d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO.
or deployed in the past 12 months.  43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  NA  Very Supportive Somewhat Supportive	a. Housing b. Safety c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDVs
43. How supportive do you feel the following groups or programs have been for your and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  NA  Very Supportive	a. Housing b. Safety c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployments/TDYs
43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive  Somewhat Supportive Not At All Supportive	a. Housing b. Safety c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployments/TDYs 1. Relocation services
43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive  Somewhat Supportive Not At All Supportive	a. Housing b. Safety c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployments/TDYs
43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive  Somewhat Supportive Not At All Supportive	a. Housing b. Safety c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployments/TDYs 1. Relocation services
43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive  Somewhat Supportive Not At All Supportive	a. Housing b. Safety c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployment/TDYs l. Relocation services m. Transition services n. Personal financial indebtedness o. Other (Specify)
43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive  Somewhat Supportive  Not At All Supportive  a. Wing leadership	a. Housing b. Safety c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployment/TDYs l. Relocation services m. Transition services n. Personal financial indebtedness o. Other (Specify)
or deployed in the past 12 months.  43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive  Somewhat Supportive  Not At All Supportive  a. Wing leadership  Unit leadership  Unit spouses.	a. Housing b. Safety. c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployment/TDYs l. Relocation services m. Transition services n. Personal financial indebtedness o. Other (Specify) p. Other (Specify) q. Other (Specify)
or deployed in the past 12 months.  43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive  Somewhat Supportive  Not At All Supportive  a. Wing leadership  Unit seadership  Unit seadership  Unit seadership  Neighbors  Neighbors  Chapel	a. Housing b. Safety c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployment/TDYs f. Relocation services m. Transition services n. Personal financial indebtedness o. Other (Specify)
or deployed in the past 12 months.  43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive  Somewhat Supportive  Not At All Supportive  a. Wing leadership  Unit seadership  Unit seadership  Unit seadership  Neighbors  Neighbors  Chapel	a. Housing b. Safety c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployments/TDYs f. Relocation services m. Transition services m. Personal financial indebtedness o. Other (Specify) p. Other (Specify) q. Other (Specify) c. Other (Specify)
43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive  Somewhat Supportive  Not At All Supportive  a. Wing leadership  Unit leadership  Unit leadership  Unit spouses  Neighbors  Chapel  Child Development & Youth	a. Housing b. Safety c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployments/TDYs f. Relocation services m. Transition services m. Personal financial indebtedness o. Other (Specify) p. Other (Specify) q. Other (Specify) c. Other (Specify)
or deployed in the past 12 months.  43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive  Somewhat Supportive  Not At All Supportive  a. Wing leadership  Unit leadership  Unit leadership  Unit leadership  Chapel  Châd Development & Youth Programs  Leadership  Chapel  Châd Development & Youth Programs  Leadership  Chapel  Châd Development & Youth Programs	a. Housing b. Safety. c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployments/TDYs l. Relocation services m. Transition services m. Personal financial indebtedness o. Other (Specify) p. Other (Specify) c. Other (Specify) c. Other (Specify) def. How many MINUTES does it take you to get
or deployed in the past 12 months.  43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive Somewhat Supportive Not At All Supportive  a. Wing leadership b. Group leadership Unit leadership Unit leadership c. Neighbors 1. Chapel 9. Child Development & Youth Programs h. Family Advocacy Program	a. Housing b. Safety c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployments/TDYs l. Relocation services m. Transition services n. Personal financial indebledness o. Other (Specity) p. Other (Specity) c. Other (Specity) t. Other (Specity) t. Other (Specity) live on base
or deployed in the past 12 months.  43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive Somewhat Supportive Not At All Supportive  a. Wing leadership b. Group leadership Unit leadership Unit leadership c. Neighbors 1. Chapel 9. Child Development & Youth Programs h. Family Advocacy Program	a. Housing b. Safety. c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployments/TDYs l. Relocation services m. Transition services n. Personal financial indebtedness o. Other (Specify) p. Other (Specify) q. Other (Specify) r. Other (Specify) t. Other (Specify) live on base
or deployed in the past 12 months.  43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive  Somewhat Supportive  Not At All Supportive  a. Wing leadership  Unit leadership  Unit leadership  Unit leadership  Chapel  Chapel  Chid Development & Youth  Programs  h. Family Advocacy Program  I. Family Support Center  Mental Health	a. Housing b. Safety. c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployments/TDYs l. Relocation services m. Transition services n. Personal financial indebtedness o. Other (Specify) p. Other (Specify) q. Other (Specify) r. Other (Specify) t. Other (Specify) live on base
or deployed in the past 12 months.  Question 44  43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive  Somewhat Supportive  Not At All Supportive  a. Wing leadership  Unit leadership  Unit leadership  Unit leadership  O Unit apouses  Neighbors  I. Chapel  Child Development & Youth  Programs  h. Family Advocacy Program  I. Family Support Center  Mental Health  K. Health and Wellness Center	a. Housing b. Safety c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployment/TDYs l. Relocation services m. Transition services m. Personal financial indebtedness o. Other (Specify) p. Other (Specify) g. Other (Specify) t. Other (Specify) live on base Please mark the approximate number of Mil k takes you to get from your residence to be
or deployed in the past 12 months.  Question 44  43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive  Somewhat Supportive  Not At All Supportive  a. Wing leadership  Unit leadership  Unit leadership  Unit leadership  O Unit apouses  Neighbors  I. Chapel  Child Development & Youth  Programs  h. Family Advocacy Program  I. Family Support Center  Mental Health  K. Health and Wellness Center	a. Housing b. Safety. c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployments/TDYs f. Relocation services m. Transition services m. Personal financial indebtedness o. Other (Specify) p. Other (Specify) q. Other (Specify) r. Other (Specify) live on base Please mark the approximate number of Milit takes you to get from your residence to be
or deployed in the past 12 months.  43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive  Somewhat Supportive  Not At All Supportive  a. Wing leadership  Unit leadership  Unit leadership  Unit leadership  Chapel  Chapel	a. Housing b. Safety. c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployments/TDYs l. Relocation services m. Transition services n. Personal financial indebtedness o. Other (Specify) p. Other (Specify) q. Other (Specify) r. Other (Specify) T. Other (Specify) live on base Please mark the approximate number of Milit takes you to get from your residence to b
or deployed in the past 12 months.  Question 44  43. How supportive do you feel the following groups or programs have been for you and your family, at this base, when you or your spouse were deployed or TDY in the past 12 months?  Very Supportive  Somewhat Supportive  Not At All Supportive  a. Wing leadership  Unit leadership  Unit leadership  Unit leadership  Chapel  Chapel  Chapel  Chid Development & Youth  Programs  h. Family Advocacy Program  i. Family Support Center  Mental Health  K. Health and Wellness Center	a. Housing b. Safety. c. Spouse employment d. Child care e. Youth services f. Health care g. Recreation services h. Separation from extended family i. OPSTEMPO j. Number of deployment/TDYs k. Length of deployments/TDYs l. Relocation services m. Transition services m. Personal financial indebtedness o. Other (Specify) p. Other (Specify) q. Other (Specify) r. Other (Specify) live on base Please mark the approximate number of Milit takes you to get from your residence to b

- 8 -

47. Under norm many HOUF primary pay	S PER WE	ances, approximately how EK do you work at your	54. For each item listed: FIRST, in column 1 mark each item below that has been a concern for children living with you in the past 12 months.						
	Hours		SECOND, in column 2, if you sought help, mark whether you got help ON or OFF base.						
48. Do you have	a second	paying job?	2. Help Sought: On	Off Base Base					
No			1. Concern for Children						
	) hours a w								
Yes, 11 - 3	30 hours a v than 30 ho	/dek	a. Abuse by family member or other						
res, more	man 50 no	Jig a ween	individualb. Acting out at school/child care						
	مر ماء فادام ا	an accomplish work at VOIII	c. Adjusting to new schools/child care	2.0					
49. what type o primary pay		ou normally work at your	d. Adjusting to sten family						
8 hour - d		12 hour - day shift	e. Alcohol use	_					
8 hour - o		12 hour - night shift	f. Close friend or family member dying						
8 hour - ni		12 hour - rotating shift	g. Conflict with parents						
	tating shift	Other	h. Depression						
O HOLL			i. Divorce or separation of parents						
		ar compressed work	j. Drug use	2:					
ov. Do you won	e a nexume	or compressed work week, day off every other	k. Eating disorders (anorexia, bulimia)	•					
week)?	g. 4 dayar	MER, GAY ON EVERY CONE.	I. Family separation because of military	<u></u> .					
*		₹3 Yes	duty	<u></u>					
No		42, 183	m. Gang involvement						
			n. Gifted child needs	~ 쳁					
		ber is employed, what is	o. Lack of recreational activities	(SKANIUK)					
her/his annu			p. Lack of sex education	2° 1					
Under \$10		<b>🔯 \$40,001 - \$50,000</b>	q. Lack of youth employment opportunities.						
<b>S10,000 -</b>		<b>☑</b> \$50,001 - \$60,000	r. Making new friends	، ت					
<u> </u>		<b>⊠</b> \$60,001 - \$70,000	s. Parent(s) retring/separating from the military	1571 2					
☑ \$30,001 -	\$40,000	Above \$70,000	t, Problems with dating						
			u. Problems with police	ă.					
		in april more 10	v. Problems with school work	ল ল					
		HILDREN UNDER 18	w. Racial or ethnic prejudice						
LIVING V	VITH YOU,	GO TO QUESTION 67.	x. Separation from extended family						
			(grandparents, sunts, uncles, etc.)	⊠ (					
			y. Smoking	⊠ (					
	VOUD C	HILDREN	z. Suspension/expulsion from school	<b>3</b>					
	TOOR	TILDREN	sa. Talik of suicide/suicidal behavior						
<u> </u>			bb. Teen pregnancy	$\Sigma$					
	hildren ou	rrently live with you?							
52. NOW Mainy	HIGHLIAN CO	reliay live with your							
٠.,	···}		CHILD AND YOUTH PROGRAM	IS					
( )	Childe	•n							
			55. Do you use regularly scheduled child ca	ra.					
		- #	arrangements during your or your spous	a's					
53, indicate the	ages or the	a <u>five youngest</u> children ider age 1, mark 00.	work day?						
Leading Mit	ii you. ii ui	our age 1, mark oo.	No —► Go to Ques. 83 Yes						
	First	Fourth							
	Child	Child	56. I prefer my child care to be:						
		A series as a series and a seri	On base						
	Secor	nd Fifth	Off base No prefe	rence					
	Child	Child	. On page 140 provi						
		·	57. I prefer my child care to be:						
	Third		Center-based care						
	Child		Home-based care No prefe	enence					

For your three youngest children, (a) indicate the age of the child, (b) the cost per week for that child. If your child is under age 1 year,

enter age as 0.	CHIL	ONE	CHILL	TWO	CHILD	THREE
TYPE OF ARRANGEMENT	a. Age		a. Age	*	a. Age	
TIPE OF ARRANGEMENT	b. # of hours/week	c. Total cost/week	b. # of hours/week	c. Total cost/week	b. # of hours/week	c. Total cost/week
Other relative/older sibling	hours	\$ .00	hours	\$ .00	hours	\$ .00
Non-relative (e.g., nanny, babysitter, friend, au-pair)	hours	\$ .00	hours	\$00	hours	.00
Military child care center/preschool	hours	\$ .00	hours	s∞	hours	\$00
Civilian child care center/preschool	hours	\$ 00	hours	\$00	hours	\$
Military family child care home	hours	\$ .00	hours	\$00	hours	\$00
Civilian family child care home (licensed)	hours	\$ .00	hours	\$00	hours	\$00
Civillan family child care home (not licensed)	hours	\$	hours	<b>\$</b>		
Military hourly child care service	hours	\$00	hours	\$	hours	\$00
Civilian hourly child care service	hours	\$00	hours	\$00	hours	\$0
Military before/after school program	hours	\$00	hours	\$00	hours	\$
Civilian before/after school program	hours	\$00	hours	∞.□□.₽	hours	\$00
Other (specify)	hours	\$	hours	S	hours	<b>\$</b> □□□.∞

59. Now consider the child care needs of all children
living with you. For each type of child care listed,
indicate if you needed that type of child care in the
nest 12 months. (MARK ALL YOU'VE NEEDED.)

- Part-day child care on base (0 5 yrs)

- □ Part-day child care off base (0 5 yrs)
   □ Full-day child care on base (0 5 yrs)
   □ Full-day child care on base (0 5 yrs)
   □ Full-day child care off base (0 5 yrs)
   □ Drop-in (hourly) child care on base (0 12 yrs)
- Drop-in (hourly) child care off base (0 12 yrs)

- □ Drop-in (hourry) Child care on base (0 12)
   □ Overnight care (0 18 yrs)
   □ Full day summer care (6 12 yrs)
   □ Sick child care (0 12 yrs)
   □ Give Parents A Break (0 12 yrs)
   □ School-age program-on base (6 12 yrs)
   □ School-age program-off base (6 12 yrs)
   □ Child care for PCS moves

- Family child care for volunteers

60. Consider the child care arrangement that you use most frequently. Indicate your level of satisfaction with each of the following factors by marking the box corresponding to your rating. Mark N/A if not applicable.

Very Satisfied Satisfied

#### Neutral Dissatistied

Very Diseatisfied					
a. Cost	$\boxtimes$		$\boxtimes$	X	NEWEN
b. Hours of operation	Ø	$\boxtimes$	$\boxtimes$	$\boxtimes$	<u> </u>
c. Location 🖂	Ø	$\boxtimes$	X	$\boxtimes$	22
d. National accreditation	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\boxtimes$	$\mathbb{Z}$
e. Number/variety of age					
appropriate activities 🔀	$\boxtimes$	$\boxtimes$	$\boxtimes$	X	221
appropriate activities 🔯 f. Provider/staff turnover 🖸	$\boxtimes$	X	$\boxtimes$	$\Sigma$	215
g. Quality of the building/					
facility/space	$\square$	$\boxtimes$	3	Σ	Ŋ
h. Quality of the equipment/					
supplies/materials 🔀	$\mathbb{Z}$	$\mathbb{Z}$	$\sum_{i}$	₹.	
supplies/materials  i. Quality of the meals/snacks.  j. Safety/health  k. Staff/child Interaction  j. Staff/child ratio  m. Staff training	끖	£.			مشبة
j. Safety/health	$\subseteq$	$\mathbb{Z}$	23		ASARIE
k. Staff/child Interaction 3	$\mathbb{Z}$	$\mathbb{Z}$	7.3	3	골
I. Staff/chlid ratio	3	$\mathbb{Z}'$		HAMEL	23
m. Staff training	$\overline{2}$	7	्	=	4

n. Walting time to get child

61. How many days in the past month have you needed child care more than 10 hours a day to cover work or duty responsibilities?	66. Below is a list of potential problems with the Youth Program (YP). Mark any concerns you have had with YP at this base, for your child(ren) in the age groups listed. (MARK ALL THAT APPLY.)
	C. 15 - 16 yrs.
Days	B. 11 - 14 yrs.
Copyrige the Management 1995	A, 6 - 10 yrs.
All de sous esconomistis	a. Children not interested in activities offered
62. To what extent do your child care arrangements impact your or your spouse's military readiness?	b. Hours of operation
Great extent	c. Interferes with family time
Moderate extent	d. Interleres with homework
Slight extent Not at all	e. Lack of supervision by staff
Not gr an	f. Location
	f. Location
63. IF YOU HAVE NO CHILDREN BETWEEN AGE 6	g. No problems with rodult rings with
AND 18, MARK HERE AND GO TO QUES. 67.	h. Poor facility
	i. Takes too much parental time & effort
the angular of	. Too costly
64. How satisfied are you with the overall quality of the Youth Program (Youth sports, instructional	k. Too few activities offered.
classes, etc.) at this base, for your chilo(rail) in	L. Unfavorable peer pressure
each of the following age groups?  C. t5 - 18 yrs.	m. Untrained staff 🖸 🖸
B. 11 - 14 yrs.	
A. 6 - 10 yrs.	
Very satisfied     ∑     ∑     ∑       Satisfied     ∑     ∑     ∑       Dissatisfied     ∑     ∑     ∑       Very dissatisfied     ∑     ∑     ∑       No experience     ∑     ∑     ∑	
65. How often has your child(ren) in each age group participated in youth program activities in the past 12 months?	
C. 15 - 18 yrs.	
B, 11 - 14 yrs. A, 6 - 10 yrs.	
	•
Nearly every day  2 or 3 days a week  Once a week  1 to 3 times a month  For special events only  Did not participate in youth programs on base	

o write any comments about the a	dividuals/families living at your base? Use this space your base or any needs you have that were not covered
n this survey.	and the second s
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	•

# - THANK YOU -

PLEASE RETURN THIS QUESTIONNAIRE IMMEDIATELY IN THE ENVELOPE PROVIDED.

## 2000 Air Force Community Needs Assessment Survey Code Book For Installation SPSS and ASCII Data Files

Survey Question transcrimination of the control of	:63
1. In what year were you born?	<b>Q1</b>
19	_
2. Are you:	<b>)</b> 2
Male	
3 What is your current marital status? (Choose one)	)3
Married	. 2 - . 3
4. How many years have you been married to your current spouse or living with your significant other?	<b>)</b> 4
5. How many months have you been living in this community?	5
6. What is your home zip code?	6
7. Are you an active duty military member?	
/No /Yes	
8. Is your spouse an active duty military member?Q	8
NoYes	

9 What is your or your spo	ouse's pay grade?	Q9
•		_
E11	E66	O110
E22	E77	O211
E33	E88	O312
E44	E99	0413
E55		O514
		O615
10. At the present time, whi military career?	ch statement best describe	es your or your spouse's 
		•
To stay in the military until re	tirement	1
To separate/retire from the mil	itary upon completion of p	necessarily to retirement
months from now	*************************************	3
To separate/retire from the mil	itary within the next 12 mo	nths4
Undecided	***************************************	5
(If less than 1 year, enter 00.)		our spouse completed?Q11
12. For TDYs, deployments		
How many total times you hav	e been away:	Q12_1
How many total days you have	: been away:	Q12_2
		Q13
No		1
Yes, part-time work (GO TO	016)	2
Yes, full-time work (GO TO	Q16)	3
14. If you responded "No" to (Mark All That Apply)	question 13, why are you	not seeking employment?
Unmarked	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0
Marked	· · · · · · · · · · · · · · · · · · ·	1
Already employed	***************************************	Q14 1
Attending school	*************************	Q14 2
Choose to not be employed		Q14_3
No jobs available in area		Q14_4
Jobs in area are low naving		Q14_4
Child care availability/affordabi	litv	Q14_3
Spouse deployed/TDY too often	i	Q14_0
me or project that the Olivis		

Other (Specify:Q14_OTH)	Q14_8
15. What type of impact has your spouse's military career had on yo	100 M 44
plans?	
	-
Very positive	I
Positive	
Negative	
Very negative	
No impact at all	5
16. Is your family with you on this assignment?	Q16
No, my family is not with me	1
No, I am single with no dependents	······································
Yes, accompanied by family-command sponsored	
Yes, accompanied by family-NOT command sponsored	
17. If not accompanied by family, mark all reasons that apply:	
(Mark All Reasons That Apply)	
Unmarked	0
Marked	
Spouse currently employed elsewhere	Q17_1
Spouse unable to find employment at this duty station	Q17_2
Don't want to change children's school	Q17_3
Have special needs family member	Q17_4
No housing available	Q17_5
Unaccompanied tour	Q17_6
Filing for divorce/Legally separated	Q17_7
Other (Specify:Q17_OTH)I AM ACCOMPANIED BY MY FAMILY	Q17_8
I AM ACCOMPANIED BY MY FAMILY	Q17_9
18. In the past six months, to what extent did any of the following job	situations impact vour
ability to meet your family responsibilities?	p
The following are coded:	
Not At All	1
Slight Extent	
Moderate Extent	
Great Extent	
Does Not Apply	
a. Unpredictable work schedule	<b>በ1</b> ጸ 1
b. Kept at work beyond normal hours	11R 7
c. Called back for additional detail or shift after you had already left work	018 3
d. Lack of energy for my family due to fatigue	O18 4
e. Deployment/TDY	O18 5
	· · · · · · · · · · · · · · · · · · ·

•	
f. Conflict with co-worker	O18
g. Conflict with supervisor	018
h. Spouse's unpredictable work schedule	O18
i. Spouse's deployment/TDY/work travel	การโ
j. Spouse called back for additional detail or shift after he/she had already left work	018 1
k. High OPSTEMPO	
I. Reduced manpower due to deployment	O18 13
m. 12 Hour shifts	O18 13
n. Rotating shifts	018 14
o. Working after 1800 hours	018 14
p. Working weekends	O18 16
q. Swing shifts	018 12
r. Midnight shifts	018 18
19. In the past six months, to what extent did any of the following job situations ability to perform your military duty the best you can?	impact you
The following are coded:	
Not At All	
Slight Extent	
Moderate Extent	
Great Extent	
Does Not Apply5	
a. Unpredictable work schedule	010.1
b. High OPSTEMPO.	Q19_1
c. Reduced manpower due to deployment	Q19_2
d. 12 Hour shifts	Q19_3
e. Rotating shifts	010 s
f. Working after 1800 hours	010 6
g. Working weekends	019 7
h. Swing shifts	019 8
i. Midnight shifts	O19 9
j. Conflict with supervisor.	O19 10
k. Conflict with co-worker	Q19_11
20. To what extent do your family responsibilities impact your ability to do	
your job?	Q20
Great extent	-
Moderate extent	
Slight extent	2
Not at all	ك
Does not apply	4

## 21. At the present time, how successful are you at managing your duty and family responsibilities? On a 5-point scale: Not At All Successful...... .....2 .....3 .....4 22. For each personal or family situation below: FIRST, Have you taken time off from work in the past month because of this situation? Unmarked ..... Marked ......1 c. Transportation problem......Q22A\_3 e. School-related matters for children......Q22A\_5 i, Preparing for deployment/TDY......Q22A\_9 SECOND, If you have taken time off, mark whether the time off was scheduled or unscheduled. Time Off Was Scheduled Time Off Was Unscheduled ......2 b. Personal health......Q22B\_2 c. Transportation problem......Q22B\_3 i. Preparing for deployment/TDY......Q22B 9

j. Juveni	ile behavior problems	Q22B_10
k. Family	y legal issues	Q22B_11
23. Ans	swer each item below as it relates to your family.	
On a	a 5-point scale:	
*	There is Almost No Chance That Things Will Get Done	1
	***************************************	3
	***************************************	
	Things Will Always Get Done	
	Does Not Apply	6
	we have to get things done that depend on cooperation of all me	
C	On a 5-point scale:	
	There is No Hope of Solving The Problem	1
	There is No Hope of Solving The Floblein	
	We Will Solve The Problem	
	Does Not Apply	
23. Pleas	se indicate which community you identify with in each of the foll	owing situations:
		-
	Base Community	
	Does Not Apply	
	Does Not Apply	3
a. In gene	ral, I identify with the	O24 1
b. I attend	I religious services most frequently in the	Q24_2
c. I volunt	teer most often in	Q24_3
	f my social activities are with people associated with	
e. Most of	f my friends are associated with the	Q24_5
	tive duty family members go for medical care in the	
	most often in the	
h. I use su	apport agencies most frequently in	Q24_8
	e answer the following questions using the scale below. Base you nunity you identify with most closely in item a. of question of 24	
	Strongly Disagree	1
	Disagree	2

	Neutral3	
	Agree4	
	Strongly Agree5	
a. If I had an willing to h	emergency, even people I do not know in this community would be	25 1
b. People her	re know they can get help from the community if they are in trouble	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
c. People can	depend on each other in this community	
d. My friends	s in the community are a part of my everyday activities	
e. Living in the	this community gives me a secure feeling.	25_4 25_5
f. There is a f	feeling in this community that people should not get too friendly with	
g. This is not	a very good community to bring children up in	25.7
مسمي	a very good community to oring omitted up minimum.	
26 Darawil	land of the side o	
satisfacti	less of marital status or whether you have children, indicate your ion with each of the following.	level of
	N. B. del	
_	Very Dissatisfied1	
	Dissatisfied	
	Satisfied3	
	Very Satisfied4	
How satisfied	d are you with the:	
,a. Supportiver	ness of the community you live in	26.1
b. Supportive	ness of the base community	76.7
c. Support of t	families by base leadership	26 3
d. Support of	families by your unit or your spouse's unit	26 4
e. Support pro	ovided to the Active Duty by the unit	26 5
f. Air Force/m	nilitary as a good place for bringing up children	26 6
.g. Air Force/m	nilitary as a way of life	26 7
h. Base progra	ams for children & youth	26.8
i. Base program	ms for families	26 9
த். Sense of con	mmunity at this base	26_10 -
		,
27. For the ev	vents listed below mark those that have happened in your family i	in the neet 17
months. (Ma	ark All That Apply)	in the past 12
	Unmarked 0	
	Marked	
	1	
Rankmintov/m-	ajor financial hardship	O17 1
Rase closure/h	pase expansion/base downsizing	Q2/_1
Birth of a child	d(ren)/adoption	Q2/_2 
Child school a	problems	
Death of a fam	nily member	
Denloyment of	r remote tour	
Divorce/senses	ation	
Family cenomit	tion because of military duty	Q27_7
i aminy sepanat	non occause of minitary outy	

Impending separation from the military	Q27_9
Job loss for spouse	O27 10
Juvenile behavior problem	
Loss of child care arrangements	
Marriage	O27 13
Non selection for promotion	
Personal relationship problems	
Relocation/PCS	
Serious health problems	027 17
Taking on responsibility for older family member	O27 18
Victim of crime	027 19
Victim of abuse	Q27_20
28. How often have you experienced conflicts with family past month?	y members in the
Never	1
Almost never	
Sometimes	3
Often	
Very often	
29. How often in the past year have you wondered wheth relationship?	er you should continue your Q29
Often	
Sometimes	
Rarely	
Never	4
30. How strongly do you agree or disagree with the staten the rod will spoil the child?"	nent, "Parents who spare 
Strongly agree	1
Agree	
Disagree	
Strongly disagree	
31. Below is a list of ways people relieve stress. Mark all month to relieve stress.  (MARK ALL THAT APPLY.)	of those you have done in the <u>past</u>
Unmarked	0
Marked	
Criticize/argue with/threaten others	Q31_1
Deny there is a problem	Q31 2

Eat more than usual	
Increase use of alcohol	Q31_4
Increase use of prescription drugs	Q31_5
Increase use of tobacco	Q31 6
Participate in exercise/sports activities	Q31_7
Participate in leisure activities (e.g., read, watch TV, hobbies)	
Push/shove/punch/throw something	
Sleep more than usual	O31 10
Spend time alone/pray/meditate	
Talk with a counselor	031 12
Talk with a friend	
Try to see the humorous side of things	031 14
Verbally abuse adults	031 15
Verbally abuse children	031 16
Work more than usual	O31_17
Withdraw from contact with others	031 18
32. In the past 12 months, how many months have you found it If less than 1, enter 00.	
33.)Who do you turn to for help with a personal problem? A far (MARK ALL THAT APPLY FOR EACH PROBLEM)	
(MARK ALL THAT APPLY FOR EACH PROBLEM)  Unmarked	0
(MARK ALL THAT APPLY FOR EACH PROBLEM)  Unmarked	0
Unmarked  Marked  A. Personal Problem  No one	
Unmarked  Marked  A. Personal Problem  a. No one	
Unmarked  Marked  A. Personal Problem  a. No one b. Friend  C. Co-worker	0 
Unmarked  Marked  A. Personal Problem  a. No one b. Friend c. Co-worker d. Spouse	0 
Unmarked  Marked  A. Personal Problem  a. No one b. Friend c. Co-worker d. Spouse e. Other family member/extended family	0
Unmarked  Marked  No one b. Friend C. Co-worker d. Spouse e. Other family member/extended family f. Neighbor	0
Unmarked  Marked  No one  Co-worker  Spouse  Other family member/extended family  Neighbor  Unmarked  Marked  Marked	0
Unmarked  Marked  A. Personal Problem  a. No one b. Friend c. Co-worker d. Spouse c. Other family member/extended family f. Neighbor g. Unit Commander h. First Sergeant	0
Unmarked  Marked  No one  Co-worker  Spouse  Other family member/extended family  Neighbor  Unit Commander  First Sergeant  Supervisor	0
Unmarked  Marked  A. Personal Problem  a. No one b. Friend c. Co-worker d. Spouse e. Other family member/extended family f. Neighbor g. Unit Commander h. First Sergeant Supervisor Service provider on base (e.g., Chaplain, Family Support Center,	00
Unmarked  Marked  A. Personal Problem  a. No one b. Friend c. Co-worker d. Spouse e. Other family member/extended family f. Neighbor g. Unit Commander h. First Sergeant Supervisor Service provider on base (e.g., Chaplain, Family Support Center, Family Advocacy, etc.)	00
Unmarked  Marked  A. Personal Problem  a. No one b. Friend c. Co-worker d. Spouse e. Other family member/extended family f. Neighbor g. Unit Commander h. First Sergeant Supervisor Service provider on base (e.g., Chaplain, Family Support Center, Family Advocacy, etc.)	0
Unmarked  Marked  A. Personal Problem  a. No one b. Friend c. Co-worker d. Spouse e. Other family member/extended family f. Neighbor g. Unit Commander h. First Sergeant i. Supervisor j. Service provider on base (e.g., Chaplain, Family Support Center, Family Advocacy, etc.) k. Service provider off base (e.g., clergy, school counselor, mental)	0
Unmarked  Marked  A. Personal Problem  a. No one b. Friend c. Co-worker d. Spouse e. Other family member/extended family f. Neighbor g. Unit Commander h. First Sergeant i. Supervisor i. Service provider on base (e.g., Chaplain, Family Support Center, Family Advocacy, etc.) C. Service provider off base (e.g., clergy, school counselor, mental health services, etc.)	0
Unmarked  Marked  A. Personal Problem  a. No one b. Friend c. Co-worker d. Spouse e. Other family member/extended family f. Neighbor g. Unit Commander h. First Sergeant i. Supervisor i. Service provider on base (e.g., Chaplain, Family Support Center, Family Advocacy, etc.) c. Service provider off base (e.g., clergy, school counselor, mental nealth services, etc.)  B. Family Problem i. No one	0
Unmarked  Marked  A. Personal Problem  a. No one b. Friend c. Co-worker d. Spouse e. Other family member/extended family f. Neighbor g. Unit Commander h. First Sergeant i. Supervisor j. Service provider on base (e.g., Chaplain, Family Support Center, Family Advocacy, etc.) k. Service provider off base (e.g., clergy, school counselor, mental health services, etc.)  B. Family Problem  a. No one	0
(MARK ALL THAT APPLY FOR EACH PROBLEM)  Unmarked	0

a Other family member/autended family	Caan C
e. Other family member/extended family	
f. Neighbor	Q33B_6~
g. Unit Commander	Q33B_7-
h. First Sergeant	Q33B_8
i. Supervisor	Q33B_9
	0000 44
Family Advocacy, etc.)	Q33B_10 ×
k. Service provider off base (e.g., clergy, school counselor, mental	
health services, etc.)	Q33B_11
34. Are you providing any assistance (monetary, emotional, errands, etc.	\
older family member?	) to an
Over many monder,	Q34
Yes, claim older family member as dependent	1
Yes, but don't claim older family member as dependent	
No	2
110000000000000000000000000000000000000	
35. Do any adults or children living in your home have a physical, mental	l amadlamal an
developmental disability or a serious or chronic medical problem (suc	, emotional or
cancer)?	n as astama or
Cancer);	
No	1
Yes (Enrolled in EFMP)	
Yes (NOT Enrolled in EFMP)	
165 (1901 Educated in ELIMIT)	3
Adults	025 1
Children	Q35_1
	Q35_2
36. For each program or service listed:	
-FIRST, mark column 1 if you needed the program/service in the	past 12 months
(leave blank if not needed)	past in intolering
,	
Unmarked	0
Marked	1
A. COMMUNITY SERVICE NEEDS	
1. Directory of community services/programs	Q36A 1
2. Chapel services	Q36A_2
3. Community Center	O36A 3
4. Housing referral	Q36A 4
5. Legal services	O36A 5
6. Volunteer opportunities	Q36A 6
	• • • • • • • • • • • • • • • • • • •
B. EDUCATION/EMPLOYMENT NEEDS	
2. Adult continuing education	
2. Family member employment assistance	
, .	
C. FAMILY/CHILDREN'S NEEDS	

1. Child care services/referrals	
2. Couples communication	O36A 1
3. Children/youth programs/services	O364 1
4. Financial help with child care costs	0364 1
5. Family life education programs	O364 13
6. Family maltreatment services	O36A 1/
7. Family recreation activities	Q36A_14
8. Family violence prevention information.	036A 14
9. Homework assistance for child	036A 15
10. Parenting classes	Q36A_19
11. Personal/family readiness services	Q30A_10
12. Preteen programs and services	Q36A_10
13. Respite childcare	Q36A_21
14. Single parents programs	Q30A_21
15. Support for mission related family separation	Q30A_22
16. Teen programs/services.	Q36A_43
17. Tutoring for child	Q36A_24
The reading for this	Q36A_25
D. FINANCIAL NEEDS	
1. Emergency financial assistance	0364.26
2. Financial help with relocation expenses	Q36A_27
3. Budget counseling	Q30A_27
4. Financial education/information	Q30A_20
	QJUA_29
E. HEALTH AND WELLNESS NEEDS	
1. Adult fitness activities	O364 30
2. Anger management	O364_31
3. Casualty assistance	0364_37
4. Health and wellness services	0364 33
5. Mental health services	0364_34
6. Nutrition information	Q30A_34
7. Prenatal/childbirth/newborn care	Q30A_33
8. Stress management.	Q30A_30
9. Substance abuse services	Q30A_37
10. Tobacco cessation services	Q30A_30
	Quois_us
F. RELOCATION/TRANSITION NEEDS	
1. Moving services/assistance	O36A 40
2. Relocation assistance	O36A 41
3. Relocation information (culture/environmental issues for	_
members/families/children)	O36A 42
4. Sponsorship assistance	O36A 43
5. Retirement employment information/leads	O36A 44
6. Retirement/separation workshops/seminars (job search skills: resume writing,	
job interviewing, Internet use)	Q36A 45
G. SPECIAL NEEDS	
1. Eldercare services	Q36A_46
2. Exceptional Family Member (EFMP) services)	O36A 47

# --SECOND, mark to indicate whether the program/service used, was provided by an on base or off base agency.

Off Base	
On Base 2	
A. COMMUNITY SERVICE NEEDS	
1. Directory of community services/programs	Q36B_1
2. Chapel services	Q36B_2
3. Community Center	Q36B_3
4. Housing referral	Q36B_4
5. Legal services	O36B 5
6. Volunteer opportunities	Q36B_6
B. EDUCATION/EMPLOYMENT NEEDS	
1. Adult continuing education	O36B 7
2. Family member employment assistance	Q36B_8
	Q50D_0
C. FAMILY/CHILDREN'S NEEDS	
1. Child care services/referrals	Q36B_9
2. Couples communication	Q36B_10
3. Children/youth programs/services	Q36B_11
4. Financial help with child care costs	Q36B_12
5. Family life education programs	O36B 13
6. Family maltreatment services	O36B 14
7. Family recreation activities	Q36B_15
8. Family violence prevention information	O36B 16
9. Homework assistance for child	Q36B 17
10. Parenting classes	O36B 18
11. Personal/family readiness services	O36B 19
12. Preteen programs and services	O36B 20
13. Respite childcare	O36B 21
14. Single parents programs	O36B 22
15. Support for mission related family separation	O36B 23
16. Teen programs/services	Q36B 24
17. Tutoring for child	Q36B_25
D. FINANCIAL NEEDS	
1. Emergency financial assistance	O36R 26
2. Financial help with relocation expenses	Q36B_27
3. Budget counseling	Q36B_27
4. Financial education/information	Q36B_20
<del></del>	Q5015_27
E.\HEALTH AND WELLNESS NEEDS	
1. Adult fitness activities.	Q36B 30
2. Anger management	O36B 31
3. Casualty assistance	O36B 32
4. Health and wellness services	O36B 33
5. Mental health services.	O36B 34
6. Nutrition information	O36B 35
7. Prenatal/childbirth/newborn care	O36R 36
	<u>-</u>

·	
8. Stress management	Q36B_3
9. Substance abuse services	O36B 3
10. Tobacco cessation services	Q36B_3
F. RELOCATION/TRANSITION NEEDS	
1. Moving services/assistance	Q36B_40
2. Relocation assistance	Q36B_4
3. Relocation information (culture/environmental issues for	
members/families/children)	Q36B_42
4. Sponsorship assistance	Q36B_43
5. Retirement employment information/leads	Q36B_44
6. Retirement/separation workshops/seminars (job search skills: resume writing	ıg,
job interviewing, Internet use)	Q36B_45
G. SPECIAL NEEDS	
	A 2 4 5 4 6
1. Eldercare services	Q36B_46
2. Exceptional Family Member (EFMP) services)	Q36B_47
37. How do YOU hear about community programs or services for you or me	mbers of your
family? (MARK ALL THAT APPLY.)	
Unmarked0	
Marked	
I never hear anything at all	Q37_1
Base phone book/operator	Q37 <sup>-</sup> 2
Bulletin boards on base	Q37 <sup>-</sup> 3
Chapel	Q37 <sup>-</sup> 4
Child Development Center/Youth Program	037 5
Children	O37 <sup>-</sup> 6
Daily/monthly bulletin	037 7
E-mail	
Family Advocacy Program	
Family Support Center	
Flyers	037 11
Friend or neighbors	O37 12
Health and Wellness Center	O37 13
Installation newspaper or newsletter	037 14
Local community newspaper	037 15
Marquee/electronic bulletin board	O37 16
Mental Health	037 17
Newcomers orientation	O37 18
Other families	037 19
Other unit members or co-workers	O37 20
Radio	037 21
School	037 22
Service provider on base	QJ_22
Service's monthly magazine	
Spouse	
Spouse support groups	
THE WAR STREET AND THE PROPERTY OF THE PROPERT	1.57 / //

Television	
Unit or base command or supervisor	
Web site	Q37_2
38. MARK WHETHER YOU AGREE OR DISAGREE W	TITH THE STATEMENT:
Programs or services that support families are imports	ant to my commitment to the
Air Force	Q3!
Strongly agree	,
Agree	
Neither agree nor disagree	
Disagree	
Strongly disagree	
38. How many PCS moves have you made during your or y	vous spousois Air Force
career?	
If less than 1, enter 00.	~
	سب عبید
40. Over all, how stressful was your PCS move to this base?	?Q40
Very stressful	
Moderately stressful	
Slightly stressful	
Not stressful	4
41. How supportive do you feel the following groups or pro-	grams are in your and your
family's daily lives?	
Not At All Supportive	1
Somewhat Supportive	
Very Supportive	
No Experience	
a. Wing leadership	041.1
b. Group leadership	Q41_1
b. Group leadership	Q41_2
c. Unit leadership	
	· -
e. Unit spouses	
f. Neighbors	
g. Chapel	Q41_7
h. Child Development & Youth Programs	Q41_8
i. Family Advocacy Program	
j. Family Support Center	Q41_10
k. Mental Health	Q4I_II
l. Health and Wellness Center (HAWC)	
m. Civilian community resources	Q41_13

42. Mark here if you have <u>NOT</u> been TDY or deploy If Marked, GO TO Q44	ved in the past 12 monthsQ42
Unmarked	
Marked	
43. How supportive do you feel the following groups of family, at this base, when you or your spouse was	or programs have been for you and your deployed or TDY in the past 12 months?
Not At All Supportive	
Somewhat Supportive	
Very Supportive	
No Experience	4
a. Wing leadership	O43 1
b. Group leadership	043 2
c. Unit leadership	Q43¯3
d. Unit spouses	Q43_4
e. Neighbors	043 5
f. Chapel	043 6
g. Child Development & Youth Programs	
h. Family Advocacy Program	
i. Family Support Center	043 9
j. Mental Health	O43 10
k. Health and Wellness Center (HAWC)	
I. Civilian community resources	Q43_12
44. During times of deployments, separations or unact types of assistance do you/your family members ne	companied tours which of the following ed? (MARK ALL THAT APPLY.)
Unmarked	
Predeployment support	044.1
Support during separations	044_1
Post deployment assistance	044 3
Help with child care costs	044_4
Family Care Plan help	044.5
Family support groups	044_6
	Q44_7
Youth supervision	044_9
Morale calls	044_0
Calls from unit to family	Q44_9
Newsletters	Q44_10
Financial planning	744_11
Emergency financial assistance	744_12
Workshops about family life/parenting	
E-mail communication	
L-man communication	

	pport	
Respite care		Q44_17
	ues of concern at this base in column we as a whole in column 2.	1 and the top 5 issues of concern
	5 in each column.)	
,	ked	٥
	d	
		***************************************
1. THIS BASE		
	•••••••••••••••••••••••••••••••••••••••	
I. Health care		Q45A_6
g. Recreation services.		Q45A_7
n. Separation from exte	nded family	Q45A_8
i. Urstempu		Q45A_9
J. Number of deployme	nt/TDYs	Q45A_10
	nts/TDYs	
m. Iransition services.	* .	Q45A_13
	debtedness	
o. Other (Specify)	Q450_OTH	Q45A_15
p. Other (Specify)	Q45P_OTH	Q45A_16
q. Other (Specify)	Q45Q_OTH	Q45A_17
r. Other (Specify)	Q45R_OTH	Q45A_18
2. AIR FORCE		
a. Housing		Q45B_1
b. Safety		Q45B_2
c. Spouse employment.		Q45B_3
d. Child care		Q45B_4
e. Youth services	***************************************	Q45B_5
f. Health care		Q45B_6
	nded family	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
j. Number of deployme	nt/TDYs	Q45B_10
k. Length of deploymer	ts/TDYs	Q45B_11
m. Transition services		Q45B_13
n. Personal financial inc	ebtedness	
o. Other (Specify)	Q45O_OTH	
p. Other (Specify)	Q45P_OTH	Q45B_16
q. Other (Specify)	Q45Q_OTH	
O.4 (C	OARD OFFI	

## 46. How many MINUTES does it take you to get to base?

			Q46 1
I HAC ON ONSE	*******************************	***************************************	Q46_1
If Q46_1 is unm	arked: Approximate i	number of minutes from re	esidence to base: Q46_2
work at your pri	imary paying job?	oximately how many HOU	RS PER WEEK do you
48. Do you have	e a second paying job?		Q48
No	********************************		
Yes, 1 - 10 hours	a week	***************************************	2
Yes, 11 - 30 hours	s a week	************************************	3
			4
49. What type of	shift do you normally	work at your primary pay	ing job?Q49
			1
			2
			3
8 hour - rotating s	shift	***************************************	4
12 hour - day shif	<u> </u>	***************************************	5
12 hour – night sh	ift	***************************************	6
12 hour rotating	shift		7
Other	. *************************************		8
50. Do you work other week)?	a flextime or compress	ed work schedule (e.g. 4 da	sys/week, day off every Q50
No			1
51. If the non-mil	litary member is emplo	yed, what is her/his annua	l income?Q51
Under \$10,000	***************************************	***************************************	
\$10,000 - \$20,000	***************************************	***************************************	2
\$20,001 - \$30,000		~~~~~~	3
\$30,001 - \$40,000	*******************************	*****************************	4
\$40,001 - \$50,000		*************	5

\$50,001 - \$60,000	
\$60,001 - \$70,000	***************************************
Above \$70,000	******************************
	**!**********************
52. How many children currently live with you?	05
(IF NO CHILDREN GO TO Q67.)	Q5
(2.10 0.10 0.10	
53. Indicate the ages of the five youngest children residing with you.	
If under age 1, mark 00.	
and an	
First child	062
	Q33
Second child	083 6
	Q53_7
***************************************	······································
Third child	0.00
7 100 A 100 Mark 100	Q33_3
	······
Fourth child	O. 20
r valur vinta	Q53_4
	······································
Fifth child	0.00
I 1141 VIII V	Q53_5
	<u>-</u>
54. For each item listed:	
54. For each item listed:	
ETDET manife and form below at a 1	
-FIRST, mark each item below that has been a concern for childre	a living
with you in the past 12 months.	
Unmarked	
Voltarked	0
Marked	1
l. Concern for Children:	
Abuse by femily member or other individual	
a. Abuse by family member or other individual	Q54A_1
o. Acting out at school/child care	Q54A_2
Adjusting to new schools/child care	Q54A_3
A Adjusting to step family	Q54A_4
Alcohol use	Q54A_5
Close friend or family member dying	Q54A_6
. Conflict with parents	Q54A_7
. Depression	Q54A_8
. Divorce or separation of parents	054A 9
Drug use	0544 10
. Eating disorders (anorexia, bulimia)	O54A 11
Family separation because of military duty	O54A 12
n. Gang involvement	O54A 13
. Gifted child needs	0544 14
. Lack of recreational activities	

The Tank of any of a contact	
p. Lack of sex education	Q54A_1
q. Lack of youth employment opportunities	Q54A_1
r. Making new friends	Q54A_1
s. Parent(s) retiring/separating from the military	Q54A_1
t. Problems with dating	Q54A_2
u. Problems with police	Q54A_2
v. Problems with school work	Q54A_2
w. Racial or ethnic prejudice	Q54A_23
x. Separation from extended family (grandparents, aunt, uncles, etc.)	Q54A_24
y. Smoking	O54A 24
z. Suspension/expulsion from school	Q54A_20
aa. Talk of suicide/suicidal behavior	O54A 27
bb. Teen pregnancy	Q54A 28
SECOND, if you sought help, mark whether you got help ON or O On BaseOff Base	1
Help Sought: On Base or Off Base     Abuse by family member or other individual	
h. Acting out at echool/child one	Q54B_1
b. Acting out at school/child care	Q54B_2
c. Adjusting to new schools/child care	Q54 <i>B</i> _3
d. Adjusting to step-family	Q54B_4
e. Alcohol use	Q54B_5
f. Close friend or family member dying	Q54B_6
g. Conflict with parents	Q54B_7
h. Depression	Q54B_8
i. Divorce or separation of parents	Q54B_9
Drug use	Q54B_10
k. Eating disorders (anorexia, bulimia)	Q54B_11
I. Family separation because of military duty	Q54B_12
m. Gang involvement	Q54B_13
n. Gifted child needs	Q54B_14
D. Lack of recreational activities	Q54B_15
p. Lack of sex education	Q54B_16
q. Lack of youth employment opportunities	Q54B 17
. Making new friends	O54B 18
s. Parent(s) retiring/separating from the military	O54B 19
Problems with dating	O54B 20
1. Problems with police	Ö54B 21
/. Problems with school work	O54B 22
v. Racial or ethnic prejudice	O54B 23
c. Separation from extended family (grandparents, aunt, uncles, etc.)	O54R 24
/. Smoking	OS4B 25
2. Suspension/expulsion from school	O54B 26
a. Talk of suicide/suicidal behavior	O54P 27
b. Teen pregnancy	OE4D 20
b	

55. Do you use regularly scheduled child care arrangements during your or your spouse's work day?
No
56. I prefer my child care to be:
On base
57. I prefer my child care to be
Center-based care         1           Home-base care         2           No preference         3
Child Care: By Type of Arrangement

	Age of Child 1 Q58A1		Age of Child 2 Q58A2		Age of Child 3 Q58A3	
	Hours/week	Cost	Hours/week	Cost	Hours/week	Cost
Other relative/older		-			T T	Ì
sibling	Q58B1_1	Q58C1_1	Q58B2_1	Q58C2_1	Q58B3_1	Q58C3_1
Non-relative (e.g., nanny,						
etc.)	Q58B1_2	Q58C1_2	Q58B2_2	Q58C2_2	Q58B3_2	Q58C3_2
Military child care center/preschool	Q58B1_3	Q58C1_3	Q58B2_3	Q58C2_3	Q58B3_3	Q58C3_3
Civilian child care center/preschool	Q58B1_4	Q58C1_4	Q58B2_4	Q58C2_4	Q58B3_4	Q58C3_4
Military family child care home	Q58B1_5	Q58C1_5	Q58B2_5	Q58C2_5	Q58B3_5	Q58C3_5
Civilian family child care home-licensed	Q58B1_6	Q58C1_6	Q58B2_6	Q58C2_6	Q58B3_6	Q58C3_6
Civilian family child care home-not licensed	Q58B1_7	Q58C1_7	Q58B2_7	Q58C2_7	Q58B3_7	Q58C3_7
Military hourly child care service	Q58B1_8	Q58C1_8	Q58B2_8	Q58C2_8	Q58B3_8	Q58C3_8
Civilian hourly child care service	Q58B1_9	Q58C1_9	Q58B2_9	Q58C2_9	Q58B3_9	Q58C3_9
Military before/after school program	Q58B1_10	Q58C1_10	Q58B2_10	Q58C2_10	Q58B3_10	Q58C3_10
Civilian before/after school program	Q58B1_11	Q58C1_11	Q58B2_11	Q58C2_11	Q58B3_11	Q58C3_11
Other (specify) Q58_OTH	Q58B1_12	Q58C1_12	Q58B2_12	Q58C2_12	Q58B3_12	Q58C3_12

59. Now consider the childcare needs of all children living with you. For eare listed, indicate if you needed that type of childcare in the past 12 mon not needed) (MARK ALL THAT APPLY.)	each type of child ths (leave blank if
Unmarked	.0
Marked	. 1
Type of Child Care	
Part-day child care on base (0 – 5 yrs)	059 1
Part-day child care off base (0 - 5 yrs)	O59 2
Full-day child care on base (0 – 5 yrs)	O50 3
Full-day child care off base (0 – 5 yrs)	050 4
Drop-in (hourly) child care on base (0 – 12 yrs)	050 5
Drop-in (hourly) child care off base (0 – 12 yrs)	0.50 A
Overnight care (0 – 18 yrs)	O59 7
Full day summer care (6 – 12 yrs)	O50 8
Sick child care (0 – 12 yrs)	O50 0
Give Parents A Break (0 - 12 yrs)	O50 10
School-age program-on base (6 – 12 yrs)	O50 11
School-age program- off base (6 – 12 yrs)	O50 12
Child care for PCS moves	O50 13
Family child care for volunteers	O50 14
60. Consider the child care arrangement that you use most frequently. Indisatisfaction with each of the following factors by marking the box correspanting. Mark N/A if not applicable.	sponding to your
Very Dissatisfied	ſ
Dissatisfied	ż
Neutral	3
Satisfied	4
Very Satisfied	5
Not Applicable	6
a. Cost	060.1
b. Hours of operation	O60 2
c. Location	Q00_2 O60_3
d. National accreditation	O60.4
e. Number/variety of age-appropriate activities	
f. Provider/staff turnover.	Q00_3
g. Quality of the building/facility/space	
n. Quality of the equipment/supplies/materials	
Quality of the meals/snacks	
. Safety/health	
c. Staft/child interaction.	Q00_10
Staff/child ratio	
n. Staff training	Q00_12

61. How to cover w	many days <u>in the past</u> ork or duty responsil	month have you needed child care more than 10 hours	s a day O61
•••	***************************************		·
		d care arrangements impact your or your spouse's	Q62
		***************************************	
Not at all	••••••••		4
		REN BETWEEN AGE 6 AND 18, MARK HERE	
AND GO	TO Q67		Q63
	Unmarked	0	
		1	
64. How sa instruction	itisfied are with the ovial classes, etc.) at this	verall quality of the Youth Program (Youth sports, s base, for your child(ren) in each of the following age g	roups
64. How sa instruction	ial classes, etc.) at this	base, for your child(ren) in each of the following age g	roups
64. How sa instruction	ual classes, etc.) at this  Very Satisfied	s base, for your child(ren) in each of the following age g	groups
64. How sa lustruction	very Satisfied Satisfied	base, for your child(ren) in each of the following age g	groups
64. How sa instruction	Very Satisfied Satisfied Dissatisfied	base, for your child(ren) in each of the following age g	groups
64. How sa instruction	Very Satisfied Satisfied Dissatisfied Very dissatisfied.	base, for your child(ren) in each of the following age g	groups
i <b>nstructio</b> t	Very Satisfied Satisfied Dissatisfied Very dissatisfied No experience owing age groups:	base, for your child(ren) in each of the following age g	
i <b>ustruction</b> For the foll A. 6-10 yea	Very Satisfied Satisfied Dissatisfied Very dissatisfied No experience owing age groups:	base, for your child(ren) in each of the following age g	264_1
iustruction For the foll A. 6-10 yea B. 11-14 yea	Very Satisfied Satisfied Dissatisfied Very dissatisfied No experience owing age groups:	base, for your child(ren) in each of the following age g	)64_1 )64_2
instruction For the foll A. 6-10 yea B. 11-14 yea	Very Satisfied Satisfied Dissatisfied Very dissatisfied No experience owing age groups:	base, for your child(ren) in each of the following age g	)64_1 )64_2
For the foli A. 6-10 yea B. 11-14 ye C. 15-18 ye	Very Satisfied  Satisfied  Dissatisfied  Very dissatisfied  No experience  owing age groups:  ars	base, for your child(ren) in each of the following age g	)64_1 )64_2
For the foli A. 6-10 yes B. 11-14 ye C. 15-18 ye	Very Satisfied  Satisfied  Dissatisfied  Very dissatisfied  No experience  owing age groups:  ars	3 base, for your child(ren) in each of the following age g	)64_1 )64_2
For the foll A. 6-10 yes B. 11-14 ye C. 15-18 ye	Very Satisfied  Satisfied  Dissatisfied  Very dissatisfied  No experience  owing age groups:  urs  ars  ften has your child(rent the last 12 months?	a base, for your child(ren) in each of the following age g	)64_1 )64_2
For the foll A. 6-10 yes B. 11-14 ye C. 15-18 ye	Very Satisfied  Satisfied  Dissatisfied  Very dissatisfied  No experience  owing age groups:  urs  ars  ften has your child(rent the last 12 months?	a base, for your child(ren) in each of the following age g	)64_1 )64_2
For the foli A. 6-10 yes B. 11-14 ye C. 15-18 ye	Very Satisfied  Satisfied  Dissatisfied  Very dissatisfied  No experience  owing age groups:  ars  ften has your child(renthe last 12 months?  Nearly every day. 2-3 days a week	a base, for your child(ren) in each of the following age g	)64_1 )64_2
For the foli A. 6-10 yes B. 11-14 ye C. 15-18 ye	Very Satisfied  Satisfied  Dissatisfied  Very dissatisfied  No experience  owing age groups:  ars  ften has your child(renthe last 12 months?  Nearly every day.  2-3 days a week  Once a week	abase, for your child(ren) in each of the following age g	)64_1 )64_2
For the foli A. 6-10 yes B. 11-14 ye C. 15-18 ye	Very Satisfied  Satisfied  Dissatisfied  Very dissatisfied  No experience  owing age groups:  ars  ften has your child(renthe last 12 months?  Nearly every day.  2-3 days a week  Once a week  I to 3 times a mon	a base, for your child(ren) in each of the following age g	)64_1 )64_2

For the following age groups:	
A. 6-10 years	O65
B. 11-14 years	
C. 15-18 years	
	· •
66. Below is a list of potential problems with the Youth have had with YP at this base, for your child(ren) in the	
THAT APPLY.)	o ago groups instead (instanting)
Unmarked	0
Marked	
A. 6-10 years	
a. Children not interested in activities offered	0664
b. Hours of operation.	
c. Interferes with family time	Q00A_2
d. Interferes with homework	Q00A_3
e. Lack of supervision by staff	
f I parties	Q00A_3
f. Locationg. No problems with Youth Program	Q00A_0
g. No problems with 1 outh Flogram	Q06A_/
h. Poor facilityi. Takes too much parental time & effort	Q00A_8
i. Takes too much paremar time & erfort	Q00A_9
j. Too costlyk. Too few activities offered	Q00A_10
I I i forest ble neer programs	Q60A_11
I. Unfavorable peer pressure	Q00A_12
m. Untrained staff	Q06A_13
B. 11-14 years	
a. Children not interested in activities offered	O66B 1
b. Hours of operation	
c. Interferes with family time	O66B 3
d. Interferes with homework	O66B 4
e. Lack of supervision by staff	O66B 5
f. Location	О66В 6
g. No problems with Youth Program	
h. Poor facility	O66B 8
i. Takes too much parental time & effort	Q66B_9
. Too costly	Q66B 10
k. Too few activities offered	Q66B_11
I. Unfavorable peer pressure	Q66B_12
m. Untrained staff	Q66B_13
C. 15-18 years	
C. 15-10 years	040.4
a. Children not interested in activities offered	Q66C_1
b. Hours of operation	Q66C_Z
. Interferes with family time	Q66C_3
d. Interferes with homework	Q66C_4
e. Lack of supervision by staff	Q66C_5
f. Location	Q66C_6
g. No problems with Youth Program	
n. Poor facility	O66C 8

i. Takes too t	nuch parental time & effort	O66C
i. Too costly		O66C 1
	ctivities offered	
	le peer pressure	
	staff	
	would you change to make things better for individuals/families li his space to write any comments about programs/services on your	
needs you ba	ive that were not covered in this survey.	Q6′
	Unmarked0	
	Marked 1	
ADDITION	AL VARIABLES	
Age in Years		AGE
•		
Active Duty	Marriage Status	ADMADET
Active Duty	Warriage Status	ADWARSI
Single		
	vilian	
	, 1	
D D W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Active Duty	Status	STATUS
Civilian Spou	se	
	•	
Active Duty	Rank	ADRANK
Enlisted		1
Officer		2
Cl-411 C	ıse Rank	CCDD 4 NIZ
Civilian Spot	ise Kank	CSPRAINK
Enlisted		
Officer		2
Base Name		BASE
	AMC BASES	
	5Andrews AFB	•
	13Charleston AFB	
	16 Dover AFB	
	24Fairchild AFB	

	7
27	Grand Forks AFE
47	
50	
51	MaCanall AFF
21	McConnell AFE
52	
.64	
69	
75	Travis AFE
ALL BASES	
1	11th Wing
2	RAF
3	Altus AFB
4	
5	
6	Aviano AFB
7	Barksdale AFB
8	
9	Bolling AFB
10	Brooks AFB
11	
12	Cannon AFB
13	Charleston AFB
14	
15	
16	
17	
18	
19	
20	
21	
22	Elmendorf AFB
23	
24	Fairchild AFB
25	Geilenkirchen Air Base
26	
27	
28	
29	
30	Hill AFB
31	
32	
33	Incirlik Air Base
34	Izmir Air Station
35	Kadena Air Base
36	
37	
38	
39	
40	

Langley	AFB
Little Rock	AFB
Los Angeles	AFB
Moody /	<b>AFB</b>
Scott A	IFB
Vandenhera A	FR
	RAF Lakenh Langley Laughlin Little Rock Los Angeles Luke MacDill Malmstrom Maxwell McConnell McC

# Appendix C

## Matrices

## Lambda-X

	Stressor event	Pile-up of	Resources
		demands	
Deployment	$\lambda_{1, 1}$	0	0
Marital pile-up	0	$\lambda_{2,2}$	0
Family pile-up	0	$\lambda_{3,2}$	0
Job pile-up	0	$\lambda_{4,2}$	0
Financial pile-up	0	$\lambda_{5,2}$	0
Personal resources	0	0	$\lambda_{6,3}$
Family resources	0	0	$\lambda_{7,3}$
Social support	0	0	$\lambda_{8,3}$

## Beta

	Perception of "a"	Perception of all	Adaptation
Perception of "a"	0	0	0
Perception of all	0	0	0
Adaptation	$\beta_{3,1}$	$eta_{3,2}$	0

## Gamma

	Stressor event	Pile-up of	Resources
		demands	
Perception of "a"	<b>7</b> 1, 1	0	0
Perception of all	<b>γ</b> 2,1	<b>γ</b> 2,2	<b>γ</b> 2,3
Adaptation	0	0	0

Psi

	Stressor	Pile-up	Resource	Percepti	Percepti	Adaptati
	event	of	S	on of "a"	on of all	on
		demands				
Stressor event	0	0	0	0	0	0
Pile-up of	$\phi_{2,1}$	0	0	0	0	0
demands						
Resources	ф3,1	ф3,2	0	0	0	0
Perception of "a"	0	0	0	0	0	0
Perception of all	0	0	0	$\phi_{2,1}$	0	0
Adaptation	0	0	0	0	0	0

## Theta-Delta

$\delta_{1,1}$							
0	$\delta_{2,2}$						
0	0	$\delta_{3,2}$					
0	0	0	$\delta_{4,2}$				
0	0	0	0	$\delta_{5,2}$			
0	0	0	0	0	$\delta_{6,3}$		
0	0	0	0	0	0	$\delta_{7,3}$	
0	0	0	0	0	0	0	$\delta_{8,3}$

## Appendix D

#### Measurement Model

$$x = \Lambda_X \, \xi + \delta$$

$$\begin{pmatrix}
X_1 \\
X_2 \\
X_3 \\
X_4 \\
X_5 \\
X_6 \\
X_7 \\
X_8
\end{pmatrix} = \begin{pmatrix}
\lambda_{11} & 0 & 0 \\
0 & \lambda_{22} & 0 \\
0 & \lambda_{32} & 0 \\
0 & \lambda_{42} & 0 \\
0 & \lambda_{52} & 0 \\
0 & 0 & \lambda_{63} \\
0 & 0 & \lambda_{73} \\
0 & 0 & \lambda_{83}
\end{pmatrix} + \begin{pmatrix}
\delta_1 \\
\delta_2 \\
\delta_3 \\
\delta_4 \\
\delta_5 \\
\delta_6 \\
\delta_7 \\
\delta_8
\end{pmatrix}$$

#### Structural Model

$$\eta = B\eta + \Gamma\xi + \psi$$

$$\begin{bmatrix} \eta^1 \\ \eta^2 \\ \eta^3 \end{bmatrix} = \begin{bmatrix} 0 & & & \\ 0 & 0 & & \\ \beta_2 & \beta_3 & 0 \end{bmatrix} x \begin{bmatrix} \eta^1 \\ \eta^2 \\ \eta^3 \end{bmatrix} + \begin{bmatrix} \gamma_{11} & 0 & 0 \\ \gamma_{21} & \gamma_{22} & \gamma_{23} \\ 0 & 0 & 0 \end{bmatrix} x \begin{bmatrix} \xi_1 \\ \xi_2 \\ \xi_3 \end{bmatrix} + \begin{bmatrix} \delta_{11} & & \\ \delta_{21} & \delta_{22} \\ \delta_{31} & \delta_{32} & \delta_{33} \end{bmatrix}$$

### Appendix E Structural Equation Modeling Syntax

!LISREL Input for Analysis of Hypothesized Structural Equation Model of Stress and !Adaptation for Married Female Military Personnel During Deployment

DAta NImput=11 NObservations=1819 MAtrix=KM

LAbels

deploy marpile fampile jobpile finpile persres famres socsup percstres percall adapt

KM SY

1.00

0.003 1.00

-0.002 0.062 1.00

0.128 0.120 0.085 1.00

0.022 0.184 0.121 0.180 1.00

-0.137 -0.144 -0.024 -0.100 -0.170 1.00

-0.024 -0.392 -0.081 -0.264 -0.224 0.057 1.00

-0.007 0.026 0.093 0.041 0.035 -0.057 -0.032 1.00

0.097 -0.043 -0.017 0.039 -0.098 0.066 0.018 0.013 1.00

0.076 -0.002 -0.007 0.018 -0.050 0.013 0.045 0.053 -0.060 1.00

0.002 -0.201 -0.081 -0.272 -0.187 -0.042 0.445 -0.017 0.010 -0.007 1.00

!SD

percstres percall adapt deploy marpile fampile jobpile finpile persres famres socsup

MOdel NY=3 NX=8 NE=3 NK=3 BE=FU,FI GA=FU,FI PS=SY,FR LX=FU,FI LY=FU,FI TE=DI,FI TD=SY,FI

LE

PSTRESS PALL RESULT

LK

EVENT PILEUP RESOURCE

FR LX(2,2) LX(3,2) LX(4,2) LX(5,2) LX(6,3) LX(7,3) LX(8,3)

FR BE(3,1) BE(3,2)

FR GA(1,1) GA(2,1) GA(2,2) GA(2,3)

FR TD(2,2) TD(3,3) TD(4,4) TD(5,5) TD(6,6) TD(7,7) TD(8,8)

ST 1.0 LX (1,1) LY (1,1) LY (2,2) LY(3,3)

PAth Diagram

OUtput SC EF MR MI PC Ad=off