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**From Farm Management to Agricultural and Applied Economics: The  
Expansion of a Professional Society as Seen through a Census of Its  
Dissertations from 1951 to 2005**

**– Supplemental Tables –**

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Abstract: This paper provides supplemental tables to accompany Boland, M.A. and J.M. Crespi. “From Farm Management to Agricultural and Applied Economics: The Expansion of a Professional Society as Seen through a Census of Its Dissertations from 1951 to 2005.” *Applied Economics Perspectives and Policy* 32, No. 3 (Autumn 2010): 456-471. The supplemental information contains departmental specific statistics with regard to dissertation topic and journal outlets for dissertation spawned articles.

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**From Farm Management to Agricultural and Applied Economics: The  
Expansion of a Professional Society as Seen through a Census of Its  
Dissertations from 1951 to 2005**

**– Supplemental Tables –**

**Michael A. Boland & John M. Crespi**

A full discussion of the compilation of data from dissertations from 1951 to 2005 can be found in Boland and Crespi, 2010. This paper provides supplementary information that was not presented in Boland and Crespi, 2010 and is provided here for researchers who are seeking more details. In brief, the data set examined has 7,967 graduated doctoral students between 1951 and 2005. Dissertations from the 41 universities listed in Table 1 were considered in the study. Throughout this supplementary report, unless otherwise noted, we will refer to these schools by their assigned school code (1-41) as shown in Table 1.

**Table 1. The 41 U.S. Ph.D. Awarding Institutions Examined in the Study.**

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|                  |                   |                      |                      |                    |
|------------------|-------------------|----------------------|----------------------|--------------------|
| 1. Arizona       | 10. Georgia       | 19. Michigan St.     | 28. Oregon St.       | 37. Virginia Tech. |
| 2. Auburn        | 11. Hawaii        | 20. Minnesota        | 29. Penn St.         | 38. Washington St. |
| 3. Cal. Berkeley | 12. Illinois      | 21. Mississippi St.  | 30. Purdue           | 39. West Virginia  |
| 4. Cal. Davis    | 13. Iowa St.      | 22. Missouri         | 31. Rhode Island     | 40. Wisconsin      |
| 5. Clemson       | 14. Kansas St.    | 23. Montana St.      | 32. South Dakota St. | 41. Wyoming        |
| 6. Colo. St.     | 15. Kentucky      | 24. Nebraska         | 33. Tennessee        |                    |
| 7. Connecticut   | 16. Louisiana St. | 25. No. Carolina St. | 34. Texas A&M        |                    |
| 8. Cornell       | 17. Maryland      | 26. Ohio St.         | 35. Texas Tech       |                    |
| 9. Florida       | 18. Massachusetts | 27. Oklahoma St.     | 36. Utah St.         |                    |

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*Number of Dissertations over Time*

Table 2 shows the 10 leading doctoral programs over time based upon total number of dissertations written. Schools are listed by their assigned number from Table 1.1 Iowa State University (#13), Michigan State University (#19), and University of Wisconsin (#40) together have produced nearly 20 percent of all doctoral degrees in agricultural economics. Concentration has been declining in doctoral programs in agricultural economics. For example, although the top 20 programs graduated 82 percent of all doctoral students in agricultural economics over the 1951 to 2005 time period, the top three programs graduated 33 percent of those students from 1951 to 1960 but only 6 percent from 2001 to 2005. Further, while noting that the sample size is smaller in the 2001-2005 column than the other columns in the table, the largest schools over the entire time period (#13 Iowa State, #40 Wisconsin, and #19 Michigan State) have all slipped out of the top 10 since the decade of 1990.

**Table 2. Top 10 Schools by Number of Dissertations, 1951-2005**

| Rank             | 1951 - 1960 | 1961 - 1970 | 1971 - 1980 | 1981 - 1990 | 1991 - 2000 | 2001 - 2005 | All Years |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|
| 1 <sup>st</sup>  | 13 (84)     | 40 (118)    | 19 (151)    | 13 (120)    | 3 (108)     | 3 (51)      | 13 (538)  |
| 2 <sup>nd</sup>  | 40 (79)     | 3 (111)     | 30 (116)    | 19 (120)    | 13 (98)     | 26 (49)     | 19 (503)  |
| 3 <sup>rd</sup>  | 30 (69)     | 13 (109)    | 40 (113)    | 20 (112)    | 12 (95)     | 25 (46)     | 40 (484)  |
| 4 <sup>th</sup>  | 8 (64)      | 19 (106)    | 13 (108)    | 40 (96)     | 20 (95)     | 30 (35)     | 3 (479)   |
| 5 <sup>th</sup>  | 20 (57)     | 8 (96)      | 8 (103)     | 34 (94)     | 25 (89)     | 4 (35)      | 8 (454)   |
| 6 <sup>th</sup>  | 12 (56)     | 26 (85)     | 12 (91)     | 8 (90)      | 26 (86)     | 12 (35)     | 30 (449)  |
| 7 <sup>th</sup>  | 26 (49)     | 30 (80)     | 3 (88)      | 12 (81)     | 34 (85)     | 34 (31)     | 20 (436)  |
| 8 <sup>th</sup>  | 3 (48)      | 12 (75)     | 28 (73)     | 30 (77)     | 4 (76)      | 20 (29)     | 12 (433)  |
| 9 <sup>th</sup>  | 14 (37)     | 20 (74)     | 20 (69)     | 27 (73)     | 8 (73)      | 8 (28)      | 26 (392)  |
| 10 <sup>th</sup> | 19 (35)     | 25 (72)     | 22 (64)     | 3 (73)      | 30 (72)     | 9 (26)      | 25 (353)  |
| All 41 Schools   | 675         | 1,322       | 1,761       | 1,761       | 1,762       | 686         | 7,967     |

<sup>1</sup> Table 4 shows the number of dissertations by school and time period.

*Determinants of Dissertation Awards*

To account for trends in agricultural economics Ph.D. awards as a function of general demographic covariates, we performed a simple econometric analysis. We tried several macroeconomic variables such as overall incomes, periods of recession, unemployment, and governmental expenditures on agriculture, but found that the simple regression of the log of the U.S. unemployment rate three years earlier ( $UNEM_t$ ), the log of undergraduate enrollments ( $ENROLL_t$ ) three years earlier, and a dummy variable for the period of the draft during the Vietnam War years ( $VIET_t$ ) resulted in a regression equation that performed well in predicting the logged number of agricultural economics dissertations ( $DISS_t$ ) awarded in year  $t = 1951$  to 2005.<sup>2</sup> The resultant regression equation is given in equation (1):

$$\ln DISS_t = \alpha + \beta_1 \ln UNEM_{t-3} + \beta_2 \ln ENROLL_{t-3} + \beta_3 VIET_t + \epsilon_t \quad (1)$$

The  $R^2$  is 0.78 and the t-stats are given below each coefficient. An increase in the unemployment rate by 1% results in a modest, and arguably insignificant, increase in the number of dissertations occurring three years later by 0.184%. On the other hand, undergraduate enrollments and the Vietnam War did have statistically significant positive impacts on the number of dissertations produced. Every one-percent increase in undergraduate enrollment results in about a half-percent increase in the number of agricultural economics dissertations produced in the U.S. three years later. As figure 1 in Boland and Crespi, 2010 and equation (1) show, the Vietnam War years were especially important in increasing the number of Ph.D. graduates. The decline in graduates in the decades following that war are arguably the result of the end of the draft deferments as opposed to some other war-related phenomenon, as there is no important increase in dissertations in the subsequent Gulf War (1991) and even a decline in

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<sup>2</sup> Specifically,  $UNEM$  is the annual civilian unemployment rate reported by the U.S. Department of Labor's Bureau of Labor Statistics available at [www.bls.gov/ces](http://www.bls.gov/ces).  $ENROLL$  is the post-secondary enrollment reported by the U.S. Census Bureau in the Current Population Survey ([www.census.gov/population/www/socdemo/school.html](http://www.census.gov/population/www/socdemo/school.html)).  $VIET$  is equal to one for the years 1965 to 1975; zero otherwise.

dissertations awarded throughout the Iraq War (2003 to present).

*Trends in Dissertation-Spawnd Publications.*

Boland and Crespi, 2010 examined in general how dissertation-spawnd journal publications have changed over time. Table 3 shows the various agricultural and applied economics outlets we examined.

**Table 3. Classification of Journal Categories.**

| Outlet | Journals Included in the Category                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | <i>American J. of Agricultural Economics (formerly J. of Farm Econ.; AJAE/JFE)</i>                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2      | <i>Agricultural and Resource Economics Review (formerly North Eastern J. of Agricultural Economics, ARER/NEJAE); J. of Agricultural and Applied Economics (formerly Southern J. of Agricultural Economics, JAAE/SJAE); Review of Agricultural Economics (formerly North Central J. of Agricultural Economics, RAE/NCJAE); J. of Agricultural and Resource Economics (formerly Western J. of Agricultural Economics, JARE/WJAE)</i>                                                 |
| 3      | <i>Agricultural Economics (AE); J. of Agricultural Economics (JAE); Canadian J. of Agricultural Economics (CJAE); European Review of Agricultural Economics (ERAE); Australian J. of Agricultural Economics (formerly the Australian J. of Agricultural Economics, AJARE); J. of Development Economics (JDE); J. of Development Studies (JDS); J. of International Agricultural Trade &amp; Development (JIATD); J. of International Development (JID); World Development (WD)</i> |
| 4      | <i>Agribusiness: An International J. (ABI), J. of Agribusiness (JAB), International Food and Agribusiness Management Review (IFAMR); J. of Food Distribution Research (JFDR)</i>                                                                                                                                                                                                                                                                                                   |
| 5      | <i>J. of Soil and Water Conservation (JSWC); J. of Environmental Economics and Management (JEEM); Marine Resources Economics (MRE) and Land Economics (LE)</i>                                                                                                                                                                                                                                                                                                                     |

*Publication of Dissertations*

We looked first to see if a dissertation-spawnd article appeared in AJAE. We acknowledge that this biases our findings toward AJAE articles. If no AJAE article was found, we discerned whether an article appeared in another traditional agricultural economics outlet. As such, we know that we are under counting in the case when an author has more than one publication from his or her dissertation. Our method was simply to ask, “Did one’s dissertation result in at least one agricultural economics journal publication and, if so, where?” The categories and statistics for each department’s dissertations are provided in Table 4 (with an aggregation for all schools given at the beginning of the table). Table 4 also shows the total number of dissertations

published by time period for each of the 41 schools in our study. The number of dissertations and their corresponding publication rates given in the row “All Years” refers only to the years in which we recorded a dissertation for that school (for example, “All Years” for Auburn University refers only to the time period from 1981 to 2005, whereas Cornell University covers 1951 to 2005).

Note that the row “2001-2005” covers fewer years than the other rows, so comparisons across time periods needs to be made with caution, obviously. Caution must also be taken when comparing programs in Table 4. First of all, some doctoral programs are newer than others, Cal. Davis, for example, did not produce Ph.D.s until the late 1960s and other departments have not graduated Ph.D. students for some time (the University of Wyoming awarded two Ph.D.’s in the 1980s and none since). As discussed, we did not include a category for other journals or other outlets. Hence “zero” under “% Pub” may include publishing an article out of one’s dissertation in either a book or in another journal outlet for which we simply did not have time to pursue. As we note in Crespi and Boland, 2010, when examining the last decade’s worth of data very few dissertation spawned articles from these 41 departments appeared in journals other than those shown here.

Table 4. Number of Dissertations and Share of Generated Publications by School: 1951- 2005.

| School          | Period    | Num.  | % Pub | % AJAE | % #2 | % #3 | % #4 | % #5 |
|-----------------|-----------|-------|-------|--------|------|------|------|------|
| All Schools     | 1951-1960 | 675   | 24%   | 24%    | 0%   | 0%   | 0%   | 0%   |
|                 | 1961-1970 | 1,322 | 15    | 14     | 1    | 0    | 0    | 0    |
|                 | 1971-1980 | 1,761 | 20    | 14     | 5    | 0    | 0    | 0    |
|                 | 1981-1990 | 1,761 | 23    | 15     | 6    | 1    | 1    | 0    |
|                 | 1991-2000 | 1,762 | 22    | 7      | 10   | 2    | 2    | 2    |
|                 | 2001-2005 | 686   | 28    | 7      | 11   | 5    | 2    | 3    |
|                 | All Years | 7,967 | 21    | 13     | 6    | 1    | 1    | 1    |
| 1 Arizona       | 1961-1970 | 1     | 0     | 0      | 0    | 0    | 0    | 0    |
|                 | 1971-1980 | 8     | 13    | 13     | 0    | 0    | 0    | 0    |
|                 | 1981-1990 | 5     | 20    | 0      | 0    | 0    | 0    | 20   |
|                 | 1991-2000 | 4     | 25    | 0      | 25   | 0    | 0    | 0    |
|                 | 2001-2005 | 2     | 0     | 0      | 0    | 0    | 0    | 0    |
|                 | All Years | 20    | 15    | 5      | 5    | 0    | 0    | 5    |
| 2 Auburn        | 1981-1990 | 10    | 40    | 10     | 30   | 0    | 0    | 0    |
|                 | 1991-2000 | 30    | 33    | 20     | 13   | 0    | 0    | 0    |
|                 | 2001-2005 | 6     | 50    | 0      | 33   | 0    | 17   | 0    |
|                 | All Years | 46    | 37    | 15     | 20   | 0    | 2    | 0    |
| 3 Cal. Berkeley | 1951-1960 | 48    | 38    | 38     | 0    | 0    | 0    | 0    |
|                 | 1961-1970 | 111   | 20    | 20     | 0    | 0    | 0    | 0    |
|                 | 1971-1980 | 88    | 18    | 17     | 1    | 0    | 0    | 0    |
|                 | 1981-1990 | 73    | 37    | 36     | 0    | 0    | 1    | 0    |
|                 | 1991-2000 | 108   | 16    | 7      | 6    | 2    | 0    | 1    |
|                 | 2001-2005 | 51    | 37    | 16     | 4    | 12   | 0    | 6    |
|                 | All Years | 479   | 25    | 20     | 2    | 2    | 0    | 1    |
| 4 Cal. Davis    | 1961-1970 | 10    | 20    | 10     | 10   | 0    | 0    | 0    |
|                 | 1971-1980 | 56    | 48    | 41     | 7    | 0    | 0    | 0    |
|                 | 1981-1990 | 71    | 56    | 48     | 6    | 0    | 0    | 3    |
|                 | 1991-2000 | 76    | 38    | 24     | 3    | 3    | 0    | 9    |
|                 | 2001-2005 | 35    | 40    | 23     | 6    | 3    | 0    | 9    |
|                 | All Years | 248   | 45    | 34     | 5    | 1    | 0    | 5    |
| 5 Clemson       | 1961-1970 | 8     | 0     | 0      | 0    | 0    | 0    | 0    |
|                 | 1971-1980 | 22    | 5     | 0      | 5    | 0    | 0    | 0    |
|                 | 1981-1990 | 19    | 11    | 0      | 11   | 0    | 0    | 0    |
|                 | 1991-2000 | 23    | 13    | 0      | 4    | 4    | 0    | 4    |
|                 | 2001-2005 | 9     | 11    | 0      | 11   | 0    | 0    | 0    |
|                 | All Years | 81    | 9     | 0      | 6    | 1    | 0    | 1    |



Table 4. Number of Dissertations and Share of Generated Publications by School-Continued.

| School        | Period    | Num. | % Pub | % AJAE | % #2 | % #3 | % #4 | % #5 |
|---------------|-----------|------|-------|--------|------|------|------|------|
| 6 Colo. St.   | 1961-1970 | 1    | 0%    | 0%     | 0%   | 0%   | 0%   | 0%   |
|               | 1971-1980 | 8    | 25    | 13     | 13   | 0    | 0    | 0    |
|               | 1981-1990 | 34   | 21    | 12     | 9    | 0    | 0    | 0    |
|               | 1991-2000 | 35   | 26    | 9      | 17   | 0    | 0    | 0    |
|               | 2001-2005 | 19   | 16    | 0      | 11   | 5    | 0    | 0    |
|               | All Years | 97   | 22    | 8      | 12   | 1    | 0    | 0    |
| 7 Connecticut | 1951-1960 | 2    | 0     | 0      | 0    | 0    | 0    | 0    |
|               | 1961-1970 | 9    | 11    | 0      | 11   | 0    | 0    | 0    |
|               | 1971-1980 | 14   | 7     | 7      | 0    | 0    | 0    | 0    |
|               | 1981-1990 | 3    | 0     | 0      | 0    | 0    | 0    | 0    |
|               | 1991-2000 | 17   | 24    | 6      | 12   | 0    | 0    | 6    |
|               | 2001-2005 | 14   | 21    | 7      | 0    | 14   | 0    | 0    |
|               | All Years | 59   | 15    | 5      | 5    | 3    | 0    | 2    |
| 8 Cornell     | 1951-1960 | 64   | 8     | 8      | 0    | 0    | 0    | 0    |
|               | 1961-1970 | 96   | 11    | 10     | 0    | 0    | 1    | 0    |
|               | 1971-1980 | 103  | 14    | 12     | 1    | 1    | 0    | 0    |
|               | 1981-1990 | 90   | 16    | 12     | 2    | 1    | 0    | 0    |
|               | 1991-2000 | 73   | 14    | 8      | 5    | 0    | 0    | 0    |
|               | 2001-2005 | 28   | 29    | 4      | 14   | 4    | 0    | 7    |
|               | All Years | 454  | 14    | 10     | 2    | 1    | 0    | 0    |
| 9 Florida     | 1951-1960 | 7    | 14    | 14     | 0    | 0    | 0    | 0    |
|               | 1961-1970 | 15   | 7     | 7      | 0    | 0    | 0    | 0    |
|               | 1971-1980 | 33   | 24    | 6      | 18   | 0    | 0    | 0    |
|               | 1981-1990 | 49   | 18    | 10     | 8    | 0    | 0    | 0    |
|               | 1991-2000 | 50   | 12    | 0      | 8    | 0    | 4    | 0    |
|               | 2001-2005 | 26   | 23    | 4      | 4    | 0    | 8    | 8    |
|               | All Years | 180  | 17    | 6      | 8    | 0    | 2    | 1    |
| 10 Georgia    | 1961-1970 | 1    | 0     | 0      | 0    | 0    | 0    | 0    |
|               | 1971-1980 | 3    | 0     | 0      | 0    | 0    | 0    | 0    |
|               | 1981-1990 | 25   | 32    | 28     | 0    | 0    | 4    | 0    |
|               | 1991-2000 | 29   | 21    | 3      | 14   | 0    | 3    | 0    |
|               | 2001-2005 | 16   | 38    | 6      | 25   | 6    | 0    | 0    |
|               | 1951-1960 | 1    | 0     | 0      | 0    | 0    | 0    | 0    |
|               | All Years | 74   | 27    | 12     | 11   | 1    | 3    | 0    |
| 11 Hawaii     | 1961-1970 | 16   | 0     | 0      | 0    | 0    | 0    | 0    |
|               | 1971-1980 | 43   | 5     | 2      | 2    | 0    | 0    | 0    |
|               | 1981-1990 | 56   | 4     | 2      | 0    | 0    | 2    | 0    |
|               | 1991-2000 | 13   | 23    | 0      | 8    | 8    | 0    | 8    |
|               | All Years | 129  | 5     | 2      | 2    | 1    | 1    | 1    |

Table 4. Number of Dissertations and Share of Generated Publications by School-Continued.

| School           | Period    | Num. | % Pub | % AJAE | % #2 | % # 3 | % # 4 | % # 5 |
|------------------|-----------|------|-------|--------|------|-------|-------|-------|
| 12 Illinois      | 1951-1960 | 56   | 29%   | 29%    | 0%   | 0%    | 0%    | 0%    |
|                  | 1961-1970 | 75   | 16    | 16     | 0    | 0     | 0     | 0     |
|                  | 1971-1980 | 91   | 22    | 16     | 5    | 0     | 0     | 0     |
|                  | 1981-1990 | 81   | 22    | 17     | 5    | 0     | 0     | 0     |
|                  | 1991-2000 | 95   | 20    | 7      | 6    | 0     | 6     | 0     |
|                  | 2001-2005 | 35   | 23    | 3      | 9    | 6     | 6     | 0     |
|                  | All Years | 433  | 21    | 15     | 4    | 0     | 2     | 0     |
| 13 Iowa St.      | 1951-1960 | 84   | 36    | 36     | 0    | 0     | 0     | 0     |
|                  | 1961-1970 | 109  | 19    | 19     | 0    | 0     | 0     | 0     |
|                  | 1971-1980 | 108  | 26    | 18     | 8    | 0     | 0     | 0     |
|                  | 1981-1990 | 120  | 18    | 13     | 4    | 1     | 0     | 0     |
|                  | 1991-2000 | 98   | 16    | 6      | 7    | 2     | 0     | 1     |
|                  | 2001-2005 | 19   | 37    | 16     | 11   | 11    | 0     | 0     |
|                  | All Years | 538  | 23    | 18     | 4    | 1     | 0     | 0     |
| 14 Kansas St.    | 1951-1960 | 37   | 38    | 38     | 0    | 0     | 0     | 0     |
|                  | 1961-1970 | 31   | 19    | 13     | 6    | 0     | 0     | 0     |
|                  | 1971-1980 | 45   | 11    | 0      | 7    | 0     | 4     | 0     |
|                  | 1981-1990 | 38   | 5     | 0      | 5    | 0     | 0     | 0     |
|                  | 1991-2000 | 65   | 14    | 3      | 8    | 3     | 0     | 0     |
|                  | 2001-2005 | 19   | 63    | 16     | 47   | 0     | 0     | 0     |
|                  | All Years | 235  | 20    | 10     | 9    | 1     | 1     | 0     |
| 15 Kentucky      | 1951-1960 | 4    | 25    | 25     | 0    | 0     | 0     | 0     |
|                  | 1961-1970 | 22   | 5     | 5      | 0    | 0     | 0     | 0     |
|                  | 1971-1980 | 29   | 31    | 10     | 17   | 0     | 3     | 0     |
|                  | 1981-1990 | 29   | 21    | 7      | 14   | 0     | 0     | 0     |
|                  | 1991-2000 | 30   | 17    | 3      | 10   | 0     | 3     | 0     |
|                  | 2001-2005 | 14   | 21    | 0      | 14   | 7     | 0     | 0     |
|                  | All Years | 128  | 20    | 6      | 11   | 1     | 2     | 0     |
| 16 Louisiana St. | 1951-1960 | 6    | 17    | 17     | 0    | 0     | 0     | 0     |
|                  | 1961-1970 | 19   | 0     | 0      | 0    | 0     | 0     | 0     |
|                  | 1971-1980 | 7    | 14    | 14     | 0    | 0     | 0     | 0     |
|                  | 1981-1990 | 7    | 0     | 0      | 0    | 0     | 0     | 0     |
|                  | 1991-2000 | 13   | 31    | 0      | 15   | 0     | 15    | 0     |
|                  | 2001-2005 | 10   | 50    | 0      | 40   | 10    | 0     | 0     |
|                  | All Years | 62   | 18    | 3      | 10   | 2     | 3     | 0     |

Table 4. Number of Dissertations and Share of Generated Publications by School-Continued.

| School             | Period    | Num. | % Pub | % AJAE | % #2 | % #3 | % #4 | % #5 |
|--------------------|-----------|------|-------|--------|------|------|------|------|
| 17 Maryland        | 1951-1960 | 6    | 0%    | 0%     | 0%   | 0%   | 0%   | 0%   |
|                    | 1961-1970 | 27   | 4     | 0      | 4    | 0    | 0    | 0    |
|                    | 1971-1980 | 30   | 17    | 10     | 7    | 0    | 0    | 0    |
|                    | 1981-1990 | 20   | 40    | 30     | 5    | 5    | 0    | 0    |
|                    | 1991-2000 | 40   | 38    | 25     | 8    | 0    | 0    | 5    |
|                    | 2001-2005 | 16   | 44    | 13     | 13   | 6    | 0    | 13   |
|                    | All Years | 139  | 26    | 15     | 6    | 1    | 0    | 3    |
| 18 Massachusetts   | 1951-1960 | 1    | 100   | 100    | 0    | 0    | 0    | 0    |
|                    | 1971-1980 | 9    | 22    | 22     | 0    | 0    | 0    | 0    |
|                    | 1981-1990 | 10   | 20    | 0      | 20   | 0    | 0    | 0    |
|                    | 1991-2000 | 14   | 29    | 7      | 7    | 7    | 7    | 0    |
|                    | 2001-2005 | 4    | 0     | 0      | 0    | 0    | 0    | 0    |
|                    | All Years | 38   | 24    | 11     | 8    | 3    | 3    | 0    |
| 19 Michigan St.    | 1951-1960 | 35   | 34    | 34     | 0    | 0    | 0    | 0    |
|                    | 1961-1970 | 106  | 26    | 25     | 1    | 0    | 0    | 0    |
|                    | 1971-1980 | 151  | 15    | 14     | 1    | 0    | 0    | 0    |
|                    | 1981-1990 | 120  | 14    | 8      | 5    | 1    | 1    | 0    |
|                    | 1991-2000 | 70   | 9     | 3      | 1    | 0    | 4    | 0    |
|                    | 2001-2005 | 21   | 29    | 5      | 14   | 10   | 0    | 0    |
|                    | All Years | 503  | 18    | 14     | 2    | 1    | 1    | 0    |
| 20 Minnesota       | 1951-1960 | 57   | 19    | 19     | 0    | 0    | 0    | 0    |
|                    | 1961-1970 | 74   | 11    | 11     | 0    | 0    | 0    | 0    |
|                    | 1971-1980 | 69   | 22    | 19     | 1    | 0    | 1    | 0    |
|                    | 1981-1990 | 112  | 23    | 19     | 3    | 1    | 1    | 0    |
|                    | 1991-2000 | 95   | 25    | 5      | 14   | 3    | 1    | 2    |
|                    | 2001-2005 | 29   | 28    | 0      | 10   | 3    | 10   | 3    |
|                    | All Years | 436  | 21    | 13     | 5    | 1    | 1    | 1    |
| 21 Mississippi St. | 1951-1960 | 1    | 0     | 0      | 0    | 0    | 0    | 0    |
|                    | 1961-1970 | 1    | 0     | 0      | 0    | 0    | 0    | 0    |
|                    | 1971-1980 | 15   | 13    | 7      | 0    | 0    | 7    | 0    |
|                    | 1981-1990 | 41   | 15    | 2      | 12   | 0    | 0    | 0    |
|                    | 1991-2000 | 35   | 14    | 0      | 11   | 0    | 3    | 0    |
|                    | 2001-2005 | 8    | 13    | 0      | 13   | 0    | 0    | 0    |
|                    | All Years | 101  | 14    | 2      | 10   | 0    | 2    | 0    |

Table 4. Number of Dissertations and Share of Generated Publications by School-Continued.

| School              | Period    | Num. | % Pub | % AJAE | % #2 | % #3 | % #4 | % #5 |
|---------------------|-----------|------|-------|--------|------|------|------|------|
| 22 Missouri         | 1951-1960 | 8    | 0%    | 0%     | 0%   | 0%   | 0%   | 0%   |
|                     | 1961-1970 | 41   | 15    | 12     | 0    | 0    | 2    | 0    |
|                     | 1971-1980 | 64   | 17    | 14     | 3    | 0    | 0    | 0    |
|                     | 1981-1990 | 43   | 19    | 9      | 9    | 0    | 0    | 0    |
|                     | 1991-2000 | 39   | 15    | 3      | 8    | 3    | 0    | 3    |
|                     | 2001-2005 | 6    | 17    | 0      | 17   | 0    | 0    | 0    |
|                     | All Years | 201  | 16    | 9      | 5    | 0    | 0    | 0    |
| 23 Montana St.      | 1961-1970 | 7    | 14    | 14     | 0    | 0    | 0    | 0    |
|                     | 1971-1980 | 5    | 0     | 0      | 0    | 0    | 0    | 0    |
|                     | All Years | 12   | 8     | 8      | 0    | 0    | 0    | 0    |
| 24 Nebraska         | 1961-1970 | 11   | 0     | 0      | 0    | 0    | 0    | 0    |
|                     | 1971-1980 | 28   | 4     | 0      | 4    | 0    | 0    | 0    |
|                     | 1981-1990 | 30   | 10    | 7      | 3    | 0    | 0    | 0    |
|                     | 1991-2000 | 28   | 25    | 0      | 25   | 0    | 0    | 0    |
|                     | 2001-2005 | 4    | 25    | 0      | 0    | 0    | 25   | 0    |
|                     | All Years | 101  | 12    | 2      | 9    | 0    | 1    | 0    |
| 25 No. Carolina St. | 1951-1960 | 20   | 30    | 30     | 0    | 0    | 0    | 0    |
|                     | 1961-1970 | 72   | 21    | 19     | 1    | 0    | 0    | 0    |
|                     | 1971-1980 | 63   | 11    | 10     | 2    | 0    | 0    | 0    |
|                     | 1981-1990 | 63   | 25    | 21     | 3    | 0    | 2    | 0    |
|                     | 1991-2000 | 89   | 28    | 7      | 18   | 2    | 0    | 1    |
|                     | 2001-2005 | 46   | 17    | 7      | 7    | 4    | 0    | 0    |
|                     | All Years | 353  | 22    | 14     | 7    | 1    | 0    | 0    |
| 26 Ohio St.         | 1951-1960 | 49   | 10    | 10     | 0    | 0    | 0    | 0    |
|                     | 1961-1970 | 85   | 7     | 7      | 0    | 0    | 0    | 0    |
|                     | 1971-1980 | 63   | 8     | 6      | 0    | 0    | 2    | 0    |
|                     | 1981-1990 | 60   | 12    | 10     | 2    | 0    | 0    | 0    |
|                     | 1991-2000 | 86   | 15    | 5      | 2    | 3    | 5    | 0    |
|                     | 2001-2005 | 49   | 20    | 6      | 8    | 4    | 2    | 0    |
|                     | All Years | 392  | 12    | 7      | 2    | 1    | 2    | 0    |
| 27 Oklahoma St.     | 1951-1960 | 9    | 11    | 11     | 0    | 0    | 0    | 0    |
|                     | 1961-1970 | 36   | 22    | 19     | 3    | 0    | 0    | 0    |
|                     | 1971-1980 | 59   | 42    | 25     | 17   | 0    | 0    | 0    |
|                     | 1981-1990 | 73   | 18    | 7      | 5    | 3    | 3    | 0    |
|                     | 1991-2000 | 64   | 19    | 2      | 14   | 3    | 0    | 0    |
|                     | 2001-2005 | 21   | 19    | 0      | 19   | 0    | 0    | 0    |
|                     | All Years | 262  | 24    | 11     | 11   | 2    | 1    | 0    |

Table 4. Number of Dissertations and Share of Generated Publications by School-Continued.

| School              | Period    | Num. | % Pub | % AJAE | % #2 | % #3 | % #4 | % #5 |
|---------------------|-----------|------|-------|--------|------|------|------|------|
| 28 Oregon St.       | 1951-1960 | 5    | 0%    | 0%     | 0%   | 0%   | 0%   | 0%   |
|                     | 1961-1970 | 40   | 23    | 20     | 3    | 0    | 0    | 0    |
|                     | 1971-1980 | 73   | 19    | 11     | 8    | 0    | 0    | 0    |
|                     | 1981-1990 | 61   | 20    | 11     | 8    | 0    | 0    | 0    |
|                     | 1991-2000 | 26   | 38    | 8      | 12   | 0    | 4    | 15   |
|                     | 2001-2005 | 12   | 67    | 33     | 0    | 0    | 0    | 33   |
|                     | All Years | 217  | 24    | 13     | 7    | 0    | 0    | 4    |
| 29 Penn St.         | 1951-1960 | 18   | 28    | 28     | 0    | 0    | 0    | 0    |
|                     | 1961-1970 | 31   | 26    | 16     | 6    | 0    | 3    | 0    |
|                     | 1971-1980 | 42   | 12    | 7      | 5    | 0    | 0    | 0    |
|                     | 1981-1990 | 16   | 63    | 31     | 31   | 0    | 0    | 0    |
|                     | 1991-2000 | 33   | 24    | 9      | 9    | 0    | 3    | 3    |
|                     | 2001-2005 | 11   | 45    | 18     | 18   | 9    | 0    | 0    |
|                     | All Years | 151  | 27    | 15     | 9    | 1    | 1    | 1    |
| 30 Purdue           | 1951-1960 | 69   | 19    | 19     | 0    | 0    | 0    | 0    |
|                     | 1961-1970 | 80   | 18    | 18     | 0    | 0    | 0    | 0    |
|                     | 1971-1980 | 116  | 26    | 21     | 5    | 0    | 0    | 0    |
|                     | 1981-1990 | 77   | 36    | 31     | 1    | 4    | 0    | 0    |
|                     | 1991-2000 | 72   | 29    | 11     | 8    | 4    | 6    | 0    |
|                     | 2001-2005 | 35   | 40    | 6      | 9    | 17   | 6    | 3    |
|                     | All Years | 449  | 27    | 19     | 4    | 3    | 1    | 0    |
| 31 Rhode Island     | 1971-1980 | 6    | 33    | 33     | 0    | 0    | 0    | 0    |
|                     | 1981-1990 | 11   | 9     | 0      | 9    | 0    | 0    | 0    |
|                     | 1991-2000 | 29   | 28    | 10     | 7    | 0    | 0    | 10   |
|                     | 2001-2005 | 14   | 7     | 0      | 0    | 7    | 0    | 0    |
|                     | All Years | 60   | 20    | 8      | 5    | 2    | 0    | 5    |
| 32 South Dakota St. | 1951-1960 | 2    | 0     | 0      | 0    | 0    | 0    | 0    |
|                     | 1961-1970 | 1    | 0     | 0      | 0    | 0    | 0    | 0    |
|                     | All Years | 3    | 0     | 0      | 0    | 0    | 0    | 0    |
| 33 Tennessee        | 1961-1970 | 16   | 0     | 0      | 0    | 0    | 0    | 0    |
|                     | 1971-1980 | 40   | 15    | 10     | 5    | 0    | 0    | 0    |
|                     | 1981-1990 | 17   | 29    | 6      | 18   | 0    | 6    | 0    |
|                     | 1991-2000 | 21   | 10    | 5      | 5    | 0    | 0    | 0    |
|                     | All Years | 94   | 14    | 6      | 6    | 0    | 1    | 0    |

Table 4. Number of Dissertations and Share of Generated Publications by School-Continued.

| School            | Period    | Num. | % Pub | % AJAE | % #2 | % #3 | % #4 | % #5 |
|-------------------|-----------|------|-------|--------|------|------|------|------|
| 34 Texas A&M      | 1951-1960 | 7    | 14%   | 14%    | 0%   | 0%   | 0%   | 0%   |
|                   | 1961-1970 | 37   | 19    | 14     | 5    | 0    | 0    | 0    |
|                   | 1971-1980 | 55   | 35    | 20     | 15   | 0    | 0    | 0    |
|                   | 1981-1990 | 94   | 44    | 20     | 20   | 1    | 2    | 0    |
|                   | 1991-2000 | 85   | 39    | 13     | 21   | 1    | 2    | 1    |
|                   | 2001-2005 | 31   | 26    | 3      | 16   | 3    | 3    | 0    |
|                   | All Years | 309  | 35    | 16     | 17   | 1    | 2    | 0    |
| 35 Texas Tech     | 1981-1990 | 9    | 22    | 22     | 0    | 0    | 0    | 0    |
|                   | 1991-2000 | 14   | 21    | 0      | 21   | 0    | 0    | 0    |
|                   | 2001-2005 | 6    | 17    | 0      | 17   | 0    | 0    | 0    |
|                   | All Years | 29   | 21    | 7      | 14   | 0    | 0    | 0    |
| 36 Utah St.       | 1971-1980 | 15   | 20    | 13     | 7    | 0    | 0    | 0    |
|                   | 1981-1990 | 11   | 0     | 0      | 0    | 0    | 0    | 0    |
|                   | 1991-2000 | 25   | 4     | 0      | 4    | 0    | 0    | 0    |
|                   | 2001-2005 | 6    | 0     | 0      | 0    | 0    | 0    | 0    |
|                   | All Years | 57   | 7     | 4      | 4    | 0    | 0    | 0    |
| 37 Virginia Tech. | 1961-1970 | 5    | 0     | 0      | 0    | 0    | 0    | 0    |
|                   | 1971-1980 | 28   | 25    | 14     | 11   | 0    | 0    | 0    |
|                   | 1981-1990 | 25   | 44    | 20     | 20   | 0    | 4    | 0    |
|                   | 1991-2000 | 37   | 27    | 5      | 16   | 5    | 0    | 0    |
|                   | 2001-2005 | 8    | 25    | 13     | 13   | 0    | 0    | 0    |
|                   | All Years | 103  | 29    | 12     | 15   | 2    | 1    | 0    |
| 38 Washington St. | 1961-1970 | 10   | 10    | 10     | 0    | 0    | 0    | 0    |
|                   | 1971-1980 | 59   | 22    | 15     | 7    | 0    | 0    | 0    |
|                   | 1981-1990 | 59   | 25    | 7      | 15   | 0    | 3    | 0    |
|                   | 1991-2000 | 35   | 26    | 6      | 20   | 0    | 0    | 0    |
|                   | 2001-2005 | 25   | 16    | 0      | 8    | 0    | 8    | 0    |
|                   | All Years | 188  | 22    | 9      | 12   | 0    | 2    | 0    |
| 39 West Virginia  | 1981-1990 | 1    | 100   | 100    | 0    | 0    | 0    | 0    |
|                   | 1991-2000 | 7    | 14    | 0      | 14   | 0    | 0    | 0    |
|                   | 2001-2005 | 12   | 17    | 0      | 0    | 8    | 0    | 8    |
|                   | All Years | 20   | 20    | 5      | 5    | 5    | 0    | 5    |

Table 4. Number of Dissertations and Share of Generated Publications by School-Continued.

| School       | Period    | Num. | % Pub | % AJAE | % #2 | % # 3 | % # 4 | % # 5 |
|--------------|-----------|------|-------|--------|------|-------|-------|-------|
| 40 Wisconsin | 1951-1960 | 79   | 27%   | 27%    | 0%   | 0%    | 0%    | 0%    |
|              | 1961-1970 | 118  | 8     | 8      | 0    | 0     | 0     | 0     |
|              | 1971-1980 | 113  | 19    | 18     | 2    | 0     | 0     | 0     |
|              | 1981-1990 | 96   | 18    | 17     | 1    | 0     | 0     | 0     |
|              | 1991-2000 | 59   | 24    | 14     | 5    | 3     | 0     | 2     |
|              | 2001-2005 | 19   | 32    | 16     | 11   | 5     | 0     | 0     |
|              | All Years | 484  | 19    | 16     | 2    | 1     | 0     | 0     |
| 41 Wyoming   | 1981-1990 | 2    | 0     | 0      | 0    | 0     | 0     | 0     |
|              | All Years | 2    | 0     | 0      | 0    | 0     | 0     | 0     |

*Dissertation Publication Rates*

One should expect that the publication rates for 2001-2005 will be lower simply because the first articles from some of these dissertations are still in the publication process at present (2010), hence we have no recorded publication. Nevertheless, note that the rate of publication for many schools has increased in this time period, even with this caveat.

*Dissertations Published in the AJAE*

Based on the total number of dissertation publications from 1951 to 2005, the top five publishers for any of the outlets are: Iowa State (124 dissertations were published in one of the five outlets); Purdue (120); Cal. Berkeley (120); Cal. Davis (111), and Texas A&M (109). Using the same metric, the top five publishers of dissertations specifically in the AJAE are: Cal. Berkeley (97); Iowa State (95); Purdue (85); Cal. Davis (83), and Wisconsin (78). Hence, Iowa State, for example, saw 76 percent of its published dissertations appearing in AJAE.<sup>3</sup>

<sup>3</sup> Relatedly, these top five publishers in the AJAE are also among the top ten schools for AAEA award winning theses and dissertations (source: [www.agecon.ucdavis.edu/academic\\_programs/graduate/awards/](http://www.agecon.ucdavis.edu/academic_programs/graduate/awards/)).

*Rate of Dissertations Published Over Time*

However, taking the size of the program into account creates a different picture. We look now at the rate of dissertation publications (not the volume) as a share of the number of dissertations produced. Over the life of each program, the top five publishers based on publication rates in any of the outlets are: Cal. Davis (45%); Auburn (37%); Texas A&M (35%); Virginia Tech (29%), and Penn State (27%). The top five publishers of dissertations specifically in the AJAE are: Cal. Davis (34%); Cal. Berkeley (20%); Purdue (19%); Iowa State (18%), and Wisconsin (16%).

What about the recent state of the profession's dissertation related publications? In the most recent years, 2001 to 2005, the results show a very different picture. The top five publishers in any journal are: Oregon State (67%); Kansas State (63%); Auburn (50%); Louisiana State (50%), and Penn State (46%). For AJAE publications, only Cal. Davis and Iowa State remain in the top five. Specifically, the top five publishers of dissertations in the AJAE from 2001 to 2005 are: Oregon State (33%); Cal. Davis (23%); Penn State (18%); Kansas State (16%), and Iowa State (16%).

*Classification of Doctoral Research and Journal Outlet by Subject Categories*

Table 5 lists the twelve American Economic Association (AEA) subject categories that are assigned to each dissertation. The appendix provides a detailed breakdown of these classification subject codes. Each dissertation was assigned to one of these categories, most often, by the graduate student or his or her major professor. Those dissertations that we found that were not listed in the AAEA newsletters or journals (a very small number), we used the title and/or abstract to assign a subject classification code.



*Likelihood of Publication by AEA Category and Department*

Table 5 also shows the likelihood of publication based upon the type of dissertation one produced by dividing the 7,967 dissertations into the 12 AEA categories showing number of dissertations and the percentage of these published in the 5 journal outlets by AEA categories (both over time and in all years of the study). As can be seen in Table 5, each category historically has garnered about a 20% dissertation publication rate. AEA category 1, Consumer Demand, has seen a steep increase in its publication rate growing from a 7% rate of dissertation publications in the 1950s to 35% today. By comparison, though, AJAE publication rates of dissertation articles under this category grew only through the 1980s and have declined today roughly to their 1950s' level. The increase is being absorbed by the other journals.<sup>4</sup>

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<sup>4</sup> We also used conjoint analysis to examine each of the publication rates as a function of school, AEA code, and decade in which the dissertation was awarded. What the conjoint analysis showed was that the type of dissertation and the year of graduation accounted together for only about 30% of the variation in publication rates, with a graduate's school being the most important factor.

Table 5. Number of Dissertations and Publication Rates by AEA Code: 1951- 2005

| AEA Code                                                                               | Period    | Num.  | % Pub | % AJAE | % #2 | % # 3 | % # 4 | % # 5 |
|----------------------------------------------------------------------------------------|-----------|-------|-------|--------|------|-------|-------|-------|
| 1. Consumer Demand                                                                     | 1951-1960 | 43    | 7%    | 7%     | 0%   | 0%    | 0%    | 0%    |
|                                                                                        | 1961-1970 | 71    | 17    | 17     | 0    | 0     | 0     | 0     |
|                                                                                        | 1971-1980 | 43    | 26    | 21     | 2    | 0     | 2     | 0     |
|                                                                                        | 1981-1990 | 65    | 29    | 22     | 5    | 2     | 2     | 0     |
|                                                                                        | 1991-2000 | 99    | 22    | 12     | 6    | 0     | 4     | 0     |
|                                                                                        | 2001-2005 | 40    | 35    | 8      | 10   | 5     | 13    | 0     |
|                                                                                        | All Years | 361   | 22    | 15     | 4    | 1     | 3     | 0     |
| 2. Production Economics & Supply                                                       | 1951-1960 | 112   | 35    | 35     | 0    | 0     | 0     | 0     |
|                                                                                        | 1961-1970 | 159   | 19    | 18     | 2    | 0     | 0     | 0     |
|                                                                                        | 1971-1980 | 323   | 23    | 16     | 7    | 0     | 0     | 0     |
|                                                                                        | 1981-1990 | 324   | 33    | 21     | 10   | 1     | 1     | 0     |
|                                                                                        | 1991-2000 | 176   | 25    | 12     | 12   | 1     | 0     | 0     |
|                                                                                        | 2001-2005 | 74    | 43    | 4      | 24   | 9     | 5     | 0     |
|                                                                                        | All Years | 1,168 | 28    | 18     | 8    | 1     | 1     | 0     |
| 3. Agricultural Products: price analysis, subsector models, marketing, futures markets | 1951-1960 | 127   | 20    | 20     | 0    | 0     | 0     | 0     |
|                                                                                        | 1961-1970 | 218   | 14    | 12     | 2    | 0     | 0     | 0     |
|                                                                                        | 1971-1980 | 225   | 24    | 18     | 4    | 0     | 1     | 0     |
|                                                                                        | 1981-1990 | 311   | 22    | 15     | 6    | 0     | 1     | 0     |
|                                                                                        | 1991-2000 | 199   | 24    | 5      | 13   | 2     | 4     | 1     |
|                                                                                        | 2001-2005 | 78    | 23    | 8      | 9    | 5     | 1     | 0     |
|                                                                                        | All Years | 1,158 | 21    | 13     | 6    | 1     | 1     | 0     |
| 4. Agricultural Inputs: land, labor, finance                                           | 1951-1960 | 156   | 24    | 24     | 0    | 0     | 0     | 0     |
|                                                                                        | 1961-1970 | 268   | 11    | 10     | 0    | 0     | 1     | 0     |
|                                                                                        | 1971-1980 | 227   | 17    | 13     | 4    | 0     | 0     | 0     |
|                                                                                        | 1981-1990 | 128   | 19    | 15     | 2    | 0     | 2     | 0     |
|                                                                                        | 1991-2000 | 142   | 14    | 6      | 4    | 0     | 4     | 0     |
|                                                                                        | 2001-2005 | 45    | 31    | 9      | 18   | 2     | 0     | 2     |
|                                                                                        | All Years | 966   | 17    | 13     | 3    | 0     | 1     | 0     |
| 5. Natural Resources: energy, conservation, land use, water, forestry, fisheries       | 1951-1960 | 42    | 31    | 31     | 0    | 0     | 0     | 0     |
|                                                                                        | 1961-1970 | 112   | 16    | 14     | 2    | 0     | 0     | 0     |
|                                                                                        | 1971-1980 | 157   | 26    | 17     | 10   | 0     | 0     | 0     |
|                                                                                        | 1981-1990 | 235   | 25    | 15     | 9    | 0     | 1     | 1     |
|                                                                                        | 1991-2000 | 236   | 23    | 6      | 9    | 3     | 0     | 5     |
|                                                                                        | 2001-2005 | 103   | 30    | 8      | 11   | 3     | 0     | 9     |
|                                                                                        | All Years | 885   | 25    | 13     | 8    | 1     | 0     | 2     |

**Table 5. Number of Dissertations and Publication Rates by AEA Code-Continued.**

| AEA Code                                                                                | Period    | Num.  | % Pub | % AJAE | % #2 | % # 3 | % # 4 | % # 5 |
|-----------------------------------------------------------------------------------------|-----------|-------|-------|--------|------|-------|-------|-------|
| 6. Environmental Economics:<br>pollution, regulation,<br>nonmarket valuation            | 1951-1960 | 0     | 0%    | 0%     | 0%   | 0%    | 0%    | 0%    |
|                                                                                         | 1961-1970 | 1     | 100   | 100    | 0    | 0     | 0     | 0     |
|                                                                                         | 1971-1980 | 80    | 26    | 19     | 8    | 0     | 0     | 0     |
|                                                                                         | 1981-1990 | 40    | 30    | 25     | 5    | 0     | 0     | 0     |
|                                                                                         | 1991-2000 | 181   | 32    | 9      | 15   | 2     | 1     | 6     |
|                                                                                         | 2001-2005 | 84    | 23    | 6      | 5    | 2     | 0     | 10    |
|                                                                                         | All Years | 386   | 29    | 12     | 10   | 1     | 1     | 5     |
| 7. Agricultural and Food Policy:<br>regulation, taxation, welfare                       | 1951-1960 | 60    | 27    | 27     | 0    | 0     | 0     | 0     |
|                                                                                         | 1961-1970 | 144   | 17    | 15     | 1    | 0     | 1     | 0     |
|                                                                                         | 1971-1980 | 142   | 23    | 20     | 2    | 0     | 1     | 0     |
|                                                                                         | 1981-1990 | 133   | 29    | 16     | 11   | 1     | 1     | 0     |
|                                                                                         | 1991-2000 | 131   | 26    | 11     | 11   | 2     | 0     | 2     |
|                                                                                         | 2001-2005 | 34    | 32    | 15     | 15   | 3     | 0     | 0     |
|                                                                                         | All Years | 644   | 24    | 16     | 6    | 1     | 1     | 0     |
| 8. Economic Development:<br>developing economies, aid,<br>regional, general equilibrium | 1951-1960 | 67    | 22    | 22     | 0    | 0     | 0     | 0     |
|                                                                                         | 1961-1970 | 206   | 11    | 10     | 1    | 0     | 0     | 0     |
|                                                                                         | 1971-1980 | 408   | 13    | 9      | 4    | 0     | 0     | 0     |
|                                                                                         | 1981-1990 | 327   | 13    | 8      | 3    | 1     | 1     | 0     |
|                                                                                         | 1991-2000 | 286   | 15    | 5      | 6    | 4     | 0     | 0     |
|                                                                                         | 2001-2005 | 95    | 26    | 6      | 4    | 15    | 0     | 1     |
|                                                                                         | All Years | 1,389 | 15    | 8      | 4    | 2     | 0     | 0     |
| 9. International Economics:<br>trade, integration                                       | 1951-1960 | 9     | 0     | 0      | 0    | 0     | 0     | 0     |
|                                                                                         | 1961-1970 | 45    | 11    | 9      | 2    | 0     | 0     | 0     |
|                                                                                         | 1971-1980 | 52    | 21    | 19     | 2    | 0     | 0     | 0     |
|                                                                                         | 1981-1990 | 131   | 17    | 13     | 3    | 1     | 0     | 0     |
|                                                                                         | 1991-2000 | 157   | 20    | 6      | 10   | 1     | 3     | 1     |
|                                                                                         | 2001-2005 | 61    | 16    | 2      | 10   | 3     | 2     | 0     |
|                                                                                         | All Years | 455   | 17    | 9      | 6    | 1     | 1     | 0     |
| 10. Industrial Organization &<br>Market Structure                                       | 1951-1960 | 39    | 18    | 18     | 0    | 0     | 0     | 0     |
|                                                                                         | 1961-1970 | 75    | 23    | 23     | 0    | 0     | 0     | 0     |
|                                                                                         | 1971-1980 | 48    | 8     | 6      | 2    | 0     | 0     | 0     |
|                                                                                         | 1981-1990 | 29    | 31    | 24     | 3    | 3     | 0     | 0     |
|                                                                                         | 1991-2000 | 88    | 28    | 9      | 13   | 0     | 7     | 0     |
|                                                                                         | 2001-2005 | 46    | 37    | 13     | 13   | 2     | 9     | 0     |
|                                                                                         | All Years | 325   | 24    | 15     | 6    | 1     | 3     | 0     |

**Table 5. Number of Dissertations and Publication Rates by AEA Code-Continued.**

| AEA Code                  | Period    | Num. | % Pub | % AJAE | % #2 | % #3 | % #4 | % #5 |
|---------------------------|-----------|------|-------|--------|------|------|------|------|
| 11. General:              | 1951-1960 | 12   | 17%   | 17%    | 0%   | 0%   | 0%   | 0%   |
| teaching, extension,      | 1961-1970 | 8    | 38%   | 38%    | 0%   | 0%   | 0%   | 0%   |
| methodology,              | 1971-1980 | 22   | 23%   | 18%    | 5%   | 0%   | 0%   | 0%   |
| professional              | 1981-1990 | 19   | 11%   | 5%     | 5%   | 0%   | 0%   | 0%   |
| development               | 1991-2000 | 54   | 13%   | 4%     | 7%   | 0%   | 0%   | 2%   |
|                           | 2001-2005 | 26   | 15%   | 8%     | 8%   | 0%   | 0%   | 0%   |
|                           | All Years | 141  | 16%   | 10%    | 6%   | 0%   | 0%   | 1%   |
| 12. Research Methods:     | 1951-1960 | 8    | 50%   | 50%    | 0%   | 0%   | 0%   | 0%   |
| statistics, econometrics, | 1961-1970 | 15   | 27%   | 27%    | 0%   | 0%   | 0%   | 0%   |
| mathematical              | 1971-1980 | 34   | 18%   | 12%    | 6%   | 0%   | 0%   | 0%   |
| programming               | 1981-1990 | 19   | 42%   | 32%    | 11%  | 0%   | 0%   | 0%   |
|                           | 1991-2000 | 13   | 15%   | 8%     | 8%   | 0%   | 0%   | 0%   |
|                           | 2001-2005 | 0    | 0%    | 0%     | 0%   | 0%   | 0%   | 0%   |
|                           | All Years | 89   | 27%   | 21%    | 6%   | 0%   | 0%   | 0%   |

Finally, Table 6 shows the number of dissertations produced at each of the 41 schools by AEA code (1951-2005). One can see the impact that some programs have on particular segments. Berkeley, Cornell, Iowa State, Michigan State, and Wisconsin have produced a large number of our profession's economic development economists (AEA code #8). A large number of dissertations in the area of natural resources (AEA code #5) have come from Cal. Berkeley, Oregon State, Wisconsin and Cal. Davis. Iowa State, Michigan State, Minnesota and Purdue have been responsible for producing a good many of the profession's production economists (AEA code #2). It is also useful to look at programs in terms of size. Massachusetts would be considered a small program based upon the number of dissertations. However, one can see that its main focus for its dissertations is clearly in the areas of natural resources (#5) and environmental economics (#6).

**Table 6. Number of Dissertations by School and AEA Code, 1951-2005.**

| AEA/School          | 1  | 2   | 3  | 4  | 5  | 6  | 7  | 8   | 9  | 10 | 11 | 12 |
|---------------------|----|-----|----|----|----|----|----|-----|----|----|----|----|
| 1. Arizona          | 0  | 6   | 1  | 1  | 6  | 1  | 1  | 2   | 0  | 0  | 2  | 0  |
| 2. Auburn           | 2  | 7   | 8  | 3  | 11 | 3  | 2  | 4   | 5  | 1  | 0  | 0  |
| 3. Cal. Berkeley    | 12 | 45  | 56 | 46 | 94 | 34 | 36 | 102 | 19 | 22 | 6  | 7  |
| 4. Cal. Davis       | 14 | 43  | 30 | 21 | 48 | 17 | 18 | 24  | 17 | 9  | 3  | 4  |
| 5. Clemson          | 6  | 7   | 13 | 6  | 13 | 7  | 7  | 16  | 1  | 1  | 3  | 1  |
| 6. Colo. St.        | 1  | 9   | 8  | 6  | 23 | 16 | 1  | 23  | 6  | 1  | 3  | 0  |
| 7. Connecticut      | 2  | 7   | 6  | 5  | 3  | 8  | 9  | 6   | 3  | 8  | 2  | 0  |
| 8. Cornell          | 40 | 36  | 58 | 52 | 43 | 20 | 41 | 121 | 18 | 18 | 2  | 5  |
| 9. Florida          | 20 | 28  | 28 | 11 | 15 | 2  | 11 | 28  | 20 | 13 | 3  | 1  |
| 10. Georgia         | 4  | 17  | 16 | 6  | 8  | 8  | 5  | 3   | 3  | 2  | 1  | 1  |
| 11. Hawaii          | 5  | 26  | 20 | 8  | 24 | 0  | 6  | 30  | 4  | 5  | 0  | 1  |
| 12. Illinois        | 6  | 65  | 84 | 95 | 29 | 19 | 22 | 50  | 26 | 25 | 3  | 9  |
| 13. Iowa St.        | 24 | 119 | 72 | 70 | 29 | 23 | 45 | 84  | 40 | 12 | 17 | 3  |
| 14. Kansas St.      | 9  | 35  | 40 | 23 | 13 | 2  | 18 | 69  | 14 | 5  | 3  | 4  |
| 15. Kentucky        | 7  | 29  | 24 | 10 | 5  | 3  | 16 | 16  | 11 | 3  | 4  | 0  |
| 16. Louisiana St.   | 2  | 11  | 16 | 8  | 1  | 4  | 3  | 9   | 6  | 1  | 1  | 0  |
| 17. Maryland        | 5  | 16  | 16 | 7  | 24 | 12 | 23 | 21  | 7  | 4  | 2  | 2  |
| 18. Massachusetts   | 1  | 0   | 3  | 1  | 10 | 11 | 2  | 3   | 1  | 4  | 0  | 2  |
| 19. Michigan St.    | 28 | 71  | 66 | 54 | 24 | 16 | 47 | 132 | 19 | 26 | 12 | 8  |
| 20. Minnesota       | 19 | 86  | 50 | 67 | 35 | 14 | 40 | 68  | 22 | 25 | 9  | 1  |
| 21. Mississippi St. | 1  | 28  | 27 | 3  | 7  | 4  | 6  | 10  | 13 | 2  | 0  | 0  |

Continued.

**Table 6. Number of Dissertations by School and AEA Code, 1951-2005-Continued.**

| AEA/School           | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8   | 9  | 10 | 11 | 12 |
|----------------------|----|----|----|----|----|----|----|-----|----|----|----|----|
| 22. Missouri         | 10 | 37 | 38 | 25 | 15 | 8  | 17 | 33  | 7  | 8  | 1  | 2  |
| 23. Montana St.      | 0  | 1  | 2  | 2  | 4  | 1  | 0  | 1   | 0  | 0  | 1  | 0  |
| 24. Nebraska         | 2  | 19 | 18 | 12 | 15 | 5  | 7  | 5   | 10 | 4  | 3  | 1  |
| 25. No. Carolina St. | 24 | 41 | 50 | 43 | 39 | 22 | 37 | 32  | 37 | 16 | 9  | 3  |
| 26. Ohio St.         | 36 | 24 | 62 | 85 | 28 | 18 | 23 | 69  | 21 | 18 | 3  | 5  |
| 27. Oklahoma St.     | 2  | 54 | 47 | 16 | 30 | 7  | 28 | 55  | 11 | 6  | 4  | 2  |
| 28. Oregon St.       | 2  | 32 | 26 | 15 | 62 | 15 | 19 | 19  | 9  | 8  | 1  | 9  |
| 29. Penn St.         | 8  | 25 | 28 | 18 | 10 | 14 | 6  | 30  | 4  | 6  | 2  | 0  |
| 30. Purdue           | 18 | 71 | 59 | 98 | 16 | 9  | 35 | 65  | 33 | 25 | 9  | 11 |
| 31. Rhode Island     | 4  | 1  | 5  | 1  | 32 | 8  | 1  | 5   | 3  | 0  | 0  | 0  |
| 32. South Dakota St. | 0  | 0  | 1  | 0  | 0  | 0  | 2  | 0   | 0  | 0  | 0  | 0  |
| 33. Tennessee        | 7  | 23 | 9  | 8  | 7  | 6  | 5  | 26  | 2  | 0  | 1  | 0  |
| 34. Texas A&M        | 17 | 60 | 53 | 41 | 40 | 8  | 32 | 23  | 16 | 6  | 11 | 2  |
| 35. Texas Tech       | 0  | 7  | 9  | 0  | 3  | 0  | 3  | 5   | 2  | 0  | 0  | 0  |
| 36. Utah St.         | 0  | 5  | 4  | 5  | 10 | 5  | 2  | 10  | 12 | 1  | 3  | 0  |
| 37. Virginia Tech.   | 3  | 11 | 13 | 10 | 6  | 14 | 14 | 21  | 5  | 2  | 3  | 1  |
| 38. Washington St.   | 9  | 31 | 40 | 14 | 39 | 5  | 16 | 21  | 8  | 2  | 2  | 1  |
| 39. West Virginia    | 0  | 1  | 3  | 0  | 7  | 3  | 0  | 1   | 2  | 2  | 1  | 0  |
| 40. Wisconsin        | 11 | 34 | 49 | 70 | 57 | 13 | 38 | 146 | 18 | 34 | 11 | 3  |
| 41. Wyoming          | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 1   | 0  | 0  | 0  | 0  |

References

- Boland, M.A. and J.M. Crespi. "From Farm Management to Agricultural and Applied Economics: The Expansion of a Professional Society as Seen through a Census of Its Dissertations from 1951 to 2005." *Applied Economics Perspectives and Policy* 32, No. 3 (Autumn 2010): 456-471.

## **Appendix**

### **AEA specialization categories used from 1991 to 2005**

- 1) Consumer Demand
- 2) Production Economics and Supply
- 3) Agricultural Products: price analysis, subsector, models, marketing, futures
- 4) Agricultural Inputs: land, labor, finance
- 5) Natural Resources: energy, conservation, land use, water, forestry, fisheries
- 6) Environmental Economics: pollution, regulation, nonmarket valuation
- 7) Agricultural and Food Policy: regulation, taxation, welfare
- 8) Economic Development: developing economies, aid, regional, general equilibrium
- 9) International Economics: trade, integration
- 10) Industrial Organization and Market Structure
- 11) General: teaching, extension, research, methodology, professional
- 12) Research Methods: statistics, econometrics, mathematical programming

### **AEA specialization categories from 1987-1990 and their corresponding match to the 1991-2005 categories**

- 1) Agricultural Products; Demand, Supply, Prices; Food, Consumer, and Household Economics
- 2) Production Economics and Management; Risk and Uncertainty
- 4) Agricultural Inputs; Capital, Agricultural Finance; Land Appraisal and Prices; Labor; Human Capital
- 5) National Resources; Energy; Conservation; Environment; Wastes; Land Use and Tenure; Recreation; Water; Fisheries
- 7) Public Issues and Policy; Agricultural Regulations; Taxation; Inflation, Welfare Programs; Poverty; Regional and Community Development; Education; Health
- 8) Economic Growth and Development; Planning Models, Fluctuations; Technological Change;
- 9) International Economics; Trade; Integration; Business; Aid  
Aggregate Production Capacity; Regional and Community; Migration
- 10) Marketing; Agribusiness; Cooperatives; Transportation; Industry Organization; Vertical Coordination
- 11) Agricultural Economics General; Curricula and Teaching; Extension, Profession
- 12) Research Methodology; Modeling; Econometrics; Mathematical Programming; Agricultural Data; Statistics

### **AEA specialization categories from 1951-1987 and their corresponding match to the 1991-2005 categories**

- 1) Food and Consumer Economics
- 2) Production Economics and Management; Technological Change
- 2, 3) Agricultural Products: Demand, Supply, Prices
- 3) Marketing and Location; Transportation
- 4) Agricultural Finance, Capital, Credit; Agricultural Labor; Rural Manpower; Human Resource Development; Land Tenure; Taxes, Taxation, and Rural Appraisal
- 5) Fertility; Fisheries Economics; Land Economics; Natural Resource Economics; Pesticides
- 6) Energy; Environmental Economics; Conservation
- 7) Public Policy
- 8) Agricultural Income; Rural Poverty; Economic Development, Growth, and Planning; Migration; Regional Economics; Regional, Rural, and Community Development; Sector and Subsector Analysis; Socioeconomic Research
- 9) Trade
- 10) Cooperatives and Cooperation; Industrial Organization; Market Structure
- 11) Agricultural Economics, General Economics; Institutions, Private and Public
- 12) Agricultural Data; Research Methodology