Employee Mobility in the National Wildlife Refuge System

A Survey of Employees

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EXECUTIVE SUMMARY

An internet-based survey of all employees in the U.S. Fish and Wildlife Service National Wildlife Refuge System (NWRS) was designed to assess the history of employee relocation, willingness to relocate for future advancement, and factors that affect employees’ willingness to relocate. The survey also assessed projected rates of retirement, participation in leadership development programs and the effects of various incentives on employees’ willingness to relocate for career advancement.

A total of 1,069 employees responded to the survey, approximately one-third of all NWRS employees. Respondents were representative of NWRS employees with respect to geographic dispersion and gender but employees in higher pay grades (GS-12 and higher) responded at higher rates than those in lower pay grades. Refuge managers, wildlife biologists and other biological scientists responded at higher rates than employees in other occupational series.

Seventy percent of employees said they intended to work the rest of their careers with the NWRS, while 28% were unsure. Women were almost twice as likely as men to be uncertain or to say they would not spend the rest of their careers with the NWRS.

Nineteen percent of NWRS employees plan to retire by 2014 and 43% plan to retire by 2020, i.e., approximately one out of five positions in the NWRS will become vacant in the next 5 years and nearly half will become vacant in the next 10 years. Twenty-four percent of refuge managers plan to retire by 2014. More Washington Office (28%) and regional office (26%) employees plan to retire by 2014 than refuge unit employees (17%).

Fifty-four percent of employees relocated at least once to take a different position within the NWRS since 2000 and 27% relocated two or more times in that period. Eighty percent of employees expressed willingness to relocate at least once to achieve their ultimate career goals and 52% were willing to relocate two or more times to achieve their ultimate career goals.

Only 16% of NWRS employees said they would consider relocating to the Washington Office in the next few years, compared to 35% who said they would consider relocating to a regional office and 68% who said they would consider relocating to another refuge unit. Among the occupational series, wildlife biologists were least willing to consider relocating to a regional office or the Washington Office, while other biological scientists were most willing. Thirty-two percent of employees currently working on refuge units indicated they were willing to consider relocating to a regional office and 13% said they would consider relocating to the Washington Office. Twenty-five percent of regional office employees said they would consider relocating to the Washington Office.

Interest in a promotion, desire to diversify experience, and desire to contribute more to the mission of the NWRS rated higher in importance than all other reasons among those who indicated they would consider relocating in the next few years. Employees who would consider relocating to the Washington Office rated each of those three reasons as very important more frequently than employees who would consider relocating to a regional office. Employees who
would consider relocating to another refuge unit rated those three reasons as very important less frequently than those who would consider relocating to either a regional office or the Washington Office.

Employees who were unsure about relocating or who indicated they would not consider relocating in the next few years rated nearly all of the reasons given for not wanting to relocate as equally important. However, employees who were uncertain or would not consider relocating to a regional office or the Washington Office cited concern for assuming more administrative duties as very important more frequently than employees who were uncertain or would not consider relocating to another refuge unit. The latter group of employees more frequently cited family concerns in their reluctance to relocate (e.g., concern for disruption of a significant other’s career, not wanting to move farther away from family or friends, disruption of kids’ school/social lives).

Women tended to rate all reasons for relocating as very important more often than men, but especially for desire to diversify experience and desire to relocate to a place that offered more opportunities for a significant other. Employees at the GS-9 level or lower cited interest in a promotion as a very important reason for relocating more often than employees at GS-11 or above.

Women and younger employees rated concern for the disruption of a significant other’s career as a very important reason not to relocate more often than men or older employees. Younger employees also rated disruption of kids’ school/social lives and concern for the quality of schools at the new location as very important reasons not to relocate more often than older employees.

Financial incentives, such as providing a housing allowance or providing a cash relocation incentive were more likely to greatly increase an employee’s willingness to relocate than opportunities to get back to the field. Financial incentives were particularly important to increasing the willingness of employees to relocate to the Washington Office. All of the listed incentives were more important to employees who aspired to positions in the Washington Office than they were to employees who aspired to positions in regional offices or refuge units. Employees who cited family concerns as important reasons not to relocate were less likely than those with financial concerns to say that any of the incentives described in the survey would greatly increase their willingness to relocate.

Overall, employees more often felt that establishing additional regional and national leadership positions at locations outside of major urban areas would be very effective in improving and encouraging NWRS leadership development than offering short-term or long-term detail positions. Women and employees with less than 10 years of service with the NWRS were more likely than other employees to say that short-term detail assignments would be somewhat or very effective in improving and encouraging leadership development.

The survey results identify numerous challenges and opportunities, as well as some potential strategies, for the NWRS leadership to consider. It is encouraging to note that 80% of NWRS employees are willing to relocate at least once to achieve their ultimate career goals and
more than half of them are willing to relocate two or more times. Although only 16% of employees said they would consider relocating to the Washington Office in the next few years, and 35% said they would consider relocating to a regional office, that still means that about 500 NWRS employees would consider relocating to the Washington Office and approximately 1,000 would consider relocating to a regional office. Another 20% of employees (600) were uncertain about relocating to the Washington Office and 25% (750) were uncertain about relocating to regional offices. Those are substantial pools of talent from which to recruit future leaders.

The survey results suggest that announcements of leadership positions should appeal to opportunities for advancement, diversification of experience and ability to contribute significantly to achievement of the NWRS mission. If those appeals are combined with financial incentives for relocation, especially providing a housing allowance or a cash relocation incentive, the NWRS should be able to persuade more employees to consider advancement and relocation.
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>1</td>
</tr>
<tr>
<td>Methods</td>
<td>2</td>
</tr>
<tr>
<td>Results</td>
<td>3</td>
</tr>
<tr>
<td>Response Rate</td>
<td>3</td>
</tr>
<tr>
<td>Demographic Characteristics of Respondents</td>
<td>3</td>
</tr>
<tr>
<td>Relocation History and Reasons for Relocation</td>
<td>4</td>
</tr>
<tr>
<td>Willingness to Relocate to Achieve Career Goals</td>
<td>4</td>
</tr>
<tr>
<td>Interest in Relocating to a Different Refuge, a Regional Office or the Washington Office</td>
<td>5</td>
</tr>
<tr>
<td>Reasons Why Employees Would or Would Not be Willing to Relocate</td>
<td>7</td>
</tr>
<tr>
<td>Incentives for Relocation</td>
<td>9</td>
</tr>
<tr>
<td>Expanding Leadership Development Opportunities</td>
<td>11</td>
</tr>
<tr>
<td>Demographic Cross-Tabulations</td>
<td>12</td>
</tr>
<tr>
<td>Discussion and Conclusions</td>
<td>15</td>
</tr>
<tr>
<td>Literature Cited</td>
<td>16</td>
</tr>
<tr>
<td>List of Tables</td>
<td>17</td>
</tr>
<tr>
<td>Appendix A. Tables</td>
<td>49</td>
</tr>
<tr>
<td>Appendix B. Additional Written Comments</td>
<td>503</td>
</tr>
<tr>
<td>Appendix C. Questionnaire</td>
<td>603</td>
</tr>
</tbody>
</table>
INTRODUCTION

In the first quarter of the 21st century, natural resource agencies face a perfect storm of personnel issues. Multiple fronts of massive retirements, smaller recruitment pools for entry-level positions, and reluctance of existing agency personnel to relocate and advance into positions of leadership in agencies could lead to a critical shortage of leaders and managers. To prepare for these colliding fronts of personnel issues, natural resource agencies have begun to engage in workforce planning, the practice of purposeful plans for transitioning between generations of agency personnel.

Members of the Baby Boomer generation, the children born between the end of World War II and the early 1960s, will retire in great numbers in the early 21st century. Natural resource agencies will feel the effects of those retirements even more than most other organizations because most agencies increased their workforces substantially during the “Environmental Decade” of the 1970s. Those employees now have 30 or more years of service and are eligible for pensions.

The second front in the perfect storm of personnel issues consists of smaller recruitment pools for agencies hiring new entry-level personnel. Most university natural resource programs in the United States have experienced declining enrollments since the mid-1990s. In addition to declining enrollments, the type of students enrolled in university natural resource programs has changed significantly. Many of today’s students belong to the “Animal Planet Generation,” students who grew up learning about wildlife by watching television programs rather than learning by first-hand experience through hunting and fishing. Compared to previous generations of students, fewer of today’s students have their sights set on a career with a management-oriented natural resource agency (McMullin et al. 2009).

The final converging front in the perfect storm of personnel issues is the reluctance of existing agency employees to relocate and advance to positions of leadership in agencies. A study of state fish and wildlife agency personnel found that only about one in four employees was interested in moving up in the agency and willing to relocate to the state headquarters to do so (McMullin 2004). The perfect storm of personnel issues then, consists of a mass exodus of retiring employees, combined with a dearth of qualified new recruits and a reluctant remaining few to fill vacated positions of leadership.

This report addresses one aspect of the perfect storm of personnel issues in the National Wildlife Refuge System (NWRS) of the U.S. Fish and Wildlife Service: the willingness of employees to relocate for the purpose of career advancement. The report summarizes the findings of a survey of employees of the NWRS. The survey documented the history of relocation by employees, their willingness to relocate to achieve career goals, the reasons why they would be willing to relocate (or not), and the estimated effects of various incentives on employees’ willingness to relocate.
METHODS

The contractor developed the survey with input from NWRS Leadership Team members on successive drafts throughout the spring, 2009. The original focus on leadership and mobility within the NWRS was narrowed to focus more specifically on issues of mobility. We chose to conduct the survey via the internet because all NWRS employees had ready access to the internet, the cost of an internet-based survey was substantially less than a mail survey, and the time required for implementation was considerably shorter for an internet-based survey.

All employees of the NWRS were invited to participate in an on-line survey on July 10, 2009 via an email message from the Chief of the NWRS. One follow-up reminder email was sent to all employees on July 20, 2009 and the survey closed for data collection on August 13, 2009. Standard survey protocol called for one or two more reminders, but NWRS leaders were concerned about sending too many emails to employees and opted for only one reminder. Although several hundred more responses would likely have been generated by additional follow-up reminders, the number of respondents was adequate for all analyses and comparison to demographic characteristics of the whole NWRS personnel population suggested that respondents were fairly representative of the whole population. Data were downloaded to an SPSS file for analyses.
RESULTS

Response Rate

- 1,069 NWRS employees responded to the survey. This represents approximately one-third of NWRS employees, however, the exact response rate was not determined because the contractor did not know the total number of employees.

- Responses by region ranged from 80 in the Pacific Southwest (R8) to 178 in the Midwest (R3; Table 1). The 49 responses listed as system missing in Table 1 include 39 respondents from the Washington Office.

Demographic Characteristics of Respondents

- Respondents averaged 13 years of service with the NWRS, with 38% of employees serving less than 10 years, 38% between 10 and 19 years, and 23% serving 20 or more years (Table 2).

- 18% of NWRS employees had not worked for any other employers and another 40% had worked for only 1 or 2 other employers (Table 3).

- 70% of employees said they intended to work the rest of their careers for the NWRS, while 28% were unsure (Table 4).

- 19% of NWRS employees plan to retire by 2014 and 43% plan to retire by 2020 (Table 5).

- NWRS employees responding to the survey averaged 45 years of age (median = 46) and ranged from 19 to 68 years of age (Table 6). 38% of employees were 50 or older, while only 27% were under 40.

- 63% of respondents were men, 37% were women.

- 62% of respondents were in the fish and wildlife administrator/refuge manager, wildlife biologist or other biological scientist occupational series (Table 7).

- 27% of respondents were at the GS-9 level or less, 44% were GS-11 or GS-12, and 28% were at GS-13 or higher (Table 8).

- 81% of respondents worked on refuge units, 15% worked in regional offices and 4% worked in the Washington Office (Table 9).

- Comparison of demographic characteristics of respondents to NWRS statistics indicates that respondents were representative of all employees with respect to geographic dispersion and gender. However, respondents in higher grade levels (GS-12 and higher) responded at higher rates than those in lower grade levels. Refuge managers, wildlife
biologists and other biological scientists responded at higher rates than employees in other occupational series.

Relocation History and Reasons for Relocation

- 54% of employees relocated to take a different position within the NWRS at least once since 2000 and 27% relocated two or more times (Table 10). 51% of employees relocated at least once between 1990 and 1999 and 26% relocated two or more times during that period (Table 11).

- Employees who relocated since 2000 cited a desire to diversify their experience (31% very important; Table 12), desire for a promotion (26% very important; Table 13), and desire to contribute more to the mission of the NWRS (24% very important; Table 14) as very important reasons in their decisions to relocate more frequently than all other reasons. Relocating to an area with a lower cost of living was least important to employees (Tables 15-20).

- 45% of refuge managers relocated 2 or more times since 2000, significantly more than employees in other occupational series (Table 21). General maintenance employees (76%) and general administration employees (67%) relocated less frequently since 2000 than employees in other occupational series.

- More employees who intended to spend the rest of their careers in the NWRS (31%) than employees who were uncertain about the rest of their careers (19%) relocated 2 or more times since 2000 (Table 22).

- 71% of employees who had participated in the Stepping Up to Leadership (SUTL) Program relocated at least once since 2000, compared to 52% of employees who had not participated in the program (Table 23).

- 76% of employees who had participated in the Advanced Leadership Development Program (ALDP) relocated at least once since 2000, compared to 53% of employees who had not participated in the program (Table 24).

- Frequency of relocation since 2000 did not differ significantly between men (57% relocating one or more times since 2000) and women (50% relocating one or more times since 2000; Table 25) or among regions (ranging between 44% and 62% of employees who had relocated one or more times since 2000; Table 26).

Willingness to Relocate to Achieve Career Goals

- 80% of respondents indicated they were willing to relocate at least once to achieve their ultimate career goal, and 52% were willing to relocate two or more times to achieve their ultimate career goal (Table 27).
Employees who were uncertain about spending the rest of their careers with the NWRS were more likely to say they would relocate two or more times to achieve their ultimate career goals (60%) than those who intended to spend the rest of their careers with the NWRS (47%; Table 28).

Employees at GS-11 and GS-12 levels (both 83%) were more likely than employees at other grades to indicate they would be willing to relocate at least once to achieve their ultimate career goals (Table 29).

95% of employees who indicated they hoped to work at the Washington Office level some day were willing to relocate at least once to achieve their ultimate career goals, compared to 88% of employees to aspired to a Regional Office position and 72% of employees who desired to stay at the Refuge level (Table 30).

Wildlife biologists (84%) and refuge managers (82%) were slightly more likely to express a willingness to relocate to achieve their ultimate career goals than employees in other occupational series (Table 31).

Employees who plan to retire in 2021 or later were more likely to express willingness to relocate to achieve their ultimate career goals (82% to 90%) than employees who plan to retire prior to 2021 (42% to 77%), except for the group of employees who plan to retire between 2015 and 2017 (85%; Table 32). This anomaly could reflect a desire among these employees to relocate one or two more times (71% of respondents in this retirement cohort) to improve their retirement benefits.

Willingness to relocate to achieve an ultimate career goal did not differ between men and women (Table 33), regions (Table 34), or between employees who participated or did not participate in SUTL or ALDP programs (Tables 35 and 36).

Although employees more often gave a rating of 4 or 5 on the importance scale to diversifying experience (76%), contributing to the NWRS mission (66%), and desire for a promotion (61%) as reasons for previous relocations, more than 80% of employees who rated any reason 4 or 5 on the importance scale indicated that they were willing to relocate at least once to achieve their ultimate career goal (Tables 37 through 45).

**Interest in Relocating to a Different Refuge, a Regional Office or the Washington Office**

68% of respondents indicated they would consider relocating to another refuge in the next few years (Table 46). 35% of respondents said they would consider relocating to a regional office (Table 47) and 16% said they would consider relocating to the Washington Office (Table 48).

Respondents who said they intended to spend their entire careers in the NWRS were more likely to say they would not consider relocating to another refuge (Table 49), a regional office (Table 50), or the Washington Office (Table 51).
• 65% to 78% of employees who intended to retire in 2015 or later said they would consider relocating to another refuge within the next few years, compared to 32% of those who intended to retire in 2009-2011 and 48% of those who intended to retire in 2012-2014 (Table 52). Only 11% of employees who intended to retire in 2009-2011 said they would consider relocating to a regional office, compared to 29% to 48% of employees in those retirement cohorts from 2012 through 2026 and later (Table 53). A similar pattern emerged among those who would consider relocating to the Washington Office, with only 8% of those who intended to retire in 2009-2011 answering yes, compared to 13% to 21% of those in other retirement cohorts (Table 54).

• The percentage of employees who would consider relocating to another refuge decreased from 92% of those less than 30 years of age to 43% of those 60 or older (Table 55). Approximately one-half as many employees in each age group would consider relocating to a regional office (44% among the youngest employees, 26% among the oldest employees; Table 56) and employees in all age groups showed little difference and no consistent pattern in willingness to consider relocating to the Washington Office (14% to 21%; Table 57).

• Biological scientists other than wildlife biologists demonstrated greater willingness to consider relocating to either a regional office (47%) or the Washington Office (23%) than employees in other occupational series (Tables 58 and 59). Wildlife biologists were least willing to consider relocating to regional offices or the Washington Office. Willingness to consider relocating to another refuge showed little variation across occupational series (Table 60).

• 72% to 90% of employees at GS-4 through GS-8 levels were willing to consider relocating to another refuge, compared to 53% (GS-14) to 70% (GS-11) of employees at higher grade levels (Table 61). Grade level had little effect on willingness to consider relocating to a regional office, with 32% to 39% of employees at GS-9 and above answering yes (Table 62). GS-13 (19%) and GS-14 (34%) employees were more likely (although not greatly so) to consider relocating to the Washington Office than employees at lower grades (Table 63).

• 70% of employees currently working on a refuge unit indicated they were willing to consider relocating to another refuge (Table 64), while only 32% said they would consider relocating to a regional office (Table 65) and 13% said they would consider relocating to the Washington Office (Table 66). 59% of regional office employees would consider relocating to a refuge unit; 49% said they would consider relocating to a (presumably other) regional office, and 25% said they would consider relocating to the Washington Office.

• Employees who identified the Washington Office as the highest level at which they hoped to work consistently showed more willingness to consider relocating to any location (Tables 67-69).

• Gender and Region had little effect on willingness to consider relocation to any locations.
Reasons Why Employees Would or Would Not be Willing to Relocate

- Interest in a promotion, desire to diversify experience and desire to contribute more to the mission of the NWRS rated higher in importance than all other reasons among those employees who indicated they would consider relocating in the next few years. Responses of employees who would consider relocating to the Washington Office are found in Tables 70-78. Responses of employees who would consider relocating to a regional office are found in Tables 79-87. Responses of employees who would consider relocating to another refuge unit are found in Tables 88-96.

- Employees who indicated they would consider relocating to the Washington Office were more likely to rate all three of these reasons as very important (62-64%; Tables 70-72) than employees who would consider relocating to a regional office (54-58%; Tables 79-81). Employees who would consider relocating to another refuge unit rated all three reasons as very important less frequently (47-49%; Tables 88-90) than those who would consider relocating to either a regional or the Washington Office.

- A majority of employees who said they were uncertain or would not consider relocating to the Washington Office gave importance ratings of 4 or 5 to all but one of the 10 reasons listed for not relocating (concern for the availability of amenities), and all 9 of those reasons were about equally important in their decisions (53-62% rated 4 or 5 in importance; Tables 97-106).

- Employees who said they were uncertain or would not consider relocating to a regional office responded similarly to those who were dubious about relocating to Washington, with 9 out of 10 reasons receiving majority importance ratings of 4 or 5 (52-63%; Tables 107-116). Again, concern for lack of amenities was the only reason cited as less important in their decisions.

- Employees who said they were unsure or would not consider relocating to another refuge unit showed greater variation in their reasons for not wanting to relocate, with only 4 out of 10 reasons receiving a majority of importance ratings of 4 or 5 (54-72%; Tables 117-126).

- Unlike the employees who were dubious about relocating to a regional office or the Washington Office, for whom concern about assuming more administrative duties topped the list of reasons not to relocate, family concerns tended to be more important for employees who were uncertain or would not consider relocating to another refuge unit. Concern for disruption of a significant other’s career topped the list (72% rated 4 or 5 in importance), followed by not wanting to move farther away from family or friends (68%), and disruption of kids’ school/social lives (62%).

- Cross-tabulations of reasons for relocation with application to or participation in leadership development programs yielded only two significant interactions. 60% of employees who had applied to the ALDP program rated contributing to the mission of the NWRS as very important, compared to 45% of those who had not applied (Table 127).
57% of employees who had applied to the SUTL program rated diversification of experience as very important, compared to 45% of those who had not applied (Table 128). Interestingly, employees who rated interest in a promotion as very important did not differ significantly in rates of application or participation in either leadership development program (Tables 129-132).

- Employees who had worked for the NWRS less than 10 years tended to rate all of the reasons for relocating except contributing more to the mission of NWRS as very important more frequently than employees who had worked for the NWRS longer (Tables 133-141).

- Employees who intended to spend the rest of their careers with NWRS and those who were uncertain about the rest of their careers showed little difference in their perceptions of importance of reasons for relocating, except for contributing more to the mission of NWRS, which career employees rated as very important more frequently (51% to 38%; Tables 142-150).

- Not surprisingly, employees who projected their retirement dates after 2017 rated the importance of diversifying their experience as a very important reason for relocating more frequently than those who intended to retire in 2017 or earlier. Employees with later projected retirement dates rated family-related reasons for relocating as very important more frequently than those with earlier projected retirement dates (Tables 151-159).

- Employees in younger age groupings tended to rate nearly all reasons for relocating as very important more frequently than older employees (except for contributing to the NWRS mission and cost of living; Tables 160-168). The differences were most prominent with respect to family-related reasons for relocating.

- Women tended to rate reasons for relocating as very important more frequently than men, with particularly significant differences in desire to diversify experience (55% for women, 42% for men) and opportunities for a significant other (44% for women, 31% for men; Tables 169-177).

- Two reasons for relocating generated especially significant results for employees at different GS levels: desire for a promotion and opportunities for a significant other (Tables 178-186). 63% or more of employees at GS-9 or less rated desire for a promotion as a very important reason to relocate, compared to 46% or less of employees at GS-11 or higher. Between 44% and 67% of employees in GS 5-11 levels rated opportunities for a significant other as very important, compared to 31% or less of employees at GS-12 or higher.

- Employees who aspired to work in the Washington Office rated desire for a promotion, diversifying experience and contribution to the NWRS mission as very important reasons to relocate far more frequently than employees who aspired to work in a regional office (and both groups rated those reasons as very important more frequently than employees
who did not wish to work at a level above a refuge unit). On all other reasons for relocating, employees did not differ in perception of importance (Tables 187-195).

• Ratings of the importance of reasons for relocating showed little variation with respect to Occupational Series (Tables 196-204), whether employees worked on a refuge, in a regional office or the Washington Office (Tables 205-213), or by region (214-222).

• Gender, age and retirement date yielded the most significant differences in ratings of importance of reasons not to relocate. Women rated disruption of a significant other’s career as very important far more frequently than men did (59% to 35%; Table 223). Younger employees rated disruption of a significant other’s career, disruption of kids’ school/social lives and concern for quality of schools as very important more frequently than older employees (Tables 224-226). Employees who plan to retire in 2026 or later rated disruption of kids’ school/social lives and quality of schools as very important more frequently than employees who planned to retire sooner (Tables 227-228).

• Employees from the Midwest Region (R3) tended to rate most reasons for not relocating as very important more frequently than employees from other regions (Tables 229-238). All other demographic cross-tabulations with reasons not to relocate yielded only minor differences (data not presented).

Incentives for Relocation

• Financial incentives (providing a housing allowance, 53%, or providing a cash relocation incentive, 52%) were more likely than other incentives to greatly increase employees’ willingness to relocate to any other location. Other incentives had substantially less effect on employees’ willingness to relocate, although 45% of employees said that agency assistance in finding a job for a significant other would greatly increase their willingness to relocate for advancement.

• Although only 16% of all employees said they were willing to consider relocating to the Washington Office and 21% were uncertain, 72% of employees who previously said they were willing to consider relocating to the Washington Office also said a housing allowance would greatly increase their willingness to relocate, and 68% of them also said providing a cash relocation incentive would greatly increase their willingness to relocate. Even among those who were uncertain, 59% said a housing allowance and 61% said a cash relocation incentive would greatly increase their willingness to relocate. All other incentives had substantially less effect on willingness to relocate (Tables 239-245).

• Agency assistance in finding a job for a significant other had a greater effect on those who were uncertain about relocating to the Washington Office (54% greatly increase) than those who were willing to consider relocating there (41% greatly increase).

• Employees responded similarly with regard to incentives and willingness to relocate to regional offices (Tables 246-252) and to other refuge units (Tables 253-259). In both cases, providing a housing allowance or a cash relocation incentive had the greatest effect.
on increasing willingness to relocate. Allowing employees to take an annual 2-week, back-to-the-field detail had the smallest effect on willingness to relocate to all three locations.

- Employees who rated any of the reasons for relocating as very important showed little variation in percentage who felt that any of the incentives for relocation would greatly increase their willingness to relocate (data not displayed).

- Approximately 50% or more of employees who rated financial concerns (difficulty selling a home, loss of value when selling a home, increased cost of living) as very important reasons for not relocating said that their willingness to relocate would be greatly increased by financial incentives (providing housing, providing a housing allowance, providing a cash relocation incentive; Tables 260-280).

- Employees who rated family concerns (moving farther from family or friends, disruption of significant other’s career, disruption of kids’ school/social lives, quality of schools), concern for lack of amenities, concern for loss of recreational opportunities, or concern for increasing administrative duties as very important were less likely than those with financial concerns to say that their willingness to relocate would be greatly increased by any of the incentives. The only exception was that 60% of employees who were concerned about disruption of a significant other’s career said that agency assistance in finding a job for their significant other would greatly increase their willingness to relocate (Tables 281-329).

- Financial incentives (providing a housing allowance, providing a cash relocation incentive) more frequently resulted in greatly increased willingness to relocate than any other incentive regardless of how long employees had worked for the NWRS. Employees with less than 10 years with NWRS were more likely to indicate that any of the incentives would greatly increase their willingness to relocate than employees with longer tenure (Tables 330-336).

- Younger employees said that all incentives would greatly increase their willingness to relocate more frequently than older employees (Tables 337-343).

- Financial incentives were more likely to greatly increase the willingness of employees in lower grades to relocate than those in higher grades (above GS-9). Providing housing was especially important to the willingness of the lowest grade employees (GS-4 and GS-5) to relocate (Tables 344-350).

- All incentives were more important to increasing the willingness of employees who aspired to positions in the Washington Office than to employees who aspired to positions in regional offices or refuge units (Tables 351-357). However, providing a housing allowance or a cash relocation incentive were especially important to employees who hoped to someday work in the Washington Office (71% and 72% greatly increase, respectively).
Other demographic cross-tabulations with incentives produced only occasional significant results, the most notable of which was that 57% of women said that agency assistance in finding a job for a significant other would greatly increase their willingness to relocate, compared to 39% of men (Table 358).

Expanding Leadership Development Opportunities

Overall, employees more often felt that establishing additional regional and national leadership positions at locations outside of major urban areas would be very effective (45%) in improving and encouraging NWRS leadership development than offering short-term (35%) or long-term (27%) detail positions (Tables 359-361).

Employees who were willing to relocate at least once to achieve their ultimate career goals more frequently identified long-term detail assignments or decentralizing leadership positions as very effective strategies for improving and encouraging NWRS leadership development than they did short-term detail assignments (Tables 362-364). More than 50% of employees who were willing to relocate 4 or 5 times to achieve career goals felt that long-term detail assignments would be very effective, compared to 23-29% of employees who were willing to relocate 1-3 times and 15% of employees who were unwilling to relocate.

Participation in or applying to leadership development programs had little effect on employees’ perception of the effectiveness of alternative leadership development opportunities. However, employees who either participated in or applied to the ALDP program were more likely than those who had not to say that long-term detail assignments would be very effective in improving and encouraging NWRS leadership development (Tables 365-366). Employees who either participated in or applied to the SUTL program were slightly more likely than those who had not to say that decentralizing leadership development opportunities would be very effective or somewhat effective (Tables 367-368).

Although approximately 80% of all employees felt that short-term detail assignments would be somewhat or very effective in improving and encouraging NWRS leadership development, employees with less than 10 years in the NWRS (42%) were more likely to say that they would be very effective than employees with 10-19 years of service (35%) or those with 20 or more years of service (23%; Table 369). About two-thirds of all employees felt that long-term detail assignments would be somewhat or very effective, but again, employees with less than 10 years service (45%) were more likely to say they would be very effective than employees with 10-19 years of service (37%) and those with 20 or more years of service (18%; Table 370). Approximately 80% or more of employees felt that decentralizing leadership development opportunities would be somewhat or very effective. Forty-nine percent of employees in both the under 10 years and 10-19 years categories felt that decentralizing would be very effective, compared to only 33% of employees with 20 or more years of service (Table 371).
Women felt that short-term details would be very effective in improving and encouraging NWRS leadership development more often than men (42% vs. 31%). Men and women did not differ in their views of the effectiveness of long-term detail assignments or decentralizing leadership development opportunities (Tables 372-374).

Employees in various occupational series fell into two categories with regard to effectiveness of short-term detail assignments. Between 42 and 50% of recreation planners/park rangers (non-law enforcement), general administration, other biological scientists, and general maintenance employees felt that short-term detail assignments would be very effective in improving and encouraging leadership development (Table 375). In contrast, only 27-31% of refuge managers, wildlife biologists and law enforcement park rangers felt short-term detail assignments would be very effective. Employees in the various occupational series did not differ significantly in their view of the effectiveness of long-term detail assignments or decentralization of leadership development opportunities (Tables 376-377).

Employees in different GS grade levels held significantly different (but not dramatically different) views of the effectiveness of leadership development opportunities. Between 40 and 52% of employees at GS levels 7 to 11 felt that short-term detail assignments would be very effective in improving and encouraging leadership development in the NWRS, compared to 26-32% of employees at GS levels 12-14 (Table 378). Views of the effectiveness of long-term detail assignments were mixed, with 41% of GS-14 employees identifying them as very effective. Twenty-one percent to 27% of mid-level grade employees (GS-9 to GS-13) felt that long-term detail assignments would be very effective, while 35% of GS-5 and 31% of GS-7 level employees identified them as very effective (Table 379). Approximately 80% of employees at GS-9 and higher felt that decentralizing leadership development opportunities would be very effective or somewhat effective, compared to about 70% of employees below GS-9 (Table 380).

Employees who aspired to Washington Office positions at some point in their careers rated long-term detail assignments and decentralization of leadership development opportunities as very effective more frequently (44% and 64%, respectively) than employees who aspired to regional office positions (33% and 47%) or refuge unit positions (18% and 40%; Tables 381-382). Employees with different career aspirations did not differ in their view of the effectiveness of short-term detail assignments.

Other demographic factors (intent to spend career with the NWRS, projected retirement date, age, and region) had no effect on view of the effectiveness of leadership development opportunities.

Demographic Cross-Tabulations

Employees with more years of service were much more likely to be men than women. 72% of employees with 20 or more years of service with the NWRS were men, compared to 64% of employees with 10-19 years of service and 56% of employees with less than 10 years of service (Table 383).
Not surprisingly, refuge managers tended to have more years of service than employees in other occupational series (42% 20 or more years). Fewer than 20% of employees in all other occupational series had 20 or more years of experience (except for those in realty; Table 384).

Years of service also had a predictable relationship with grade level. 42-100% of employees at GS-13 and higher had 20 or more years of experience (Table 385). Between 59% and 90% of employees at GS-9 or less had less than 10 years of service. Employees at GS-11 were about evenly split between the less than 10 years and 10-19 years of service categories (with only 13% having 20 or more years of service), while more than half of GS-12 employees had 10-19 years of experience.

Nearly half of Washington Office employees had less than 10 years of service with the NWRS and 36% had 20 or more years. Only 18% of Washington Office employees had 10-19 years of NWRS service (Table 386). Regional offices also had a large proportion of employees with less than 10 years of service (42%), but employees with 20 or more years of service comprised only 23% of all employees in regional offices or refuge units.

The cross-tabulation of highest level to which an employee aspired to work with years of NWRS service was similar to the comparison of where employees currently work. More than 40% of employees who aspired to a position in a regional office or the Washington Office had less than 10 years experience (Table 387). However, only 11% of employees who aspired to a position in the Washington Office had 20 or more years of service.

Employees under the age of 40 were significantly less certain that they would spend the rest of their careers with the NWRS (p < .001). 51% of employees under the age of 30 and 41% of employees from 30-39 said they were uncertain or would not spend the rest of their careers with the NWRS (Table 388). In contrast, only 27% of employees from 40-49, 23% of employees from 50-59, and 15% of employees 60 and older said they were uncertain or would not spend the rest of their careers with the NWRS.

Women (39%) were almost twice as likely as men (23%) to be uncertain or to say they would not spend the rest of their careers with the NWRS (Table 389).

Refuge managers (88%), general maintenance employees (78%), and wildlife biologists (70%) were more likely to say they intended to spend the rest of their careers with the NWRS than employees in other occupational series (Table 390).

40% or more of employees at GS-9 level or below were uncertain or did not intend to spend the rest of their careers with the NWRS, compared with 31% or fewer at GS-11 or above (Table 391).

Employees working on refuge units were more likely to say they intended to spend the rest of their careers with the NWRS (73%) than employees in the Washington Office (62%), and both were more likely than regional office employees to spend the rest of their careers with the NWRS (Table 392). Similarly, employees who aspired to jobs at
the refuge unit level (77%) were more likely to say they intended to spend the rest of their careers with the NWRS than employees who aspired to either regional office positions (66%) or Washington Office positions (60%; Table 393).

- Employees in the regions did not differ significantly in their intention to spend the rest of their careers with the NWRS (Table 394).

- Although the expected retirement of 79% of employees 60 years of age or older by 2014 is not surprising, the departure of 44% of employees in the 50-59 age bracket by 2014 seems significant (Table 395).

- 24% of refuge managers plan to retire by 2014 (Table 396). At the other extreme, 70% of wildlife biologists plan to retire after 2020.

- Although 49% of GS-14 employees plan to retire by 2014, 41% of GS-13, 58% of GS-12, and 65% of GS-11 employees plan to retire after 2020 (Table 397).

- Retirements through 2014 will hit the Washington Office (28%) and regional offices (26%) harder than refuge units (17%; Table 398).

- Projected retirement rates did not differ between men and women (Table 399) or among the regions (Table 400).
DISCUSSION AND CONCLUSIONS

The NWRS faces many of the same personnel challenges that confront other natural resource agencies. Many of the people who work for the NWRS chose a career in natural resources because they had a passion for nature and the outdoors. Natural resource professionals often prefer to live and work in rural areas and to be in the field, rather than behind a desk (Magill 1988). As a result, many of them choose not to pursue career-advancing positions that would require them to relocate to more populous and costly areas, and into positions that take them out of the field and into administration (McMullin 2005, McMullin et al. 2005).

The survey results identify numerous challenges and opportunities, as well as some potential strategies, for the NWRS leadership to consider. It is encouraging to note that 80% of NWRS employees are willing to relocate at least once to achieve their ultimate career goals and more than half of them are willing to relocate two or more times. Although only 16% of employees said they would consider relocating to the Washington Office in the next few years, and 35% said they would consider relocating to a regional office, that still means that about 500 NWRS employees would consider relocating to the Washington Office and approximately 1,000 would consider relocating to a regional office. Another 20% of employees (600) were uncertain about relocating to the Washington Office and 25% (750) were uncertain about relocating to regional offices. Those are substantial pools of talent from which to recruit future leaders.

The survey results suggest that recruitment notices should appeal to opportunities for advancement, diversification of experience and ability to contribute significantly to achieving the NWRS mission. Combining those appeals with financial incentives for relocation, especially providing a housing allowance or a cash relocation incentive, should persuade more employees to consider advancement and relocation. However, before investing heavily in financial incentives to promote employee relocation, the NWRS should consider whether or not future applicant pools are likely to produce acceptable candidates. If not, then significant investment to encourage mobility is warranted. If the applicant pools are adequate, it would be wise to ask if the benefits of investment outweigh the costs.

Many NWRS employees will not consider relocating. Decentralizing some positions of leadership to locations outside of Washington or the regional offices may entice some of those employees to advance. Electronic communication tools have improved the ability to telecommute dramatically, and manage many program functions effectively from remote locations. NWRS leaders must decide if recruiting talented employees to leadership positions who otherwise might not apply for them is worth the extra effort involved. In an agency that has most of its employees in decentralized locations already, that may not be too great a challenge.

Although flexibility and alternative arrangements for encouraging employees to take on leadership responsibilities are good, the NWRS should continue to encourage employees to diversify their experience through relocating occasionally. The most effective and respected leaders in natural resource agencies tend to be people who have a variety of experiences in a variety of places, as well as excellent leadership qualities (McMullin 1993). Incentives that help employees to relocate more easily, such as those presented in the survey, may help to develop more and better prepared future leaders of the NWRS.
LITERATURE CITED


LIST OF TABLES

Table 1. Number of responses by region. 50

Table 2. Number of responses by employees with less than 10 years experience with the NWRS, 10-19 years experience and 20 or more years of experience. 50

Table 3. Number of employers other than the NWRS for which employees have worked. 51

Table 4. Number of employees who plan to spend the rest of their careers with the NWRS (Yes), who were uncertain of their future career plans, and who did not plan to spend the rest of their careers with the NWRS. 52

Table 5. Number and percent of employees who plan to retire during various time periods from 2009 until 2026 or later. 52

Table 6. Number and percent of employees in various age groups. 53

Table 7. Number and percent of employees in various occupational series. 53

Table 8. Number and percent of employees in various GS-level pay grades. 54

Table 9. Number and percent of employees to worked on refuge units, in regional offices and in the Washington Office. 54

Table 10. Number and percent of employees who relocated within the NWRS since 2000. 55

Table 11. Number and percent of employees who relocated within the NWRS between 1990 and 1999. 55

Table 12. Cross-tabulation of number of times an employee relocated since 2000 with desire to diversify experience. 56

Table 13. Cross-tabulation of number of times an employee relocated since 2000 with desire to gain a promotion. 57

Table 14. Cross-tabulation of number of times an employee relocated since 2000 with desire to contribute more to the mission of the NWRS. 58

Table 15. Cross-tabulation of number of times an employee relocated since 2000 with desirability of the new location as a place to live. 59
Table 16. Cross-tabulation of number of times an employee relocated since 2000 with desire to move closer to family.

Table 17. Cross-tabulation of number of times an employee relocated since 2000 with desire to move to a location that provides more opportunities for the employee’s significant other.

Table 18. Cross-tabulation of number of times an employee relocated since 2000 with desire to move to a location with more opportunities for the employee’s children.

Table 19. Cross-tabulation of number of times an employee relocated since 2000 with desire to move to a location with a lower cost of living.

Table 20. Cross-tabulation of number of times an employee relocated since 2000 with desire to move to a location with more opportunities for outdoor recreation.

Table 21. Cross-tabulation of number of times an employee relocated since 2000 with occupational series.

Table 22. Cross-tabulation of number of times an employee relocated since 2000 with intention to spend the rest of the employee’s career with the NWRS.

Table 23. Cross-tabulation of number of times an employee relocated since 2000 with participation in the Stepping Up to Leadership Program (SUTL).

Table 24. Cross-tabulation of number of times an employee relocated since 2000 with participation in the Advanced Leadership Development Program (ALDP).

Table 25. Cross-tabulation of number of times an employee relocated since 2000 with gender.

Table 26. Cross-tabulation of number of times an employee relocated since 2000 with region.

Table 27. Number and percent of employees who would be willing to relocate to achieve their career goals.

Table 28. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with intent to spend the rest of their career with the NWRS.
Table 29. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with GS-level pay grade.

Table 30. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with highest level they hope to attain.

Table 31. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with occupational series.

Table 32. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with projected date of retirement.

Table 33. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with gender.

Table 34. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with region.

Table 35. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with participation in the Stepping Up to Leadership Program.

Table 36. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with participation in the Advanced Leadership Development Program.

Table 37. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with desire to attain a promotion.

Table 38. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with desire to diversify experience.

Table 39. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with desire to contribute more to the mission of the NWRS.

Table 40. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with desire to move to a more desirable location.

Table 41. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with desire to move closer to family.

Table 42. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with desire to move to a location that provides more opportunities for a significant other.
Table 43. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with desire to move to a location that provides more opportunities for the employee’s kids.

Table 44. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with desire to move to a location with a lower cost of living.

Table 45. Cross-tabulation of employees’ willingness to relocate to achieve their career goals with desire to move to a location that provides more opportunities for outdoor recreation.

Table 46. Number and percent of employees who would consider relocating to another refuge unit in the next few years.

Table 47. Number and percent of employees who would consider relocating to a regional office in the next few years.

Table 48. Number and percent of employees who would consider relocating to the Washington Office in the next few years.

Table 49. Cross-tabulation of willingness to consider relocating to another refuge unit in the next few years with intention to spend the rest of the employee’s career with the NWRS.

Table 50. Cross-tabulation of willingness to consider relocating to a regional office in the next few years with intention to spend the rest of the employee’s career with the NWRS.

Table 51. Cross-tabulation of willingness to consider relocating to the Washington Office in the next few years with intention to spend the rest of the employee’s career with the NWRS.

Table 52. Cross-tabulation of willingness to consider relocating to another refuge unit in the next few years with projected date of retirement.

Table 53. Cross-tabulation of willingness to consider relocating to a regional office in the next few years with projected date of retirement.

Table 54. Cross-tabulation of willingness to consider relocating to the Washington office in the next few years with projected date of retirement.

Table 55. Cross-tabulation of willingness to consider relocating to another refuge unit in the next few years with age groups.
Table 56. Cross-tabulation of willingness to consider relocating to a regional office in the next few years with age groups.

Table 57. Cross-tabulation of willingness to consider relocating to the Washington Office in the next few years with age groups.

Table 58. Cross-tabulation of willingness to consider relocating to a regional office in the next few years with occupational series.

Table 59. Cross-tabulation of willingness to consider relocating to the Washington Office in the next few years with occupational series.

Table 60. Cross-tabulation of willingness to consider relocating to another refuge unit in the next few years with occupational series.

Table 61. Cross-tabulation of willingness to consider relocating to another refuge unit in the next few years with GS-level pay grade.

Table 62. Cross-tabulation of willingness to consider relocating to a regional office in the next few years with GS-level pay grade.

Table 63. Cross-tabulation of willingness to consider relocating to the Washington Office in the next few years with GS-level pay grade.

Table 64. Cross-tabulation of willingness to consider relocating to another refuge unit in the next few years with present location in the NWRS.

Table 65. Cross-tabulation of willingness to consider relocating to a regional office in the next few years with present location in the NWRS.

Table 66. Cross-tabulation of willingness to consider relocating to the Washington Office in the next few years with present location in the NWRS.

Table 67. Cross-tabulation of willingness to consider relocating to another refuge unit in the next few years with highest level the employee hopes to attain within the NWRS.

Table 68. Cross-tabulation of willingness to consider relocating to a regional office in the next few years with highest level the employee hopes to attain within the NWRS.

Table 69. Cross-tabulation of willingness to consider relocating to the Washington Office in the next few years with highest level the employee hopes to attain within the NWRS.
Table 70. Cross-tabulation of willingness to consider relocating to the Washington Office in the next few years with desire to attain a promotion.

Table 71. Cross-tabulation of willingness to consider relocating to the Washington Office in the next few years with desire to diversify experience.

Table 72. Cross-tabulation of willingness to consider relocating to the Washington Office in the next few years with desire to contribute more to the mission of the NWRS.

Table 73. Cross-tabulation of willingness to consider relocating to the Washington Office in the next few years with desire to move to a more desirable location.

Table 74. Cross-tabulation of willingness to consider relocating to the Washington Office in the next few years with desire to move closer to family.

Table 75. Cross-tabulation of willingness to consider relocating to the Washington Office in the next few years with desire to move to a location that provides more opportunities for a significant other.

Table 76. Cross-tabulation of willingness to consider relocating to the Washington Office in the next few years with desire to move to a location that provides more opportunities for the employee’s kids.

Table 77. Cross-tabulation of willingness to consider relocating to the Washington Office in the next few years with desire to move to a location with a lower cost of living.

Table 78. Cross-tabulation of willingness to consider relocating to the Washington Office in the next few years with desire to move to a location that provides more opportunities for outdoor recreation.

Table 79. Cross-tabulation of willingness to consider relocating to a regional office in the next few years with desire to attain a promotion.

Table 80. Cross-tabulation of willingness to consider relocating to a regional office in the next few years with desire to diversify experience.

Table 81. Cross-tabulation of willingness to consider relocating to a regional office in the next few years with desire to contribute more to the mission of the NWRS.

Table 82. Cross-tabulation of willingness to consider relocating to a regional office in the next few years with desire to move to a more desirable location.
Table 83. Cross-tabulation of willingness to consider relocating to a regional office in the next few years with desire to move closer to family.

Table 84. Cross-tabulation of willingness to consider relocating to a regional office in the next few years with desire to move to a location that provides more opportunities for a significant other.

Table 85. Cross-tabulation of willingness to consider relocating to a regional office in the next few years with desire to move to a location that provides more opportunities for the employee’s kids.

Table 86. Cross-tabulation of willingness to consider relocating to a regional office in the next few years with desire to move to a location with a lower cost of living.

Table 87. Cross-tabulation of willingness to consider relocating to a regional office in the next few years with desire to move to a location that provides more opportunities for outdoor recreation.

Table 88. Cross-tabulation of willingness to consider relocating to another refuge unit in the next few years with desire to attain a promotion.

Table 89. Cross-tabulation of willingness to consider relocating to another refuge unit in the next few years with desire to diversify experience.

Table 90. Cross-tabulation of willingness to consider relocating to another refuge unit in the next few years with desire to contribute more to the mission of the NWRS.

Table 91. Cross-tabulation of willingness to consider relocating to another refuge unit in the next few years with desire to move to a more desirable location.

Table 92. Cross-tabulation of willingness to consider relocating to another refuge unit in the next few years with desire to move closer to family.

Table 93. Cross-tabulation of willingness to consider relocating to another refuge unit in the next few years with desire to move to a location that provides more opportunities for a significant other.

Table 94. Cross-tabulation of willingness to consider relocating to another refuge unit in the next few years with desire to move to a location that provides more opportunities for the employee’s kids.
Table 95. Cross-tabulation of willingness to consider relocating to another refuge unit in the next few years with desire to move to a location that provides a lower cost of living.

Table 96. Cross-tabulation of willingness to consider relocating to another refuge unit in the next few years with desire to move to a location that provides more opportunities for outdoor recreation.

Table 97. Cross-tabulation of willingness to relocate to the Washington Office with reluctance to relocate because of the difficulty in selling a home.

Table 98. Cross-tabulation of willingness to relocate to the Washington Office with reluctance to relocate because of the loss of value in selling a home.

Table 99. Cross-tabulation of willingness to relocate to the Washington Office with reluctance to relocate because of the increase in cost of living at the new location.

Table 100. Cross-tabulation of willingness to relocate to the Washington Office with reluctance to relocate because the employee does not want to move farther away from family.

Table 101. Cross-tabulation of willingness to relocate to the Washington Office with reluctance to relocate because of disruption of a significant other’s career.

Table 102. Cross-tabulation of willingness to relocate to the Washington Office with reluctance to relocate because of disruption of kids’ school/social lives.

Table 103. Cross-tabulation of willingness to relocate to the Washington Office with reluctance to relocate because of concern for the quality of schools at the new location.

Table 104. Cross-tabulation of willingness to relocate to the Washington Office with reluctance to relocate because of concern for a lack of amenities at the new location.

Table 105. Cross-tabulation of willingness to relocate to the Washington Office with reluctance to relocate because of concern for lack of outdoor recreational opportunities at the new location.
Table 106. Cross-tabulation of willingness to relocate to the Washington Office with reluctance to relocate because of the employee’s concern for assuming more administrative duties.

Table 107. Cross-tabulation of willingness to relocate to a regional office with reluctance to relocate because of the difficulty in selling a home.

Table 108. Cross-tabulation of willingness to relocate to a regional office with reluctance to relocate because of the loss of value in selling a home.

Table 109. Cross-tabulation of willingness to relocate to a regional office with reluctance to relocate because of the increase in cost of living at the new location.

Table 110. Cross-tabulation of willingness to relocate to a regional office with reluctance to relocate because of concern for moving farther from family.

Table 111. Cross-tabulation of willingness to relocate to a regional office with reluctance to relocate because of concern for disruption of a significant other’s career.

Table 112. Cross-tabulation of willingness to relocate to a regional office with reluctance to relocate because of concern for disruption of kids’ school/social lives.

Table 113. Cross-tabulation of willingness to relocate to a regional office with reluctance to relocate because of concern for the quality of schools at the new location.

Table 114. Cross-tabulation of willingness to relocate to a regional office with reluctance to relocate because of concern for lack of amenities at the new location.

Table 115. Cross-tabulation of willingness to relocate to a regional office with reluctance to relocate because of concern for lack of outdoor recreation opportunities at the new location.

Table 116. Cross-tabulation of willingness to relocate to a regional office with reluctance to relocate because of concern for assuming more administrative duties.

Table 117. Cross-tabulation of willingness to relocate to another refuge unit with reluctance to relocate because of difficulty in selling a home.

Table 118. Cross-tabulation of willingness to relocate to another refuge unit with reluctance to relocate because of loss of value in selling a home.
Table 119. Cross-tabulation of willingness to relocate to another refuge unit with reluctance to relocate because of concern for the increased cost of living at the new location.

Table 120. Cross-tabulation of willingness to relocate to another refuge unit with reluctance to relocate because the employee did not want to move farther from family.

Table 121. Cross-tabulation of willingness to relocate to another refuge unit with reluctance to relocate because of concern for disruption of a significant other’s career.

Table 122. Cross-tabulation of willingness to relocate to another refuge unit with reluctance to relocate because of concern for disruption of kids’ school/social lives.

Table 123. Cross-tabulation of willingness to relocate to another refuge unit with reluctance to relocate because of concern for the quality of schools at the new location.

Table 124. Cross-tabulation of willingness to relocate to another refuge unit with reluctance to relocate because of concern for lack of amenities at the new location.

Table 125. Cross-tabulation of willingness to relocate to another refuge unit with reluctance to relocate because of concern for lack of opportunities for outdoor recreation at the new location.

Table 126. Cross-tabulation of willingness to relocate to another refuge unit with reluctance to relocate because of concern for assuming more administrative duties.

Table 127. Cross-tabulation of desire to contribute more to the mission of the NWRS with application to the Advanced Leadership Development Program.

Table 128. Cross-tabulation of desire to diversify experience with application to the Stepping Up to Leadership program.

Table 129. Cross-tabulation of desire to attain a promotion with application to the Stepping Up to Leadership program

Table 130. Cross-tabulation of desire to attain a promotion with application to the Advanced Leadership Development Program.

Table 131. Cross-tabulation of desire to attain a promotion with participation in the Stepping Up to Leadership program.
Table 132. Cross-tabulation of desire to attain a promotion with participation in the Advanced Leadership Development Program.

Table 133. Cross-tabulation of desire to attain a promotion with years of service in the NWRS.

Table 134. Cross-tabulation of desire to diversify experience with years of service in the NWRS.

Table 135. Cross-tabulation of desire to contribute more to the mission of NWRS with years of service in the NWRS.

Table 136. Cross-tabulation of desire to move to a more desirable location with years of service in the NWRS.

Table 137. Cross-tabulation of desire to move closer to family with years of service in the NWRS.

Table 138. Cross-tabulation of desire to move to a location that provides more opportunities for a significant other with years of service in the NWRS.

Table 139. Cross-tabulation of desire to move to a location that provides more opportunities for the employee’s kids with years of service in the NWRS.

Table 140. Cross-tabulation of desire to move to a location with a lower cost of living with years of service in the NWRS.

Table 141. Cross-tabulation of desire to move to a location that provides more opportunities for outdoor recreation with years of service in the NWRS.

Table 142. Cross-tabulation of desire to attain a promotion with intention to spend the rest of the employee’s career with the NWRS.

Table 143. Cross-tabulation of desire to diversify experience with intention to spend the rest of the employee’s career with the NWRS.

Table 144. Cross-tabulation of desire to contribute more to the mission of the NWRS with intention to spend the rest of the employee’s career with the NWRS.

Table 145. Cross-tabulation of desire to move to a more desirable location with intention to spend the rest of the employee’s career with the NWRS.
Table 146. Cross-tabulation of desire to move closer to family with intention to spend the rest of the employee’s career with the NWRS.

Table 147. Cross-tabulation of desire to move to a location that provides more opportunities for a significant other with intention to spend the rest of the employee’s career with the NWRS.

Table 148. Cross-tabulation of desire to move to a location that provides more opportunities for the employee’s kids with intention to spend the rest of the employee’s career with the NWRS.

Table 149. Cross-tabulation of desire to move to a location with a lower cost of living with intention to spend the rest of the employee’s career with the NWRS.

Table 150. Cross-tabulation of desire to move to a location that provides more opportunities for outdoor recreation with intention to spend the rest of the employee’s career with the NWRS.

Table 151. Cross-tabulation of desire for a promotion with projected date of retirement.

Table 152. Cross-tabulation of desire to diversify experience with projected date of retirement.

Table 153. Cross-tabulation of desire to contribute more to the mission of NWRS with projected date of retirement.

Table 154. Cross-tabulation of desire to relocate to a more desirable place to live with projected date of retirement.

Table 155. Cross-tabulation of desire to move to a location closer to family with projected date of retirement.

Table 156. Cross-tabulation of desire to move to a location that provides more opportunities for a significant other with projected date of retirement.

Table 157. Cross-tabulation of desire to move to a location that provides more opportunities for the employee’s kids with projected date of retirement.

Table 158. Cross-tabulation of desire to move to a location with a lower cost of living with projected date of retirement.

Table 159. Cross-tabulation of desire to move to a location that provides more opportunities for outdoor recreation with projected date of retirement.

Table 160. Cross-tabulation of desire for a promotion with age groups.
Table 161. Cross-tabulation of desire to diversify experience with age groups.

Table 162. Cross-tabulation of desire to contribute more to the mission of the NWRS with age groups.

Table 163. Cross-tabulation of desire to move to a more desirable location with age groups.

Table 164. Cross-tabulation of desire to move closer to family with age groups.

Table 165. Cross-tabulation of desire to move to a location that provides more opportunities for a significant other with age groups.

Table 166. Cross-tabulation of desire to move to a location that provides more opportunities for the employee’s kids with age groups.

Table 167. Cross-tabulation of desire to move to a location with a lower cost of living with age groups.

Table 168. Cross-tabulation of desire to move to a location that provides more opportunities for outdoor recreation with age groups.

Table 169. Cross-tabulation of desire for a promotion with gender.

Table 170. Cross-tabulation of desire to diversify experience with gender.

Table 171. Cross-tabulation of desire to contribute more to the mission of the NWRS with gender.

Table 172. Cross-tabulation of desire to move to a more desirable location with gender.

Table 173. Cross-tabulation of desire to move closer to family with gender.

Table 174. Cross-tabulation of desire to move to a location that provides more opportunities for a significant other with gender.

Table 175. Cross-tabulation of desire to move to a location that provides more opportunities for the employee’s kids with gender.

Table 176. Cross-tabulation of desire to move to a location that provides a lower cost of living with gender.
Table 177. Cross-tabulation of desire to move to a location that provides more opportunities for outdoor recreation with gender.

Table 178. Cross-tabulation of desire for a promotion with GS pay grade.

Table 179. Cross-tabulation of desire to diversify experience with GS pay grade.

Table 180. Cross-tabulation of desire to contribute more to the mission of the NWRS with GS pay grade.

Table 181. Cross-tabulation of desire to move to a more desirable location with GS pay grade.

Table 182. Cross-tabulation of desire to move closer to family with GS pay grade.

Table 183. Cross-tabulation of desire to move to a location that provides more opportunities for a significant other with GS pay grade.

Table 184. Cross-tabulation of desire to move to a location that provides more opportunities for the employee’s kids with GS pay grade.

Table 185. Cross-tabulation of desire to move to a location with a lower cost of living with GS pay grade.

Table 186. Cross-tabulation of desire to move to a location that provides more opportunities for outdoor recreation with GS pay grade.

Table 187. Cross-tabulation of desire for a promotion with highest level to which the employee aspires.

Table 188. Cross-tabulation of desire to diversify experience with highest level to which the employee aspires.

Table 189. Cross-tabulation of desire to contribute more to the mission of the NWRS with highest level to which the employee aspires.

Table 190. Cross-tabulation of desire to move to a more desirable location with highest level to which the employee aspires.

Table 191. Cross-tabulation of desire to move closer to family with highest level to which the employee aspires.

Table 192. Cross-tabulation of desire to move to a location that provides more opportunities for a significant other with highest level to which the employee aspires.
Table 193. Cross-tabulation of desire to move to a location that provides more opportunities for the employee’s kids with highest level to which the employee aspires.

Table 194. Cross-tabulation of desire to move to a location that provides a lower cost of living with highest level to which the employee aspires.

Table 195. Cross-tabulation of desire to move to a location that provides more opportunities for outdoor recreation with highest level to which the employee aspires.

Table 196. Cross-tabulation of desire for a promotion with occupational series.

Table 197. Cross-tabulation of desire to diversify experience with occupational series.

Table 198. Cross-tabulation of desire to contribute more to the mission of the NWRS with occupational series.

Table 199. Cross-tabulation of desire to move to a more desirable location with occupational series.

Table 200. Cross-tabulation of desire to move closer to family with occupational series.

Table 201. Cross-tabulation of desire to move to a location that provides more opportunities for a significant other with occupational series.

Table 202. Cross-tabulation of desire to move to a location that provides more opportunities for the employee’s kids with occupational series.

Table 203. Cross-tabulation of desire to move to a location that provides a lower cost of living with occupational series.

Table 204. Cross-tabulation of desire to move to a location that provides more opportunities for outdoor recreation with occupational series.

Table 205. Cross-tabulation of desire for a promotion with employee’s present location.

Table 206. Cross-tabulation of desire to diversify experience with employee’s present location.

Table 207. Cross-tabulation of desire to contribute more to the mission of the NWRS with employee’s present location.
Table 208. Cross-tabulation of desire to move to a more desirable location with employee’s present location.

Table 209. Cross-tabulation of desire to move closer to family with employee’s present location.

Table 210. Cross-tabulation of desire to move to a location that provides more opportunities for a significant other with employee’s present location.

Table 211. Cross-tabulation of desire to move to a location that provides more opportunities for the employee’s kids with employee’s present location.

Table 212. Cross-tabulation of desire to move to a location that provides a lower cost of living with employee’s present location.

Table 213. Cross-tabulation of desire to move to a location that provides more opportunities for outdoor recreation with employee’s present location.

Table 214. Cross-tabulation of desire for a promotion with region.

Table 215. Cross-tabulation of desire to diversify experience with region.

Table 216. Cross-tabulation of desire to contribute more to the mission of the NWRS with region.

Table 217. Cross-tabulation of desire to move to a more desirable location with region.

Table 218. Cross-tabulation of desire to move closer to family with region.

Table 219. Cross-tabulation of desire to move to a location that provides more opportunities for a significant other with region.

Table 220. Cross-tabulation of desire to move to a location that provides more opportunities for the employee’s kids with region.

Table 221. Cross-tabulation of desire to move to a location that provides a lower cost of living with region.

Table 222. Cross-tabulation of desire to move to a location that provides more opportunities for outdoor recreation with region.

Table 223. Cross-tabulation of desire not to relocate due to disruption of a significant other’s career with gender.
Table 224. Cross-tabulation of desire not to relocate due to disruption of a significant other’s career with age groups.

Table 225. Cross-tabulation of desire not to relocate due to disruption of kids’ school/social lives with age groups.

Table 226. Cross-tabulation of desire not to relocate due to concern for quality of schools at the new location with age groups.

Table 227. Cross-tabulation of desire not to relocate due to disruption of kids’ school/social lives with projected retirement date.

Table 228. Cross-tabulation of desire not to relocate due to concern for quality of schools at the new location with projected retirement date.

Table 229. Cross-tabulation of desire not to relocate due to the difficulty of selling a home with region.

Table 230. Cross-tabulation of desire not to relocate due to the loss of value in selling a home with region.

Table 231. Cross-tabulation of desire not to relocate due to the higher cost of living at the new location with region.

Table 232. Cross-tabulation of desire not to relocate because the employee does not want to move farther from family with region.

Table 233. Cross-tabulation of desire not to relocate due to disruption of a significant other’s career with region.

Table 234. Cross-tabulation of desire not to relocate due disruption of kid’s school/social lives with region.

Table 235. Cross-tabulation of desire not to relocate due to concern for quality of schools at the new location with region.

Table 236. Cross-tabulation of desire not to relocate due to concern for lack of amenities at the new location with region.

Table 237. Cross-tabulation of desire not to relocate due to concern for lack of opportunities for outdoor recreation with region.

Table 238. Cross-tabulation of desire not to relocate due to concern for not taking on more administrative duties with region.
Table 239. Cross-tabulation of willingness to consider relocating to the Washington Office with the incentive of the agency providing housing for the duration of the assignment.

Table 240. Cross-tabulation of willingness to consider relocating to the Washington Office with the incentive of the agency providing a housing allowance.

Table 241. Cross-tabulation of willingness to consider relocating to the Washington Office with the incentive of the agency providing a cash relocation incentive.

Table 242. Cross-tabulation of willingness to consider relocating to the Washington Office with the incentive of the agency assisting in locating housing at the new location.

Table 243. Cross-tabulation of willingness to consider relocating to the Washington Office with the incentive of the agency assisting the employee’s significant other in finding a job.

Table 244. Cross-tabulation of willingness to consider relocating to the Washington Office with the incentive of being able to take a two-week, back-to-the-field assignment each year.

Table 245. Cross-tabulation of willingness to consider relocating to the Washington Office with the incentive of being able to return to the region.

Table 246. Cross-tabulation of willingness to consider relocating to a regional office with the incentive of the agency providing housing for the duration of the assignment.

Table 247. Cross-tabulation of willingness to consider relocating to a regional office with the incentive of the agency providing a housing allowance.

Table 248. Cross-tabulation of willingness to consider relocating to a regional office with the incentive of the agency providing a cash relocation incentive.

Table 249. Cross-tabulation of willingness to consider relocating to a regional office with the incentive of the agency providing assistance in locating housing.

Table 250. Cross-tabulation of willingness to consider relocating to a regional office with the incentive of the agency assisting in locating a job for a significant other.
Table 251. Cross-tabulation of willingness to consider relocating to a regional office with the incentive of being able to take a two-week, back-to-the-field assignment each year.

Table 252. Cross-tabulation of willingness to consider relocating to a regional office with the incentive of being able to return to the region.

Table 253. Cross-tabulation of willingness to consider relocating to a different refuge unit with the incentive of the agency providing housing for the duration of the assignment.

Table 254. Cross-tabulation of willingness to consider relocating to a different refuge unit with the incentive of the agency providing a housing allowance.

Table 255. Cross-tabulation of willingness to consider relocating to a different refuge unit with the incentive of the agency providing a cash relocation incentive.

Table 256. Cross-tabulation of willingness to consider relocating to a different refuge unit with the incentive of the agency assisting in locating housing.

Table 257. Cross-tabulation of willingness to consider relocating to a different refuge unit with the incentive of the agency providing assistance in finding a job for a significant other.

Table 258. Cross-tabulation of willingness to consider relocating to a different refuge unit with the incentive of being able to take a two-week, back-to-the-field assignment each year.

Table 259. Cross-tabulation of willingness to consider relocating to a different refuge unit with the incentive of being able to return to the region.

Table 260. Cross-tabulation of desire not to relocate because of the difficulty in selling a home with the incentive of the agency providing housing for the duration of the assignment.

Table 261. Cross-tabulation of desire not to relocate because of the difficulty in selling a home with the incentive of the agency providing a housing allowance.

Table 262. Cross-tabulation of desire not to relocate because of the difficulty in selling a home with the incentive of the agency providing a cash relocation incentive.
Table 263. Cross-tabulation of desire not to relocate because of the difficulty in selling a home with the incentive of the agency providing assistance in locating housing.

Table 264. Cross-tabulation of desire not to relocate because of the difficulty in selling a home with the incentive of the agency providing assistance in finding a job for a significant other.

Table 265. Cross-tabulation of desire not to relocate because of the difficulty in selling a home with the incentive of being able to take a two-week, back-to-the-field assignment each year.

Table 266. Cross-tabulation of desire not to relocate because of the difficulty in selling a home with the incentive of being able to return to the region.

Table 267. Cross-tabulation of desire not to relocate because of the loss of value in selling a home with the incentive of the agency providing housing for the duration of the assignment.

Table 268. Cross-tabulation of desire not to relocate because of the loss of value in selling a home with the incentive of the agency providing a housing allowance.

Table 269. Cross-tabulation of desire not to relocate because of the loss of value in selling a home with the incentive of the agency providing a cash relocation incentive.

Table 270. Cross-tabulation of desire not to relocate because of the loss of value in selling a home with the incentive of the agency assisting in locating housing.

Table 271. Cross-tabulation of desire not to relocate because of the loss of value in selling a home with the incentive of the agency providing assistance in finding a job for a significant other.

Table 272. Cross-tabulation of desire not to relocate because of the loss of value in selling a home with the incentive of being able to take a two-week, back-to-the-field assignment each year.

Table 273. Cross-tabulation of desire not to relocate because of the loss of value in selling a home with the incentive of being able to return to the region.
Table 274. Cross-tabulation of desire not to relocate because of the increased cost of living at the new location with the incentive of the agency providing housing for the duration of the assignment.

Table 275. Cross-tabulation of desire not to relocate because of the increased cost of living at the new location with the incentive of the agency providing a housing allowance.

Table 276. Cross-tabulation of desire not to relocate because of the increased cost of living at the new location with the incentive of the agency providing a cash relocation incentive.

Table 277. Cross-tabulation of desire not to relocate because of the increased cost of living at the new location with the incentive of the agency providing assistance in locating housing.

Table 278. Cross-tabulation of desire not to relocate because of the increased cost of living at the new location with the incentive of the agency providing assistance in finding a job for a significant other.

Table 279. Cross-tabulation of desire not to relocate because of the increased cost of living at the new location with the incentive of being able to take a two-week, back-to-the-field assignment each year.

Table 280. Cross-tabulation of desire not to relocate because of the increased cost of living at the new location with the incentive of being able to return to the region.

Table 281. Cross-tabulation of desire not to relocate because of concern for moving farther away from family with the incentive of the agency providing housing for the duration of the assignment.

Table 282. Cross-tabulation of desire not to relocate because of concern for moving farther away from family with the incentive of the agency providing a housing allowance.

Table 283. Cross-tabulation of desire not to relocate because of concern for moving farther away from family with the incentive of the agency providing a cash relocation incentive.

Table 284. Cross-tabulation of desire not to relocate because of concern for moving farther away from family with the incentive of the agency providing assistance in locating housing.

Table 285. Cross-tabulation of desire not to relocate because of concern for moving farther away from family with the incentive of the agency providing assistance in finding a job for a significant other.
Table 286. Cross-tabulation of desire not to relocate because of concern for moving farther away from family with the incentive of being able to take a two-week, back-to-the-field assignment each year.

Table 287. Cross-tabulation of desire not to relocate because of concern for moving farther away from family with the incentive of being able to return to the region.

Table 288. Cross-tabulation of desire not to relocate because of concern for disruption of a significant other’s career with the incentive of the agency providing housing for the duration of the assignment.

Table 289. Cross-tabulation of desire not to relocate because of concern for disruption of a significant other’s career with the incentive of the agency providing a housing allowance.

Table 290. Cross-tabulation of desire not to relocate because of concern for disruption of a significant other’s career with the incentive of the agency providing a cash relocation incentive.

Table 291. Cross-tabulation of desire not to relocate because of concern for disruption of a significant other’s career with the incentive of the agency providing assistance in locating housing.

Table 292. Cross-tabulation of desire not to relocate because of concern for disruption of a significant other’s career with the incentive of the agency providing assistance in finding a job for a significant other.

Table 293. Cross-tabulation of desire not to relocate because of concern for disruption of a significant other’s career with the incentive of being able to take a two-week, back-to-the-field assignment each year.

Table 294. Cross-tabulation of desire not to relocate because of concern for disruption of a significant other’s career with the incentive of being able to return to the region.

Table 295. Cross-tabulation of desire not to relocate because of concern for disruption of kids’ school/social lives with the incentive of the agency providing housing for the duration of the assignment.

Table 296. Cross-tabulation of desire not to relocate because of concern for disruption of kids’ school/social lives with the incentive of the agency providing a housing allowance.
Table 297. Cross-tabulation of desire not to relocate because of concern for disruption of kids’ school/social lives with the incentive of the agency providing a cash relocation incentive

Table 298. Cross-tabulation of desire not to relocate because of concern for disruption of kids’ school/social lives with the incentive of the agency providing assistance in locating housing

Table 299. Cross-tabulation of desire not to relocate because of concern for disruption of kids’ school/social lives with the incentive of the agency providing assistance in finding a job for a significant other.

Table 300. Cross-tabulation of desire not to relocate because of concern for disruption of kids’ school/social lives with the incentive of being able to take a two-week, back-to-the-field assignment each year.

Table 301. Cross-tabulation of desire not to relocate because of concern for disruption of kids’ school/social lives with the incentive of being able to return to the region.

Table 302. Cross-tabulation of desire not to relocate because of concern for the quality of schools at the new location with the incentive of the agency providing housing for the duration of the assignment.

Table 303. Cross-tabulation of desire not to relocate because of concern for the quality of schools at the new location with the incentive of the agency providing a housing allowance.

Table 304. Cross-tabulation of desire not to relocate because of concern for the quality of schools at the new location with the incentive of the agency providing a cash relocation incentive.

Table 305. Cross-tabulation of desire not to relocate because of concern for the quality of schools at the new location with the incentive of the agency providing assistance in locating housing.

Table 306. Cross-tabulation of desire not to relocate because of concern for the quality of schools at the new location with the incentive of the agency providing assistance in finding a job for a significant other.

Table 307. Cross-tabulation of desire not to relocate because of concern for the quality of schools at the new location with the incentive of being able to take a two-week, back-to-the-field assignment each year.
Table 308. Cross-tabulation of desire not to relocate because of concern for the quality of schools at the new location with the incentive of being able to return to the region.

Table 309. Cross-tabulation of desire not to relocate because of concern for the lack of amenities at the new location with the incentive of the agency providing housing for the duration of the assignment.

Table 310. Cross-tabulation of desire not to relocate because of concern for the lack of amenities at the new location with the incentive of the agency providing a housing allowance.

Table 311. Cross-tabulation of desire not to relocate because of concern for the lack of amenities at the new location with the incentive of the agency providing a cash relocation incentive.

Table 312. Cross-tabulation of desire not to relocate because of concern for the lack of amenities at the new location with the incentive of the agency providing assistance in locating housing.

Table 313. Cross-tabulation of desire not to relocate because of concern for the lack of amenities at the new location with the incentive of the agency providing assistance in finding a job for a significant other.

Table 314. Cross-tabulation of desire not to relocate because of concern for the lack of amenities at the new location with the incentive of being able to take a two-week, back-to-the-field assignment each year.

Table 315. Cross-tabulation of desire not to relocate because of concern for the lack of amenities at the new location with the incentive of being able to return to the region.

Table 316. Cross-tabulation of desire not to relocate because of concern for the lack of outdoor recreation opportunities at the new location with the incentive of the agency providing housing for the duration of the assignment.

Table 317. Cross-tabulation of desire not to relocate because of concern for the lack of outdoor recreation opportunities at the new location with the incentive of the agency providing a housing allowance.

Table 318. Cross-tabulation of desire not to relocate because of concern for the lack of outdoor recreation opportunities at the new location with the incentive of the agency providing a cash relocation incentive.
Table 319. Cross-tabulation of desire not to relocate because of concern for the lack of outdoor recreation opportunities at the new location with the incentive of the agency providing assistance in locating housing.

Table 320. Cross-tabulation of desire not to relocate because of concern for the lack of outdoor recreation opportunities at the new location with the incentive of the agency providing assistance in finding a job for a significant other.

Table 321. Cross-tabulation of desire not to relocate because of concern for the lack of outdoor recreation opportunities at the new location with the incentive of being able to take a two-week, back-to-the-field assignment each year.

Table 322. Cross-tabulation of desire not to relocate because of concern for the lack of outdoor recreation opportunities at the new location with the incentive of being able to return to the region.

Table 323. Cross-tabulation of desire not to relocate because of concern for assuming more administrative duties with the incentive of the agency providing housing for the duration of the assignment.

Table 324. Cross-tabulation of desire not to relocate because of concern for assuming more administrative duties with the incentive of the agency providing a housing allowance.

Table 325. Cross-tabulation of desire not to relocate because of concern for assuming more administrative duties with the incentive of the agency providing a cash relocation incentive.

Table 326. Cross-tabulation of desire not to relocate because of concern for assuming more administrative duties with the incentive of the agency providing assistance in locating housing.

Table 327. Cross-tabulation of desire not to relocate because of concern for assuming more administrative duties with the incentive of the agency providing assistance in finding a job for a significant other.

Table 328. Cross-tabulation of desire not to relocate because of concern for assuming more administrative duties with the incentive of being able to take a two-week, back-to-the-field assignment each year.

Table 329. Cross-tabulation of desire not to relocate because of concern for assuming more administrative duties with the incentive of being able to return to the region.
Table 330. Cross-tabulation of the incentive of the agency providing housing for the duration of the assignment with years of service with the NWRS.

Table 331. Cross-tabulation of the incentive of the agency providing a housing allowance with years of service with the NWRS.

Table 332. Cross-tabulation of the incentive of the agency providing a cash relocation incentive with years of service with the NWRS.

Table 333. Cross-tabulation of the incentive of the agency providing assistance in locating housing with years of service with the NWRS.

Table 334. Cross-tabulation of the incentive of the agency providing assistance in finding a job for a significant other with years of service with the NWRS.

Table 335. Cross-tabulation of the incentive of being able to take a two-week, back-to-the-field assignment each year with years of service with the NWRS.

Table 336. Cross-tabulation of the incentive being able to return to the region with years of service with the NWRS.

Table 337. Cross-tabulation of the incentive, the agency would provide housing for the duration of the assignment, with age groups.

Table 338. Cross-tabulation of the incentive, the agency would provide a housing allowance, with age groups.

Table 339. Cross-tabulation of the incentive, the agency would provide a cash relocation incentive, with age groups.

Table 340. Cross-tabulation of the incentive, the agency would provide assistance in locating housing, with age groups.

Table 341. Cross-tabulation of the incentive, the agency would provide assistance in finding a job for a significant other, with age groups.

Table 342. Cross-tabulation of the incentive, being able to take a two-week, back-to-the-field assignment each year, with age groups.

Table 343. Cross-tabulation of the incentive, being able to return to the region, with age groups.
Table 344. Cross-tabulation of the incentive, the agency would provide housing for the duration of the assignment, with GS-level pay grade.

Table 345. Cross-tabulation of the incentive, the agency would provide a housing allowance, with GS-level pay grade.

Table 346. Cross-tabulation of the incentive, the agency would provide a cash relocation incentive, with GS-level pay grade.

Table 347. Cross-tabulation of the incentive, the agency would provide assistance in locating housing, with GS-level pay grade.

Table 348. Cross-tabulation of the incentive, the agency would provide assistance in finding a job for a significant other, with GS-level pay grade.

Table 349. Cross-tabulation of the incentive, being able to take a two-week, back-to-the-field assignment each year, with GS-level pay grade.

Table 350. Cross-tabulation of the incentive, being able to return to the region, with GS-level pay grade.

Table 351. Cross-tabulation of the incentive, the agency would provide housing for the duration of the assignment, with highest level of job to which the employee aspires.

Table 352. Cross-tabulation of the incentive, the agency would provide a housing allowance, with highest level of job to which the employee aspires.

Table 353. Cross-tabulation of the incentive, the agency would provide a cash relocation incentive, with highest level of job to which the employee aspires.

Table 354. Cross-tabulation of the incentive, the agency would provide assistance in locating housing, with highest level of job to which the employee aspires.

Table 355. Cross-tabulation of the incentive, the agency would provide assistance in finding a job for a significant other, with highest level of job to which the employee aspires.

Table 356. Cross-tabulation of the incentive, being able to take a two-week, back-to-the-field assignment each year, with highest level of job to which the employee aspires.

Table 357. Cross-tabulation of the incentive, being able to return to the region, with highest level of job to which the employee aspires.
Table 358. Cross-tabulation of the incentive, the agency would provide assistance in finding a job for a significant other, with gender. 453

Table 359. Number and percent of employees who felt that short-term details of 1 to 3 months would or would not be effective in improving and encouraging leadership development. 453

Table 360. Number and percent of employees who felt that long-term details of 12 months would or would not be effective in improving and encouraging leadership development. 454

Table 361. Number and percent of employees who felt that establishing additional regional and national leadership positions at locations outside of major urban areas would or would not be effective in improving and encouraging leadership development. 454

Table 362. Cross-tabulation of short-term details of 1 to 3 months to improve and encourage leadership development with willingness to relocate to achieve the employee’s ultimate career goal. 455

Table 363. Cross-tabulation of long-term details of 12 months to improve and encourage leadership development with willingness to relocate to achieve the employee’s ultimate career goal. 456

Table 364. Cross-tabulation of establishing additional regional and national leadership positions at locations outside of major urban areas to improve and encourage leadership development with willingness to relocate to achieve the employee’s ultimate career goal. 457

Table 365. Cross-tabulation of long-term details of 12 months to improve and encourage leadership development with participation in the Advanced Leadership Development Program. 458

Table 366. Cross-tabulation of long-term details of 12 months to improve and encourage leadership development with application to the Advanced Leadership Development Program. 459

Table 367. Cross-tabulation of long-term details of 12 months to improve and encourage leadership development with participation in the Advanced Leadership Development Program. 460

Table 368. Cross-tabulation of establishing additional regional and national leadership positions at locations outside of major urban areas to improve and encourage leadership development with application to the Stepping Up to Leadership program. 461
Table 369. Cross-tabulation of short-term details of 1 to 3 months to improve and encourage leadership development with years of service in the NWRS.

Table 370. Cross-tabulation of long-term details of 12 months to improve and encourage leadership development with years of service in the NWRS.

Table 371. Cross-tabulation of establishing additional regional and national leadership positions at locations outside of major urban areas to improve and encourage leadership development with years of service in the NWRS.

Table 372. Cross-tabulation of short-term details of 1 to 3 months to improve and encourage leadership development with gender.

Table 373. Cross-tabulation of long-term details of 12 months to improve and encourage leadership development with gender.

Table 374. Cross-tabulation of establishing additional regional and national leadership positions at locations outside of major urban areas to improve and encourage leadership development with gender.

Table 375. Cross-tabulation of short-term details of 1 to 3 months to improve and encourage leadership development with occupational series.

Table 376. Cross-tabulation of long-term details of 12 months to improve and encourage leadership development with occupational series.

Table 377. Cross-tabulation of establishing additional regional and national leadership positions at locations outside of major urban areas to improve and encourage leadership development with occupational series.

Table 378. Cross-tabulation of short-term details of 1 to 3 months to improve and encourage leadership development with GS-level pay grade.

Table 379. Cross-tabulation of long-term details of 12 months to improve and encourage leadership development with GS-level pay grade.

Table 380. Cross-tabulation of establishing additional regional and national leadership positions at locations outside of major urban areas to improve and encourage leadership development with GS-level pay grade.

Table 381. Cross-tabulation of long-term details of 12 months to improve and encourage leadership development with highest level to which an employee aspires.
Table 382. Cross-tabulation of establishing additional regional and national leadership positions at locations outside of major urban areas to improve and encourage leadership development with highest level to which an employee aspires.

Table 383. Cross-tabulation of gender with years of service in the NWRS.

Table 384. Cross-tabulation of occupational series with years of service in the NWRS.

Table 385. Cross-tabulation of GS-level pay grade with years of service in the NWRS.

Table 386. Cross-tabulation of employee’s present work location with years of service with the NWRS.

Table 387. Cross-tabulation of highest level to which an employee aspires with years of service in the NWRS.

Table 388. Cross-tabulation of age groups with intent to spend the rest of the employee’s career with the NWRS.

Table 389. Cross-tabulation of gender with intent to spend the rest of the employee’s career with the NWRS.

Table 390. Cross-tabulation of occupational series with intent to spend the rest of the employee’s career with the NWRS.

Table 391. Cross-tabulation of GS-level pay grade with intent to spend the rest of the employee’s career with the NWRS.

Table 392. Cross-tabulation of present location of employees with intent to spend the rest of the employee’s career with the NWRS.

Table 393. Cross-tabulation of highest level to which an employee aspires with intent to spend the rest of the employee’s career with the NWRS.

Table 394. Cross-tabulation of region with intent to spend the rest of the employee’s career with the NWRS.

Table 395. Cross-tabulation of age groups with projected date of retirement.

Table 396. Cross-tabulation of occupational series with projected date of retirement.
Table 397. Cross tabulation of GS-level pay grade with projected date of retirement.

Table 398. Cross tabulation of present location of the employee with projected date of retirement.

Table 399. Cross tabulation of gender with projected date of retirement.

Table 400. Cross tabulation of region with projected date of retirement.