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The Agricultural Economics Profession at the Crossroads:
Survey Results of Faculty Salary, Employment, and Hiring Prospects

Mary A. Marchant and Lydia Zepeda

## DEPARTMENT OF AGRICULTURAL ECONOMICS

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August 1995

# The Agricultural Economics Profession at the Crossroads: <br> Survey Results of Faculty Salary, Employment, and Hiring Prospects 

Mary A. Marchant and Lydia Zepeda

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## The Agricultural Economics Profession at the Crossroads: Survey Results of Faculty Salary, Employment, and Hiring Prospects

The agricultural economics profession faces a crossroad, where universities struggle with declining budgets, and the Federal government downsizes. The issue of the future of our profession continues to be raised by a variety of interests--(1) the National Academy of Science study of the land grant colleges; (2) the Farm Foundation, AAEA, C-FARE, and NAAEA jointly sponsored leadership project, funded by the Kellogg Foundation, to assess how our Association should adjust to the changing needs of our clientele; (3) the CAST project, which examines these same issues for agriculture overall; (4) researchers, such as Just and Rausser; Huffman and Orazem; Schrimper; Skees; Brandt and Ahearn; and Paris; and (5) individual AAEA members, who are concerned about encouraging students to obtain graduate degrees in agricultural economics when few jobs may exist upon graduation. ${ }^{1}$

This principal paper seeks to lay the foundation for addressing these issues by presenting results of the recent AAEA Employment Services Committee Survey of agricultural economic departments (Appendix A) and comparing results to prior surveys, including
(1) Average salary, number, and age distribution of faculty per department by rank;
(2) Faculty recruitment, including the number of hires and starting salaries;
(3) Faculty attrition, including reasons for departure from universities;
(4) Graduate students, including student enrollments, number of degrees conferred and fields of specialization, student placement and starting salaries; and
(5) Employment of women and minority faculty by rank and year.

## Survey Data

Under the direction of the AAEA Board, the AAEA Employment Services Committee has conducted three surveys of all agricultural economics departments in the U.S. and Canada covering the years 1985/86-1993/94. The purpose of the original 1988 Survey, organized and conducted by Committee Chair Eugene Jones, was to establish baseline data, including student majors and degree recipients, student placement and entry level salaries, and faculty age, rank, and salary. The 1990 Survey, conducted by Committee Chair Don Ethridge, added questions about women, minorities, and international students (Ethridge). The 1993 Survey, conducted by Committee Chair Mary Marchant, added questions on faculty attrition, non-tenure track faculty positions, and the government sector.

1. AAEA $=$ American Agricultural Economics Association

C-FARE $=$ Council on Food, Agriculture, and Resource Economics
NAAEA $=$ National Association of Agricultural Administrators
CAST = Council of Agricultural Science and Technology

The survey questionnaire was sent to all academic departments by the AAEA Business Office. Results were aggregated to the regional level following the boundaries used by the AAEA--Northeast, North Central, South, and West. Response to all three surveys (1988, 1990, and 1993) was surprisingly similar with between 41 and 44 universities responding to each survey, and a common core of 23 universities responding to all three surveys, and an additional 9 universities responding to both the 1990 and 1993 surveys (see Ethridge; and Marchant and Kinyanjui for listing of schools).

## The Market for Academic Agricultural Economists

## Demand for Academic Agricultural Economists

To understand changes in the demand for academic agricultural economists, we examine changes in the survey data for the following: (1) average number and salaries of faculty; (2) faculty age distribution; (3) number and salaries of new faculty hired; (4) faculty attrition; and (5) women and minority faculty.

Average Number of Faculty. Table 1 and Appendix B identify the average number of faculty per department and respective faculty salaries by rank and region. The average number of faculty per department increased from 22 to 25 between 1985/86 and 1992/93. This increase occurred at the full professor level, from 11 to 14 , while the average number of associate and assistant professors per department remained constant at 6 and 5, respectively. Geographically, the largest increase in faculty size occurred in the South, with an increase from 20 to 27 faculty per department.

Faculty Salaries. Salaries increased over the survey time period, particularly at the full professor level. Average salaries of full professors climbed more than 20 percent, from $\$ 57,636$ in $1985 / 86$ to $\$ 69,343$ in 1992/93, while salaries of associate professors climbed nearly 18 percent, from $\$ 45,536$ to $\$ 53,704$, and for assistant professors, less than 15 percent, from $\$ 39,000$ to $\$ 44,759$. The consumer price index (CPI-U) over the same period increased by 31 percent (Economic Report of the President), indicating that real salaries declined.

Regionally, the Northeast consistently paid top faculty salaries throughout the survey period and for all ranks. At the full professor level, the Northeast paid 9.7 percent more than the overall average, in the North Central less than 1 percent more, in the South 3.3 percent less, and in the West 7.1 percent less during 1992/93. Regional differences diminished at the associate level, even more so at the assistant level; and regional rankings changed somewhat, with the West improving its standing.

Age Distribution of Faculty. Figure 1 compares the relative age of agricultural economics faculty for three points in time--1985, 1989, and 1993. Results show a change in the age composition with a 6 percent decline in the under 40 faculty, a 2 percent increase in both the 4150 and the 51-60 age groups, and a 3 percent increase in the over 61 group.

Number and Salaries of New Hires. Although the number of assistant professors remained constant throughout the survey period, these results do not necessarily imply good news for Ph.D. graduates entering the job market. Over the three-year period from 1990 to 1993, 107 new faculty were hired by agricultural economics departments; fewer than half (46) were filled by new Ph.D.s, with the majority of new positions going to experienced agricultural economists. The majority of hiring occurred in the North Central and Western regions, where of the 52 and 30 new faculty hired, only 19 and 12 were new Ph.D.s., respectively. The South and the Northeast hired 15 and 10 new faculty, respectively; however, in the South, 11 were new Ph.D.s compared to 4 in the Northeast. Interestingly, although the West hired twice as many total new faculty as the South, each hired about the same number of new Ph.D.s.

Starting salaries for new Ph.D.s climbed from $\$ 40,445$ in 1990/91 to nearly $\$ 44,700$ in 1992/93, with the greatest gains in the South and the North Central regions. The South (at $\$ 48,333$ ) paid the highest average faculty starting salary for new Ph.D.s in 1992/93, followed by the North Central region $(\$ 46,130)$, the West $(\$ 43,333)$, and the Northeast $(\$ 40,987)$, although top salaries varied regionally by year, e.g., the West paid highest salaries for both 1990/91 and 1991/92, and the range has grown, e.g., in 1990/91 the difference was only $\$ 1,300$ between high and low salaries.

Faculty Attrition. Of the 109 faculty that left agricultural economics departments between 1990/91 and 1992/93, 68 retired, 8 accepted other academic positions (e.g., administration), 9 accepted government jobs, 7 went to the private sector, 2 went to interests groups, and 15 left for other or unknown reasons. An additional 26 faculty ( 12 assistants, 6 associates, and 8 full professors) transferred to different universities. Broder, White, and Taylor examined the determinants of faculty retirements by agricultural economists.

Women and Minority Faculty. The overall proportion of women and minority faculty increased slightly between 1987/88 and 1992/93, with minority faculty increasing from 3 to 5 percent and women faculty maintaining at 6 percent of total faculty (Ethridge; Appendices A and B). For minority faculty, the greatest gains occurred in the South, at both the full and assistant professor levels, and in the West and Northeast at the associate professor level. The greatest gains for women occurred at the associate professor level, which increased overall from 4 to 9 percent between the 1990 and 1993 survey periods, as each region increased its proportion of women associate professors, led by the North Central region. At the assistant level, slight improvements occurred in virtually all regions, with an increase in women faculty from 15 to 16 percent between survey periods, led by the West in total numbers and other regions close behind. At the full professor level, there were only 12 women in 1992/93, while minority full professors totaled 23. Demographics differ for the two groups by rank--women faculty follow a pyramid structure, where numbers decrease with higher ranks, (Zepeda, Marchant, and Chang), while minority faculty follow an inverse pyramid structure, due to the influence of the 1890 schools (Ethridge).

To understand changes in agricultural economics graduate programs, we examine changes in (1) the number of students enrolled and degrees conferred, (2) fields of specialization, and (3) placement and starting salaries of graduates.

Average Number of Graduate Students Enrolled and Degree Recipients. At the graduate level, the number of Ph.D. students nearly doubled from an average of 14 to 27 per department, while the number of Masters students remained virtually constant, at 27 for 1985/86-1992/93 (figure $2 \mathrm{~b} / \mathrm{c}$ ). Regionally, Ph.D. programs in the North Central, South, and Northeast regions doubled. The North Central region had the largest number of graduate students (76), and the South the second largest number (56) in 1992/93. The number of Ph.D. degree recipients per department per year also doubled from 3 in 1985/86 to 6 in 1992/93, primarily due to the increase in degrees granted by the North Central region. The number of Masters degree recipients per department remained constant, at about 6 thesis degrees per year and 6 non-thesis options per year. These numbers illustrate that graduate programs grew, particularly due to growth stemming from international students.

International Students. The percent of international student degree recipients by degree level in 1992/93, was 4 percent at the undergraduate level, 34 percent at the Masters level, and 54 percent at the Ph.D. level (figure 3). This represents an increase over 1987/88 levels when international students at the Masters level comprised 30 percent and 45 percent at the Ph.D. level. Gempesaw and Elterich analyzed the impact of international students on the academic market and concluded that international students would fill 10 percent of academic positions.

Average Number of Undergraduate Students Enrolled. Undergraduate enrollments, which can justify faculty numbers as well as serve as a pool to obtain graduate students, peaked in academic year 1988/89 at an average of 215 per department. Regional differences exist throughout the survey period, 1985/86-1993/94 (figure 2a). While it is true that the total number of undergraduates per department fell since the 1988/89 peak, total enrollment for 1992/93 is virtually identical to the 1985/86 level, the first year of our survey. Relative to other departments in agricultural colleges, agricultural economics departments generally have more students, reflecting undergraduates' increasing interest in natural resources and agribusiness (Ballenger and Kouadio).

Fields of Specialization. Over one-fifth of Ph.D. graduates specialize in natural resources or environmental economics. Other popular fields include agricultural trade, finance, and production economics, with each area chosen by 11 percent of $\mathrm{Ph} . \mathrm{D}$. graduates. Student interest has grown for each of these fields over time, with the exception of production economics, holding steady at 11 percent. In contrast, interest in agricultural marketing fell from 16 percent to 7 percent, while interest in agricultural policy analysis rose to 9 percent in 1992/93. Farm management remained steady at 5-6 percent, and international development peaked in 1989/90 at nearly 19 percent, compared to its current 8 percent. Clearly, departments with strong fields in natural resource and environmental economics, agricultural trade, finance, and production economics will attract students.

Employment Prospects. The decline in government hiring, the rise in hiring faculty with experience rather than new Ph.D.s, and crossovers from economics explain the expanding applicant pool for academic jobs. As a result, it appears that soft money positions and post docs are becoming more prevalent in our profession; similar positions are common in other disciplines, where they serve to train students in publishing, grant writing and teaching.

Starting salaries generally increased over the sample period; however, the composition of employers changed (Appendices A and B). Among Ph.D. graduates, academia is the largest employer, employing one-third of all Ph.D. recipients, down from 41 percent in 1985/86. Academic salaries rose from $\$ 19,400$ in 1985/86, to about $\$ 40,000$ in 1992/93, as reported by departments whose students were placed. Foreign employment is the second largest source of jobs, around 30 percent. Interestingly, even as the percentage of international students rose, the percent of foreign employment fell. Government accounts for only 10 percent of Ph.D. employment, down from 22 percent in the mid-1980s.

Among Masters recipients, the private sector has employed around 20 percent and starting salaries increased from $\$ 17,000$ in 1985/86 to $\$ 26,400$ in 1992/93. Government, as an employer fell from 16 to 9 percent, while salaries nearly doubled from $\$ 15,000$ to $\$ 29,000$. Both academic job placement and salaries doubled--from 5 to 9 percent placement and $\$ 10,000$ to $\$ 20,000$ salary. About 20 percent of Masters students chose to continue their graduate studies, and a fifth to a quarter of Masters students were employed overseas.

## Concluding Remarks

Given the pervasive perception of budgetary cutbacks, it is surprising that we have not found downsizing of agricultural economics departments in terms of faculty numbers and limited hiring. Growth has been particularly high at the full professor level overall and regionally, in the South. Relative changes occurred in the composition of faculty and corresponding salaries. As a faculty, we are growing older. Correspondingly, the percent of assistant and associate professors declined, and full professors grew. Academic salaries rose in a similar manner, where the average salaries of full professors increased the most, however they did not keep pace with inflation.

Student numbers and composition also changed, as Ph.D. enrollments doubled in virtually all regions and undergraduate programs returned to their mid-1980 levels, after peaking in the late 1980s. The most notable change in the composition of graduate students was the increase in international students, to 54 percent of Ph.D. students. In regards to fields of specialization, the most popular fields include natural resources and environmental economics, international trade, finance, and production economics.

Hiring in academia remained fairly constant, while government hiring dramatically declined. However, of the academic hires, over one-half had experience. Clearly, as competition for faculty slots increases due to (1) the increasing number of Ph.D. students and (2) departments hiring experienced rather than new Ph.D.s to fill positions, new Ph.D.s must strengthen their resumes through other means, e.g., publications, teaching and extension experience, and grant
writing. To the extent that fresh Ph.D.s often lack this experience, post docs and soft money positions may be used as a strategy to gain experience. Future academics should also be aware that social science research funding is becoming scarcer (Norton, et al.), thereby increasing the relative importance of teaching and extension. New Ph.D.s can also exploit the niches of future demand; natural resources and agribusiness on the teaching side and community development, family and consumer issues on the extension side (Ballenger and Kouadio). For both prospective and current academics, it is crucial to continue tracking our profession; for it is impossible to know where we are going, if we do not know the path chosen at the crossroads.

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Table 1. Average Salary and Number of Faculty per Dept. By Rank, Year, and Region ${ }^{2}$

| Region/Year |  | Professor |  | Associate Professor |  | Assistant Professor |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | No. per Dept. | Avg. Salary | No. per Dept. | Avg. Salary | No. per Dept. | Avg. Salary |
| South | 1985/86 | 10 | \$57856 | 5 | \$47927 | 5 | \$39503 |
|  | 1986/87 | 10 | 54126 | 6 | 40195 | 5 | 36736 |
|  | 1987/88 | 10 | 55954 | 5 | 44268 | 4 | 37847 |
|  | 1988/89 | 12 | 58261 | 5 | 46610 | 4 | 38492 |
|  | 1989/90 | 12 | 60581 | 5 | 48224 | 5 | 39921 |
|  | 1990/91 | 15 | 62882 | 7 | 48955 | 6 | 41013 |
|  | 1991/92 | 16 | 64094 | 6 | 49905 | 5 | 42255 |
|  | 1992/93 | 16 | 67052 | 6 | 51271 | 5 | 43396 |
| West | 1985/86 | 10 | 60504 | 5 | 46916 | 3 | 41125 |
|  | 1986/87 | 11 | 53004 | 5 | 49537 | 3 | 42703 |
|  | 1987/88 | 10 | 62578 | 4 | 50569 | 4 | 42951 |
|  | 1988/89 | 12 | 67463 | 3 | 50122 | 5 | 41732 |
|  | 1989/90 | 12 | 70198 | 4 | 52720 | 4 | 43989 |
|  | 1990/91 | 11 | 57196 | 4 | 48333 | 4 | 40891 |
|  | 1991/92 | 12 | 60361 | 5 | 49610 | 3 | 42399 |
|  | 1992/93 | 12 | 64443 | 5 | 51647 | 3 | 44655 |
| North | 1985/86 | 15 | 57118 | 7 | 48198 | 6 | 40435 |
| Central | 1986/87 | 15 | 53810 | 7 | 44968 | 5 | 37573 |
|  | 1987/88 | 16 | 59370 | 7 | 45978 | 6 | 39810 |
|  | 1988/89 | 17 | 61830 | 8 | 47855 | 6 | 42631 |
|  | 1989/90 | 16 | 64886 | 8 | 50563 | 6 | 45715 |
|  | 1990/91 | 17 | 65771 | 8 | 50074 | 5 | 44094 |
|  | 1991/92 | 17 | 67613 | 8 | 51143 | 5 | 43981 |
|  | 1992/93 | 17 | 69779 | 8 | 54918 | 5 | 44162 |
| North | 1985/86 | 9 | 66684 | 6 | 41803 | 5 | 41066 |
| East | 1986/87 | 9 | 70176 | 6 | 44837 | 6 | 43303 |
|  | 1987/88 | 8 | 62243 | 6 | 49401 | 5 | 32753 |
|  | 1988/89 | 6 | 66427 | 6 | 52805 | 4 | 41658 |
|  | 1989/90 | 6 | 70942 | 6 | 58468 | 4 | 45515 |
|  | 1990/91 | 11 | 78120 | 6 | 63235 | 5 | 48012 |
|  | 1991/92 | 12 | 80443 | 6 | 64148 | 5 | 48542 |
|  | 1992/93 | 10 | 76098 | 6 | 56979 | 4 | 46824 |
| Total |  | 11 | \$57636 | 6 | \$45536 | 5 | \$39000 |
|  | 1986/87 | 11 | 57673 | 6 | 45074 | 5 | 39875 |
|  | 1987/88 | 11 | 57383 | 5 | 45545 | 5 | 37757 |
|  | 1988/89 | 12 | 61918 | 6 | 48503 | 5 | 40762 |
|  | 1989/90 | 12 | 64958 | 6 | 51233 | 5 | 43425 |
|  | 1990/91 | 14 | 65992 | 6 | 52649 | 5 | 43502 |
|  | 1991/92 | 14 | 68128 | 6 | 53702 | 5 | 44294 |
|  | 1992/93 | 14 | 69343 | 6 | 53704 | 5 | 44759 |



Figure 1 a/b. Faculty Age Distribution
B.8. 8TUDENT8 Enrolled Average Number per Ad. Econ. Dept.

M.8. 8TUDENTS Enrolled Average Number per Ag. Econ. Dept.


| Reman <br> - SOUTH <br> - wher <br> - month central <br> - MONTHEAET <br> - TOTAL |  |
| :---: | :---: |
|  |  |
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Ph. D. 8TUDENT8 Enrolled Average Number per Ag. Eoon. Dept.


REMON

- sourt
+ wart
- MONTH CENTMAL
- Montrinat
*-TOTAL

Figure $2 \mathrm{a} / \mathrm{b} / \mathrm{c}$. Student Enrollments--B.S./M.S./Ph.D.


Figure 3. International Students

APPENDIX A

# AMERICAN AGRICULTURAL ECONOMICS ASSOCIATION 

# AAEA Employment Services Committee 1993 Survey Results 

Mary A. Marchant, Committee Chair<br>Wangui Kinyanjui, Research Assistant<br>University of Kentucky

Revised August 1995

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## List of Tables and Graphs

Page
1993 AAEA Employment Services Committee Survey ..... 1
Universities That Responded to the 1993 AAEA Employment Services Survey ..... 2
Table 1 Average Number of Students Enrolled per Agricultural Economics Department, by Year and Region ..... 3
Table 2 Average Number of Degree Recipients per Agricultural Economics Department, by Year and Region ..... 4
Table 3 Distribution of Graduate Students Placed and Average Annual Salaries (dollars) by Type of Employer ..... 5
Table 4a Distribution of Ph.D. Graduates by Field of Specialization and Year ..... 6
Table 4b Stipends for Graduate Students by Region ..... 7
Table 5 Age Distribution of Faculty Members in Departments of Agricultural Economics by Region, 1985, 1989, and 1993 ..... 8
Table 6 Distribution by Faculty Rank of Agricultural Economists in Academic Institutions ..... 10
Table 7 Total New Faculty Hired and Starting Salaries During the Last Three Years (1990/91 to 1992/93) ..... 11
Table 8 Average Number of Faculty per Department and 12-Month Faculty Salaries in Departments of Agricultural Economics by Year and Region ..... 12
Table 9a Number of Women and Minority Faculty in Agricultural Economics Departments, by Rank and Year ..... 14
Table 9b Percent of Women and Minority Faculty in Agricultural Economics Departments, by Rank and Year ..... 15
Table 10 Faculty Attrition and Career Transitions (Totals) ..... 17
Graphics Economists Employed by ERS and FAS by Gender, Ethnicity, and Grade in 1993 ..... 19

## 1993 AAEA EMPLOYMENT SERVICES COMMITTEE SURVEY

With the approval of the AAEA Board, the Employment Services Committee undertook a survey of Agricultural Economics Departments and programs in the U.S., Canada and Puerto Rico in the late spring and summer of 1993. The survey covered the academic years 1990/91, 1991/92, and 1993/94. Two prior surveys were conducted in 1988 and 1990 and covered the years 1985/86, through 1989/90. The following tables were constructed from the three sets of survey data as an attempt to capture selected baseline data which are important to the functioning of the Employment Services Committee, as well as other AAEA committees, and potentially, the discipline in general.

The 1993 survey was similar to the form used in the previous surveys. Additional information on women, minorities, and international students was added in the 1988 survey and this information was continued in the 1993 survey. Information on faculty attrition and non-tenure track faculty as well as government employment of agricultural economists was added to the 1993 survey. Committee members Ed Rister, Lydia Zepeda, Emily McClain, Liana Neff and past Committee Chair Don Ethridge provided valuable feedback in developing the 1993 survey. The survey was sent to approximately 140 departments and responses were eventually obtained from 45 departments, where the response rate equalled the 1988 survey. Canadian departments (see attached map for the regional delineations) were included in the 1990 and 1993 surveys, but not the 1988 survey (Canadian salaries were converted to U.S. dollar equivalents).

We attempted to make information from the three surveys as compatible as possible. The 1993 surveys from Agricultural Economic Departments were collected by Julie Henderson of the AAEA Business Office. Government data were collected by Priscilla Joseph, Foreign Agricultural Service (FAS), and Emily McClain and Liana Neff, Economic Research Service (ERS). Supplemental government data were provided by Mary Ahearn using the Survey of Doctorate Recipients compiled by the National Research Council (only a portion of which is presented here). Surveys and data were forwarded to Mary A. Marchant at the University of Kentucky. Data were tabulated by Research Assistant Wangui Kinyanjui using QuatroPro spreadsheets. Tables were typed by Staff Assistants Rita Parsons and Kristin Rehrman. The map was developed by Darryl (Doc) Cottle, and graphics for the government sector were prepared by Research Assistant Munirathinam Ravichandran.

Gratitude is expressed to the department chairs, heads, and graduate student secretaries who participated in the 1993 AAEA Employment Services Committee Survey.

Mary A. Marchant 1993 AAEA Employment Services<br>Committee Chair<br>Lexington, Kentucky


North Dakota Univ.*
South Dakota Univ.*
Univ. of Manitoba*
Michigan State Univ.*
Kansas State Univ.*
Univ. of Ilinois
Univ. of Minnesota*
Purdue Univ.*
Univ. of Nebraska*
Iowa State Univ.*
Ohio State Univ.*
Univ. of Wisconsin, Madison*

Univ. of Wyoming
Univ. of Alberta*
Univ. of Arizona*
Univ. of Idaho
Oregon State Univ.*
Montana State Univ.*
Washington State Univ.*
Utah State Univ.
Colorado State Univ.*
New Mexico State Univ.
Univ. of California, Davis*
Univ. of Nevada
South
Univ. of New Hampshire
Texas Tech Univ.*
Texas A \& M Univ.*
Univ. of Vermont*
North Carolina State Univ.*
Southwest Texas State Univ.
Cornell Univ.*
Univ. of Arkansas*
Univ. of Rhode Island
Oklahoma State Univ.*
Auburn Univ.
Virginia Tech (VPI)
Univ. of Florida*
Mississippi State Univ.*
Univ. of Kentucky*
Univ. of Georgia*
Univ. of Puerto Rico*
Southern A\&M Univ.*

[^0][^1]Table 1. Average Number of Students Enrolled per Agricultural Economics Department, by Year and Region.

| Region Year | Program |  |  |
| :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { B.S. } \\ & \text { No. per } \\ & \text { Dept. } \end{aligned}$ | $\begin{aligned} & \text { Masters } \\ & \text { No. per } \\ & \text { Dept. } \end{aligned}$ | $\begin{aligned} & \frac{\text { Ph.D. }}{\text { No. per }} \\ & \text { Dept. } \end{aligned}$ |
| South |  |  |  |
| 1985/86 | 168 | 29 | 13 |
| 1986/87 | 157 | 29 | 13 |
| 1987/88 | 146 | 28 | 15 |
| 1988/89 | 173 | 27 | 16 |
| 1989/90 | 170 | 24 | 17 |
| 1990/91 | 176 | 29 | 23 |
| 1991/92 | 201 | 32 | 25 |
| 1992/93 | 194 | 29 | 27 |
| West |  |  |  |
| 1985/86 | 106 | 20 | 18 |
| 1986/87 | 96 | 18 | 17 |
| 1987/88 | 153 | 23 | 22 |
| 1988/89 | 184 | 34 | 32 |
| 1989/90 | 182 | 29 | 32 |
| 1990/91 | 137 | 22 | 19 |
| 1991/92 | 125 | 22 | 18 |
| 1992/93 | 120 | 22 | 18 |
| North Central |  |  |  |
| 1985/86 | 292 | 27 | 16 |
| 1986/87 | 255 | 27 | 20 |
| 1987/88 | 217 | 36 | 29 |
| 1988/89 | 232 | 36 | 35 |
| 1989/90 | 225 | 37 | 34 |
| 1990/91 | 264 | 34 | 41 |
| 1991/92 | 286 | 36 | 41 |
| 1992/93 | 274 | 35 | 41 |
| Northeast |  |  |  |
| 1985/86 | 230 | 18 | 9 |
| 1986/87 | 232 | 16 | 13 |
| 1987/88 | 316 | 16 | 13 |
| 1988/89 | 308 | 17 | 10 |
| 1989/90 | 302 | 14 | 9 |
| 1990/91 | 144 | 23 | 25 |
| 1991/92 | 123 | 19 | 22 |
| 1992/93 | 99 | 20 | 20 |
| Total |  |  |  |
| 1985/86 | 185 | 26 | 14 |
| 1986/87 | 172 | 25 | 16 |
| 1987/88 | 190 | 27 | 19 |
| 1988/89 | 215 | 29 | 23 |
| 1989/90 | 211 | 27 | 23 |
| 1990/91 | 180 | 27 | 27 |
| 1991/92 | 184 | 27 | 27 |
| 1992/93 | 172 | 27 | 27 |

Table 2. Average Number of Degree Reciplents per Agricultural Economics Department, by Year and Region.


Table 3. Distribution of Graduate Students Placed and Average Annual Salaries (dollars) by Type of Employer

| Degree and Type of Employer | Year |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1985/86 |  | 1986/87. |  | 1987188 |  | 1988/89 |  | 1989/90 |  | 1990/91 |  | 1991/92 |  | 1992/93 |  |
|  | \% <br> Placed | Avg. <br> Salary | $\begin{gathered} \% \\ \text { Placed } \end{gathered}$ | Avg. <br> Salary | $\stackrel{\%}{\text { Placed }}$ | Avg. <br> Salary | $\begin{gathered} \% \\ \text { Placed } \end{gathered}$ | Avg. <br> Salary | $\begin{gathered} \% \\ \text { Placed } \end{gathered}$ | Avg. <br> Salary | \% <br> Placed | Avg. Salary | $\begin{gathered} \% \\ \text { Placed } \end{gathered}$ | Avg. Salary | $\begin{aligned} & \% \\ & \text { Placed } \end{aligned}$ | Avg. Salary |
| Masters |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Private industry | 21 | \$17071 | 36 | \$23000 | 23 | \$20839 | 26 | \$25350 | 18 | \$21458 | 17 | \$23679 | 21 | \$24938 | 20 | \$26438 |
| Government | 16 | 15091 | 26 | 16279 | 20 | 17700 | 17 | 22063 | 20 | 16750 | 17 | 26274 | 12 | 27000 | 9 | 29417 |
| Academic | 5 | 9889 | 7 | 13339 | 9 | 17056 | 9 | 21721 |  | 17308 | 9 | 24752 | 8 | 25708 | 9 | 20343 |
| Graduate school | 19 | -- | 23 | -- | 15 | .- | 14 | -- | 19 | -- | 18 | 0 | 25 | -- | 20 | .- |
| Public interest groups | na | -- | na | -- | 1 | .. | 2 | - | 1 | -- | 0 | 0 | 1 | - | 1 | -- |
| Other/unknown | 29 | -. | 29 | -. | 14 | - | 13 | - | 16 | - | 14 | 0 | 12 | - | 20 | -- |
| Foreign Employment |  |  |  |  |  |  |  |  |  |  | 25 | 0 | 21 | - | 21 | - |
| Ph.D. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Private industry | 9 | 4375 | 12 | 6000 | 10 | 20000 | 10 | 23714 | 8 | 29000 | na | na | na | -- | na | -. |
| Government | 22 | 11500 | 25 | 13125 | 19 | 22750 | 21 | 23208 | 24 | 23839 | 16 | na | 13 | 42000 | 10 | .. |
| Academic | 41 | 19357 | 37 | 21900 | 47 | 30093 | 49 | 32310 | 38 | 34183 | 39 | 36216 | 33 | 33564 | 33 | 39673 |
| Graduate school | na | .- | na | -. | 0 | - | 1 | -- | 5 | .- | 6 | na | 10 | - | 6 | .- |
| Public interest groups | na | -. | na | - | . 7 | -- | 3 | 1 | 1 | - | 3 | na | 6 | -- | 2 | - |
| Other/unknown | 12 | - | 13 | - | 10 | - | 5 | -- | 16 | -- | 5 | na | 6 | - | 22 | -- |
| Foreign Employment |  |  |  |  |  |  |  |  |  |  | 31 | na | 32 | -- | 27 | - |

## $n / a=n o t$ available

Table 4a. Distribution of Ph.D. Graduates by Field of Specialization and Year.

| Field of Specialization | Year |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1985/86 | $1986 / 87$ | 1987/88 | 1988/89 | 1989/90 | 1990/91 | 199192 | $1992 / 93$ |
|  | Percent |  |  |  |  |  |  |  |
| Farm Management | 6.0 | 5.3 | 2.2 | 6.5 | 7.7 | 7 | 2 | 5 |
| Production Economics | 11.1 | 10.6 | 11.8 | 8.9 | 11.8 | 16 | 8 | 11 |
| Agricultural Marketing | 16.2 | 16.0 | 16.2 | 17.8 | 15.1 | 16 | 18 | 7 |
| Agribusiness Management | 0.0 | 3.2 | 0.0 | 0.7 | 0.8 | 0 | 2 | 0 |
| Agricultural Price, Income Policy, Analysis | 15.4 | 11.7 | 11.0 | 11.6 | 16.0 | 4 | 2 | 7 |
| International Development | 6.9 | 7.5 | 16.9 | 15.1 | 18.5 | 7 | 15 | 8 |
| Agricultural Trade and Finance | 5.3 | 7.5 | 10.3 | 14.4 | 10.1 | 7 | 13 | 11 |
| Natural Resource, Environmental Economics | 17.1 | 14.9 | 9.6 | 13.0 | 15.1 | 17 | 14 | 21 |
| Community Resource Economics | 2.6 | 0.0 | 1.5 | 2.7 | 2.5 | 5 | 3 | 2 |
| Consumer and Human Resource | 1.7 | 0.0 | 5.9 | 4.1 | 4.2 | 4 | 3 | 2 |
| Research Methods, Econometrics, Statistics | 1.7 | 4.3 | 3.7 | 4.8 | 5.0 | 4 | 4 | 5 |
| Agricultural Policy Analysis |  |  |  |  |  | 6 | 5 | 9 |
| Agricultural Finance | -- | -- | -- | -- | -- | 7 | 10 | 12 |

Table 4b. Stipends for Graduate Students by Region (U.S. dollars)

| Year Region | Post Adv | $\begin{gathered} \mathrm{PhD} \\ \mathrm{RA} \end{gathered}$ | $\begin{gathered} \mathrm{PhD} \\ \mathrm{TA} \end{gathered}$ | $\begin{aligned} & \text { MS } \\ & \text { RA } \end{aligned}$ | $\begin{gathered} \text { MS } \\ \text { TA } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Northeast |  |  |  |  |  |
| 1990/91 | \$12,360 | \$12,096 | \$12,096 | \$10,453 | \$10,143 |
| 1991/92 | 12,360 | 12,481 | 12,481 | 10,851 | 10,684 |
| 1992/93 | 12,360 | 12,725 | 12,725 | 11,521 | 10,937 |

North Central

| $1990 / 91$ | 11,398 | 11,708 | 11,052 | 10,350 | 10,415 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $1991 / 92$ | 12,006 | 12,119 | 11,551 | 10,792 | 10,905 |
| $1992 / 93$ | 12,554 | 12,773 | 12,182 | 11,029 | 11,083 |

West

| $1990 / 91$ | 9,000 | 10,245 | 9,887 | 9,245 | 9,138 |
| :--- | ---: | ---: | ---: | ---: | ---: |
| $1991 / 92$ | 9,000 | 10,505 | 10,186 | 9,464 | 9,307 |
| $1992 / 93$ | 13,641 | 10,699 | 10,413 | 9,594 | 9,477 |

South

| $1990 / 91$ | 11,221 | 10,878 | 9,950 | 10,836 | 8,798 |
| ---: | ---: | ---: | ---: | ---: | ---: |
| $1991 / 92$ | 11,852 | 11,236 | 11,008 | 10,956 | 8,798 |
| $1992 / 93$ | 12,307 | 11,605 | 11,453 | NA | 8,800 |

Average

| $1990 / 91$ | $\$ 10,995$ | $\$ 11,232$ | $\$ 10,746$ | $\$ 10,221$ | $\$ 9,623$ |
| ---: | ---: | ---: | ---: | ---: | ---: |
| $1991 / 92$ | 11,304 | 11,585 | 11,306 | 10,516 | 9,924 |
| $1992 / 93$ | 12,715 | 11,950 | 11,693 | 10,821 | 10,074 |

NA = Not available
Post Adv = Post-Advanced to candidacy, i.e., students who are at the dissertation stage

Table 5. Age Distribution of Faculty Members in Departments of Agricultural Economics by Region, 1985, 1989, and 1993.

| Age |  | Regions |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | South | West | North Central | Northeast | Total |
|  |  |  |  | Percent |  |  |
| 30 and under |  |  |  |  |  |  |
|  | 1985 | 4 | 3 | 3 | 0 | 3 |
|  | 1989 | 2 | 3 | 4 | 1 | 3 |
|  | 1993 | 3 | 2 | 0 | 1 | 2 |
| $31-35$ |  |  |  |  |  |  |
|  | 1985 | 18 | 11. | 13 | 14 | 14 |
|  | 1989 | 13 | 11 | 11 | 18 | 12 |
|  | 1993 | 8 | 9 | 11 | 10 | 10 |
| 36-40 |  |  |  |  |  |  |
|  | 1985 | 19 | 14 | 14 | 25 | 17 |
|  | 1989 | 21 | 13 | 14 | 14 | 17 |
|  | 1993 | 16 | 15 | 14 | 16 | 15 |
| 41-45 |  |  |  |  |  |  |
|  | 1985 | 17 | 22 | 18 | 10 | 18 |
|  | 1989 | 18 | 18 | 14 | 17 | 16 |
|  | 1993 | 19 | 19 | 15 | 19 | 18 |
| 46-50 |  |  |  |  |  |  |
|  | 1985 | 15 | 19 | 15 | 17 | 16 |
|  | 1989 | 18 | 21 | 18 | 15 | 18 |
|  | 1993 | 16 | 19 | 17 | 18 | 18 |
| continued |  |  |  |  |  |  |

Table 5. Continued

| Age | Regions |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | South | West | North Central | Northeast | Total |
|  | Percent |  |  |  |  |
| 51-55 |  |  |  |  |  |
| 1985 | 12 | 14 | 16 | 9 | 13 |
| 1989 | 13 | 17 | 12 | 9 | 13 |
| 1993 | 17 | 17 | 18 | 16 | 17 |
| 56-60 |  |  |  |  |  |
| 1985 | 10 | 9 | 13 | 20 | 12 |
| 1989 | 10 | 9 | 14 | 14 | 12 |
| 1993 | 13 | 10 | 12 | 5 | 10 |
| 61-65 |  |  |  |  |  |
| 1985 | 4 | 8 | 7 | 4 | 6 |
| 1989 | 5 | 6 | 9 | 10 | 7 |
| $1993$ | 6 | 7 | 9 | 15 | 9 |
| 66 and over |  |  |  |  |  |
| 1985 | 2 | 0 | 2 | 0 | 2 |
| 1989 | 1 | 2 | 3 | 1 | 2 |
| 1993 | 2 | 2 | 4 | 0 | 2 |

Table 6. Distribution by Faculty Rank of Agricultural Economists in Academic Institutions

| Region/Year | Professor | Associate Professor | Assistant Professor |
| :---: | :---: | :---: | :---: |
|  |  | Percent |  |
| South |  |  |  |
| 1985/86 | 49 | 26 | 25 |
| 1986/87 | 49 | 28 | 23 |
| 1987/88 | 53 | 25 | 22 |
| 1988/89 | 57 | 24 | 19 |
| 1989/90 | 56 | 24 | 20 |
| 1990/91 | 58 | 25 | 17 |
| 1991/92 | 60 | 23 | 17 |
| 1992/93 | 62 | 23 | 15 |
| West |  |  |  |
| 1985/86 | 52 | 31 | 17 |
| 1986/87 | 55 | 29 | 16 |
| 1987/88 | 53 | 26 | 22 |
| 1988/89 | 61 | 18 | 22 |
| 1989/90 | 62 | 18 | 20 |
| 1990/91 | 61 | 20 | 20 |
| 1991/92 | 60 | 24 | 17 |
| 1992/93 | 60 | 22 | 17 |
| North Central |  |  |  |
| 1985/86 | 54 | 26 | 20 |
| 1986/87 | 54 | 26 | 20 |
| 1987/88 | 56 | 22 | 22 |
| 1988/89 | 55 | 25 | 20 |
| 1989/90 | 54 | 27 | 19 |
| 1990/91 | 57 | 25 | 18 |
| 1991/92 | 57 | 26 | 17 |
| 1992/93 | 57 | 28 | 15 |
| Northeast |  |  |  |
| 1985/86 | 47 | 33 | 20 |
| 1986/87 | 47 | 32 | 21 |
| 1987/88 | 44 | 35 | 22 |
| 1988/89 | 37 | 38 | 25 |
| 1989/90 | 38 | 38 | 24 |
| 1990/91 | 45 | 29 | 26 |
| 1991/92 | 45 | 32 | 23 |
| 1992/93 | 45 | 34 | 21 |
| Total |  |  |  |
| 1985/86 | 51 | 28 | 21 |
| 1986/87 | 51 | 28 | 21 |
| 1987/88 | 53 | 25 | 22 |
| 1988/89 | 54 | 25 | 20 |
| 1989/90 | 54 | 26 | 20 |
| 1990/91 | 55 | 25 | 21 |
| 1991/92 | 55 | 27 | 19 |
| 1992/93 | 56 | 27 | 17 |

Table 7. Total New Faculty Hired and Starting Salaries
During the Last Three Years

| North East | North Central | West | South | Averages |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| New Ph.D's | 4 | 19 | 12 | 11 | 46 |
| Total New Faculty | 10 | 52 | 30 | 15 | 107 |
| Starting Salaries for New Ph.D's |  |  |  |  |  |
| $1990 / 91$ | NA | $\$ 40,044$ | $\$ 41,292$ | $\$ 40,000$ | $\$ 40,445$ |
| $1991 / 92$ | 43,008 | 42,469 | 44,183 | 43,994 | 43,414 |
| $1992 / 93$ | 40,987 | 46,130 | 43,333 | 48,333 | 44,696 |

NA = Not available

Table 8. Average Number of Faculty per Department and 12-Month Faculty Salaries (U.S. dollars) in Departments of Agricultural Economics by Year and Region

| Region/Year | Professor |  | Associate_Professor |  | Assistant Professor |  | All Ranks |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. per Dept. | Avg Salary | No. per Dept. | Avg. Salary | No. per Dept. | Avg. Salary | No. per Dept. | Avg. Salary |
| South |  |  |  |  |  |  |  |  |
| 1985/86 | 10 | \$57856 | 5 | \$47927 | 5 | \$39503 | 20 | \$48428 |
| 1986/87 | 10 | 54126 | 6 | 40195 | 5 | 36736 | 21 | 43686 |
| $1987 / 88$ | 10 | 55954 | 5 | 44268 | 4 | 37847 | 19 | 46023 |
| 1988/89 | 12 | 58261 | 5 | 46610 | 4 | 38492 | 21 | 47788 |
| 1989/90 | 12 | 60581 | 5 | 48224 | 5 | 39921 | 22 | 49576 |
| 1990/91 | 15 | 62882 | 7 | 48955 | 6 | 41013 | 28 | 50950 |
| 1991/92 | 16 | 64094 | 6 | 49905 | 5 | 42255 | 27 | 52085 |
| 1992/93 | 16 | 67052 | 6 | 51271 | 5 | 43396 | 27 | 53906 |
| West |  |  |  |  |  |  |  |  |
| 1985/86 | 10 | 60504 | 5 | 46916 | 3 | 41125 | 18 | 49516 |
| 1986/87 | 11 | 53004 | 5 | 49537 | 3 | 42703 | 19 | 48415 |
| 1987/88 | 10 | 62578 | 4 | 50569 | 4 | 42951 | 18 | 52032 |
| 1988/89 | 12 | 67463 | 3 | 50122 | 5 | 41732 | 20 | 53105 |
| 1989/90 | 12 | 70198 | 4 | 52720 | 4 | 43989 | 20 | 55635 |
| 1990/91 | 11 | 57196 | 4 | 47183 | 4 | 40143 | 19 | 48174 |
| 1991/92 | 12 | 60361 | 5 | 49321 | 3 | 41915 | 20 | 50532 |
| 1992/93 | 12 | 63136 | 4 | 50704 | 3 | 44100 | 19 | 52647 |
| North Central |  |  |  |  |  |  |  |  |
| 1985/86 | 15 | 57118 | 7 | 48198 | 6 | 40435 | 28 | 48583 |
| 1986/87 | 15 | 53810 | 7 | 44968 | 5 | 37573 | 27 | 45450 |
| 1987/88 | 16 | 59370 | 7 | 45978 | 6 | 39810 | 29 | 48387 |
| 1988/89 | 17 | 61830 | 8 | 47855 | 6 | 42631 | 31 | 50771 |
| 1989/90 | 16 | 64886 | 8 | 50563 | 6 | 45715 | 30 | 53721 |
| 1990/91 | 17 | 65771 | 8 | 50074 | 5 | 44094 | 30 | 53313 |
| 1991/92 | 17 | 67613 | 8 | 51143 | 5 | 43981 | 30 | 54246 |
| 1992/93 | 17 | 54918 | 8 | 54918 | 5 | 44162 | 30 | 56286 |
|  |  |  |  | continued |  |  |  |  |

Table 8. continued

| Region/Year | Professor |  | Associate_Professor |  | Assistant Professor |  | All Ranks |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. per Dept. | Avg. Salary | No. per Dept. | Avg. <br> Salary | No. per Dept. | Avg. Salary | No. per Dept. | Avg. Salary |
| Northeast |  |  |  |  |  |  |  |  |
| 1985/86 | 9 | 66684 | 6 | 41803 | 5 | 41066 | 20 | 49852 |
| 1986/87 | 9 | 70176 | 6 | 44837 | 6 | 43303 | 21 | 52772 |
| 1987/88 | 8 | 62243 | 6 | 49401 | 5 | 32753 | 19 | 48132 |
| 1988/89 | 6 | 66427 | 6 | 52805 | 4 | 41658 | 16 | 53631 |
| 1989/90 | 6 | 70942 | 6 | 58468 | 4 | 45515 | 16 | 58308 |
| 1990/91 | 11 | 78120 | 6 | 63235 | 5 | 48012 | 22 | 63122 |
| 1991/92 | 12 | 80443 | 6 , | 64148 | 5 | 48542 | 23 | 64378 |
| 1992/93 | 10 | 76098 | 6 | 56979 | 4 | 46824 | 20 | 59967 |
| Total |  |  |  |  |  |  |  |  |
| 1985/86 | 11 | \$57636 | 6 | \$45536 | 5 | \$39000 | 22 | \$47390 |
| 1986/87 | 11 | 57673 | 6 | 45074 | 5 | 39875 | 22 | 47540 |
| 1987/88 | 11 | 57383 | 5 | 45545 | 5 | 37757 | 21 | 46895 |
| 1988/89 | 12 | 61918 | 6 | 48503 | 5 | 40762 | 23 | 50394 |
| 1989/90 | 12 | 64958 | 6 | 51233 | 5 | 43425 | 23 | 53205 |
| 1990/91 | 14 | 65805 | 6 | 52649 | 5 | 43502 | 25 | 54048 |
| 1991/92 | 14 | 67919 | 6 | 53702 | 5 | 44294 | 25 | 55375 |
| 1992/93 | 14 | 68725 | 6 | 53704 | 5 | 44759 | 25 | 55935 |

Table 9a. NUMBER of Women and Minority Faculty in Agricultural Economics Departments, by Rank and Year.

|  | Region |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | South |  | West |  | North Central |  | Northeast |  | Totals |  |
|  | Women | Minorities | Women | Minorities | Women | Minorities | Women | Minorities | (All Women | egions) <br> Minorities |
| Actual Numbers |  |  |  |  |  |  |  |  |  |  |
| Professor |  |  |  |  |  |  |  |  |  |  |
| 1990/91 | 1 | 15 | 1 | 5 | 5 | 3 | 1 | 0 | 8 | 22 |
| 1991/92 | 2 | 15 | 2 | 6 | 5 | 2 | 1 | 0 | 10 | 22 |
| 1992/93 | 2 | 16 | 3 | 5 | 6 | 2 | 1 | 0 | 12 | 23 |
| Associate Professor |  |  |  |  |  |  |  |  |  |  |
| 1990/91 | 5 | 5 | 1 | 0 | 10 | 1 | 2 | 2 | 18 | 8 |
| 1991/92 | 5 | 5 | 4 | 2 | 12 | 2 | 2 | 3 | 22 | 12 |
| 1992/93 | 6 | 3 | 3 | 2 | 10 | 2 | 3 | 4 | 22 | 11 |
| Assistant Professor |  |  |  |  |  |  |  |  |  |  |
| 1990/91 | 7 | 4 | 11 | 2 | 7 | 3 | 4 | 2 | 26 | 11 |
| 1991/92 | 6 | 4 | 10 | 0 | 9 | 4 | 5 | 2 | 27 | 10 |
| 1992/93 | 5 | 6 | 10 | 0 | 7 | 4 | 6 | 1 | 24 | 11 |
|  |  |  |  |  |  |  |  |  |  |  |
| 1990/91 | 13 | 24 | 13 | 6 | 22 | 7 | 7 | 4 | 52 | 41 |
| 1991/92 | 13 | 24 | 16 | 7 | 26 | 8 | 8 | 5 | 59 | 44 |
| 1992/93 | 13 | 25 | 16 | 7 | 23 | 8 | 10 | 5 | 58 | 45 |
| Non-Tenure Track Faculty (w/Ph.D.) |  |  |  |  |  |  |  |  |  |  |
| 1990/91 | 2 | 0 | 2 | 2 | 1 | 3 | 2 | 0 | 7 | 5 |
| 1991/92 | 2 | 0 | 2 | 1 | 0 | 2 | 2 | 0 | 6 | 3 |
| 1992/93 | 3 | 0 | 3 | 2 | 0 | 3 | 2 | 1 | 8 | 6 |

Table 9b. PERCENT of Women and Minority Faculty in Agricultural Economics Departments, by Rank and Year.


Table 9b. continued


* Percentages are calculated by [(Actual numbers from Table 9a)/(Total number of Faculty from Table 6)]

Table 10. Faculty Attrition and Career Transitions (Totals)

| Region | Male |  |  | Female |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Asst. <br> Prof | Assoc. Prof. | Full Prof. | Asst. <br> Prof. | Assoc. Prof. | Full Prof. |
| Northeast <br> Retirement |  | 2 | 4 |  |  |  |
| Non-Ag Econ Univ. Post, (Admin.) |  |  |  |  |  |  |
| Position at other University |  | 2 |  |  |  |  |
| Government employment | 1 |  |  |  |  |  |
| Private sector employment | 1 |  |  |  |  |  |
| Employment with interest group |  |  |  |  |  |  |
| Other | 2 | 1 |  |  |  |  |
| Unknown |  |  |  |  |  |  |
| North Central <br> Retirement |  | 6 | 21 |  |  |  |
| Non-Ag Econ Univ. Post, (Admin.) | 1 |  | 3 |  |  |  |
| Position at other University | 3 | 2 | 1 |  |  |  |
| Government employment |  |  |  | 1 | 1 |  |
| Private sector employment | 2 | 1 |  | 1 |  | 1 |
| Employment with interest group |  |  |  |  |  |  |
| Other |  |  | 1 |  |  |  |
| Unknown |  |  | 2 |  |  |  |
| West <br> Retirement | 1 | 7 | 14 |  |  |  |
| Non-Ag Econ Univ. Post, (Admin.) | 1 |  | 1 |  |  |  |
| Position at other University | 6 | 1 | 4 |  |  | 1 |
| Government employment | 3 | 2 |  |  |  |  |
| Private sector employment |  |  |  |  |  |  |
| Employment with interest group |  |  |  |  |  |  |
| Other | 1 |  | 4 | 1 |  |  |
| Unknown | 1 |  |  |  |  |  |


| Region | Male |  |  | Female |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Asst. <br> Prof | Assoc. <br> Prof. | Full <br> Prof. | Asst. <br> Prof. | Assoc. <br> Prof. | Full <br> Prof. |
| South <br> Retirement |  | 2 | 11 |  |  |  |
| Non-Ag Econ Univ. Post, (Admin.) |  |  | 2 |  |  |  |
| Position at other University | 3 | 1 | 2 |  |  |  |
| Government employment | 1 |  |  |  |  |  |
| Private sector employment |  |  | 1 |  |  |  |
| Employment with interest group | 1 |  |  | 1 |  |  |
| Other |  |  |  | 2 |  |  |
| Unknown |  |  |  |  |  |  |
| Total <br> Retirement | 1 | 17 | 50 |  |  |  |
| Non-Ag Econ Univ. Post, (Admin.) | 2 |  | 6 |  |  |  |
| Position at other University | 12 | 6 | 7 |  |  | 1 |
| Government employment | 5 | 2 |  | 1 | 1 |  |
| Private sector employment | -3 | 1 | 1 | 1 |  | 1 |
| Employment with interest group | 1 |  |  | 1 |  |  |
| Other | 3 | 1 | 5 | 3 |  |  |
| Unknown | 1 |  | 2 |  |  |  |

PROFESSIONAL 110-ECONOMISTS EMPLOYED IN ERS BY GENDER IN 1993 (Total=441)


[^2]PROFESSIONAL 110-ECONOMISTS EMPLOYED IN FAS BY GENDER IN 1993 (Total=115)


[^3]PROFESSIONAL 110-ECONOMISTS EMPLOYED IN ERS BY ETHNICITY IN 1993 (Total=441)


Source: Economic Research Service

PROFESSIONAL 110-ECONOMISTS EMPLOYED IN FAS BY ETHNICTY IN 1993 (Total=115)


## PROFESSIONAL 110-ECONOMISTS EMPLOYED

 IN ERS BY GRADE AND GENDER IN 1993

Source: Economic Research Servcice


Source: U.S. Department of Agriculture

APPENDIX B

## Average Number of FACULTY

 Ag. Econ. Dept. by Year

Average Salaries of FACULTY Ag. Econ. Dept. by Year


NUMBER of Women FULL PROFESSORS in Ag. Econ. Depts. by Year


NUMBER of Women ASSISTANT PROFESSORS in Ag. Econ. Depts. by Year


NUMBER of Women ASSOCIATE PROFESSORS in Ag. Econ. Depts. by Year


TOTAL NUMBER of WOMEN FACULTY in Ag. Econ. Depts. (ALL RANKS) by Year


## Placement of M.S. GRADUATES

 by Type of Employer

## Placement of Ph.D. STUDENTS by Type of Employer





[^0]:    * = Departments that also responded to the 1988 Survey.

[^1]:    Universities that responded to the 1988 Survey but not the 1993 survey included: (North Central), Univ. of Missouri-Columbia; (Northeast) West Virginia Univ., Rutgers, Univ. of Delaware; (West) Univ. of Calif.-Berkeley, Calif. State Univ.-Chico, Brigham Young Univ., and (South) Clemson Univ., Univ. of Tennessee, Prairie View A\&M, and S.C. State.

[^2]:    Source: Economic Research Service

[^3]:    Source: Foreign Agricultural Service

