2007-2011 Plan of Work Summary

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This updated publication revises FTE data because of corrections made by States to their FTE data, and also revises Merit Review data inconsistencies. Other data updates are negligible, but more accurate.

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2007-2011 Plan of Work Summary Document

Overview and Background Information

The Cooperative State Research, Education and Extension Service (CSREES) requires a plan of work and annual report on the four major research and extension formula funds; Hatch, Evans-Allen, Smith-Lever 3b&c, and 1890 Extension Programs. Recently, CSREES substantially revised the format and means of submission of these reports, restructuring them using an outcome-based, logic model design and collecting them electronically via the internet using a database system. The purpose of this revision was not only to reduce the burden imposed on collecting the Plan of Work (POW) and Annual Report of Accomplishments (AR), but to make the information collected usable for CSREES program leadership and portfolio evaluation. An additional benefit of the revision is that the information collected can be easily analyzed and assembled into a national report on the POW and AR for these formula funded programs.

This summary report is the first such national report based upon the first POW submitted using the new format. We believe this report not only opens a window onto the important issues the States plan to address over the next five years, but starts to give the CSREES – Land-Grant partnership information to examine the questions of balance and direction as a unified system. This report, based only on the 2007-2011 POW, starts to open the window and documents the projected allocation effort among planned programs, general topic areas classified by Knowledge Areas (KAs), and agency portfolios of programs as reported through projected effort. Next year, with the receipt of the first AR under in the new format documenting the outputs and outcomes of the research and extension funded programs, the window should be flung wide open revealing not only the future allocation of efforts, but meaningful results from previous efforts system-wide.

The Agricultural Research, Extension, and Education Reform Act of 1998 (AREERA) set forth the requirements for the POW that began with the Fiscal Year 2000. A renewed federal planning and accountability emphasis provided the environment for upgrades and improvement to that initial 2000 – 2006 POW cycle, which was submitted as an unstructured text-based system.

Other benefits of the new POW system includes giving States the ability to scan the system to learn what other states are doing to address similar issues, how other States are evaluating their efforts, and what performance indicators are being used, etc. Also, this new system will increase our ability to respond to external reporting requirements on outcomes and proper use of funds and provide agency managers with program results feedback.

We have received the first 5-Year Plan of Work under this new format and have completed the review and present a summary of the data in this document.

A completed and approved Plan of Work triggers the release of funds to institutions for the Fiscal Year beginning October 1 each year. A complete Plan of Work includes an Executive Summary, Stakeholder Input documentation, a description of the Merit and Peer Review Processes, Planned Programs, and Multi-state and Integrated Research and Extension financial data to satisfy sections 105 and 204 of AREERA.

Quick Statistics on State Submissions

Eighty-five (85) POWs were received from the 150 Land-Grant Institutions which receive Federal formula funds subject to a Plan of Work. This shows more consolidation of plans over the previous POW cycle where 93 POWs were initially submitted. Fifty (50) POWs were combined submissions (one or more institutional entities with a State combining into one submission). Of those 50 POWs, 48 were combined research and extension plans, one was a combined 1862/1890 institutions extension plan, and the other a combined 1862/1890 institutions research plan. The other thirty-five (35) POWs were single institutional entity submissions.

During the review process, only six POWs were returned to the submitting State for editing and resubmission.

All 85 Plans of Work have been subsequently approved by CSREES. One Hundred percent of Plans of Work were returned approved to the State institutions on time (within 90 days of due date or when received). The average number of days for CSREES approval was 70 days compared with 79 days under the previous POW system.

Definitions

State Planning Unit – One or more institutional entities that make up a single State Plan of Work. This could be any combination of 1862 and 1890 State Land Grant University Research and/or Extension entity in a single State.

Portfolio –A portfolio is a set of continuing, CSREES-funded activities broadly focused on a current and/or emerging issue of societal importance and serves as the foundation for agency planning and evaluation.

Knowledge Areas (KAs) – A subject content classification scheme for use in characterizing federally-funded, CSREES-administered research, education, and extension activities for the purpose of enabling budget and accountability reporting and integration.

Planned Programs

The Planned Programs tell the story of where each State plans to put their resources over the period of the 5-Year Plan of Work. This leads us to a national aggregation of data where possible.

There were a total of 1018 State-defined Planned Programs included in the 85 Plan of Work submission received. The range was between 1 to 76 Planned Programs submitted for each Plan of Work. The median was 9 Planned Programs. See *Appendix C* for a complete list of Planned Programs by State plan.

Full-Time Equivalents (FTEs (inputs))

FTEs are the basis for determining level of future effort in the POW. One FTE is equivalent to approximately 2000 hours of effort (the approximate number of hours a full-time employee works in a year). The table below shows the number of FTEs planned to be allocated to Planned Programs in FY 2007 amongst the four formula funding lines (rounded to the nearest whole number).

Funding Line	Number of FTEs	Percentage of FTEs
Hatch – 1862 Research	6,496	38.4%
Smith-Lever – 1862 Extension	9,397	55.5%
Evans-Allen – 1890 Research	434	2.6%
1890 Extension	593	3.5%
Total FTEs	16,921	100.0%

The table below shows the percentage of FTEs which are planned to be expended on each of the designated CSREES Portfolios for Research and Extension.

Percentage of FTEs by CSREES Portfolio

Portfolio	1862 Research	1862 Extension	1890 Research	1890 Extension	Totals
International Economic Development	0.4%	0.2%	0.2%	0.0%	0.3%
Agricultural Structures and Farm Management	3.2%	3.3%	3.7%	4.5%	3.3%
Agricultural Markets & Trade	2.4%	2.7%	3.7%	3.1%	2.6%
Food Processing and Bio-based Products	6.1%	3.8%	5.3%	2.9%	4.7%
Plant Production	19.6%	9.5%	14.1%	7.2%	13.4%
Animal Production	12.9%	6.6%	17.9%	6.5%	9.3%
Economic and Business Decision-Making	2.5%	5.9%	3.2%	9.5%	4.7%
Quality of Life in Rural Areas	5.1%	34.5%	9.1%	42.1%	22.8%
Food Safety	2.8%	2.4%	4.4%	1.6%	2.6%
Plant Protection	16.3%	7.6%	10.2%	4.9%	10.9%
Animal Protection	5.4%	2.5%	3.3%	1.9%	3.6%
Nutrition and Healthier Food Choices	3.6%	6.9%	7.3%	7.1%	5.7%
Forests and Rangelands	5.7%	3.4%	3.3%	2.2%	4.2%
Soil, Air, and Water	14.0%	10.7%	14.1%	6.5%	11.9%
Totals	100.0%	100.0%	100.0%	100.0%	100.0%

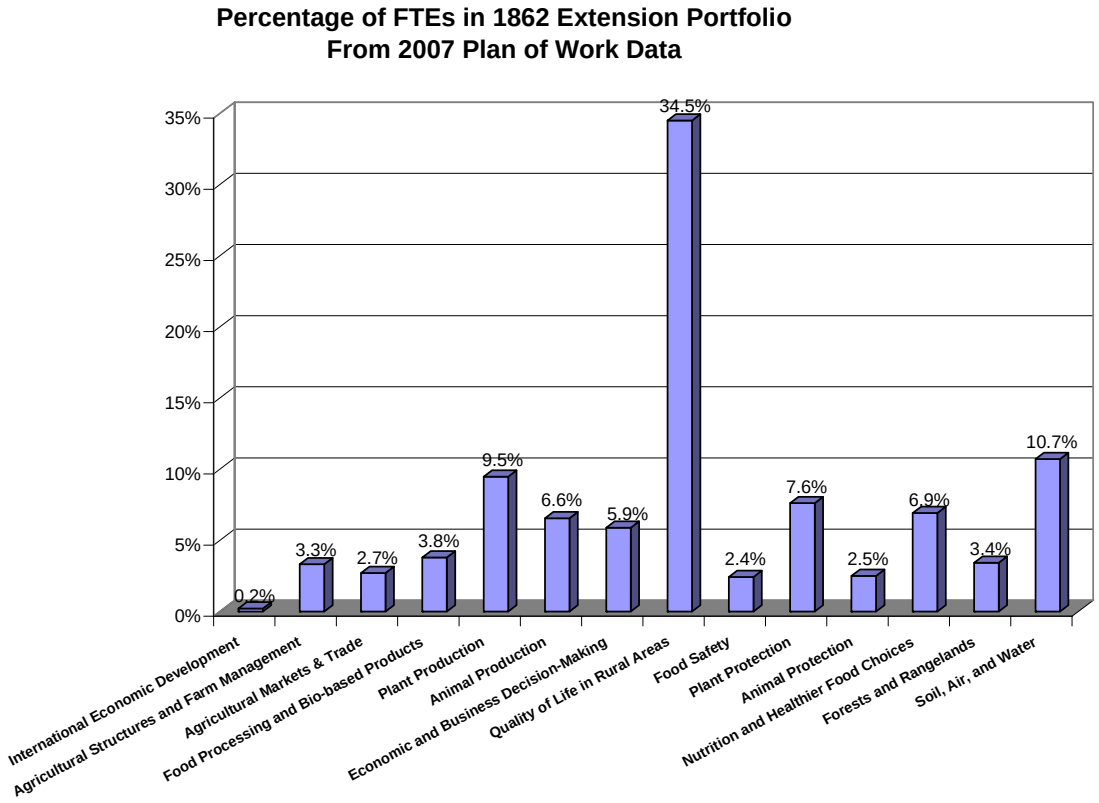
Some patterns can be found in the table above. Extension plans to allocate a very high percentage of its FTE resources on the portfolio "Quality of Life in Rural Areas" (34% for 1862 Extension and 42% for 1890 Extension). This portfolio deals with improving the quality of life and well-being of rural American people in the areas of health, safety, biosecurity, resource management, technology and sociology, human development and family well-being, families and youth at risk, 4-H youth development, housing and indoor environments, and community planning and development. And within this portfolio, the greatest effort is being directed toward Youth Development. Although this portfolio contains eight KAs, the Youth Development KA is responsible for approximately half the FTEs for Extension within the portfolio. Also notable for

Extension is that the "Soil, Air, and Water" portfolio is second in terms of allocation of FTE resources for 1862 institutions, whereas for 1890 institutions the second most is planned to be allocated toward the "Economic and Business Decision-Making" portfolio.

On the other hand, Research plans to use a higher percentage of its FTE resources spread out amongst the "Plant production", "Animal production", "Plant protection", and "Soil, air, and water" portfolios.

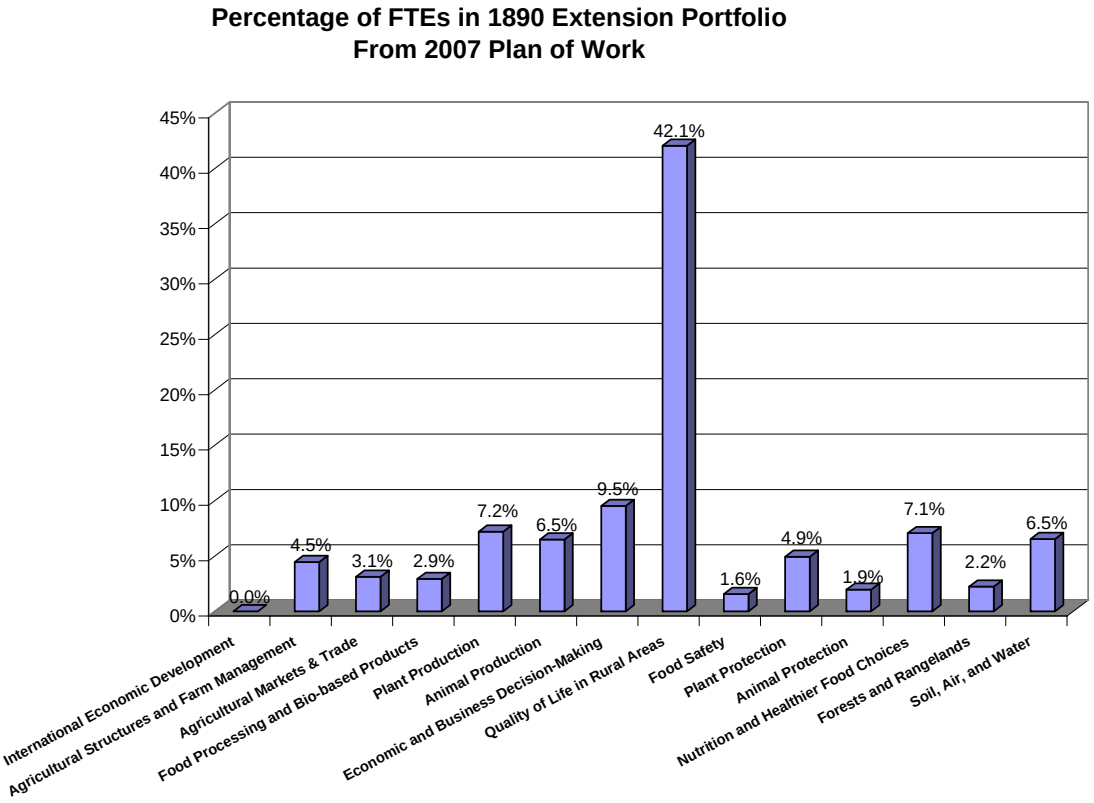
The bar graphs below help to illustrate these and other points.

Extension FTEs



The chart above illustrates the substantial percentage of FTEs that are planned to be allocated to the "Quality of Life in Rural Areas" portfolio of programs. If we were to disassociate the KA 806 – Youth Development from that portfolio, the portfolio would be at 18 percent and since the Youth Development KA makes up 16 percent of the total 1862 Extension portfolio (see page 69 in Appendix D for this bar chart). Other than Youth Development, the KAs that make up this portfolio include, Human Development and Well-being, Individual and Family Resource Management, Healthy Lifestyle, Sociological and Technological Change Affecting Individuals, Families, and Communities, Community Institutions, Health, and Social Services, Consumer Economics, and Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures Note that "Soil, Air, and Water" is second and "Plant Production" and "Plan Protection" are a close third and fourth, followed closely by "Nutrition and Healthier Food Choices" and "Animal Production."

The planned allocated FTEs for "Quality of Life in Rural Areas" and KA 806 – Youth Development is even more dramatic for the 1890 Extension portfolio as seen in the chart below.

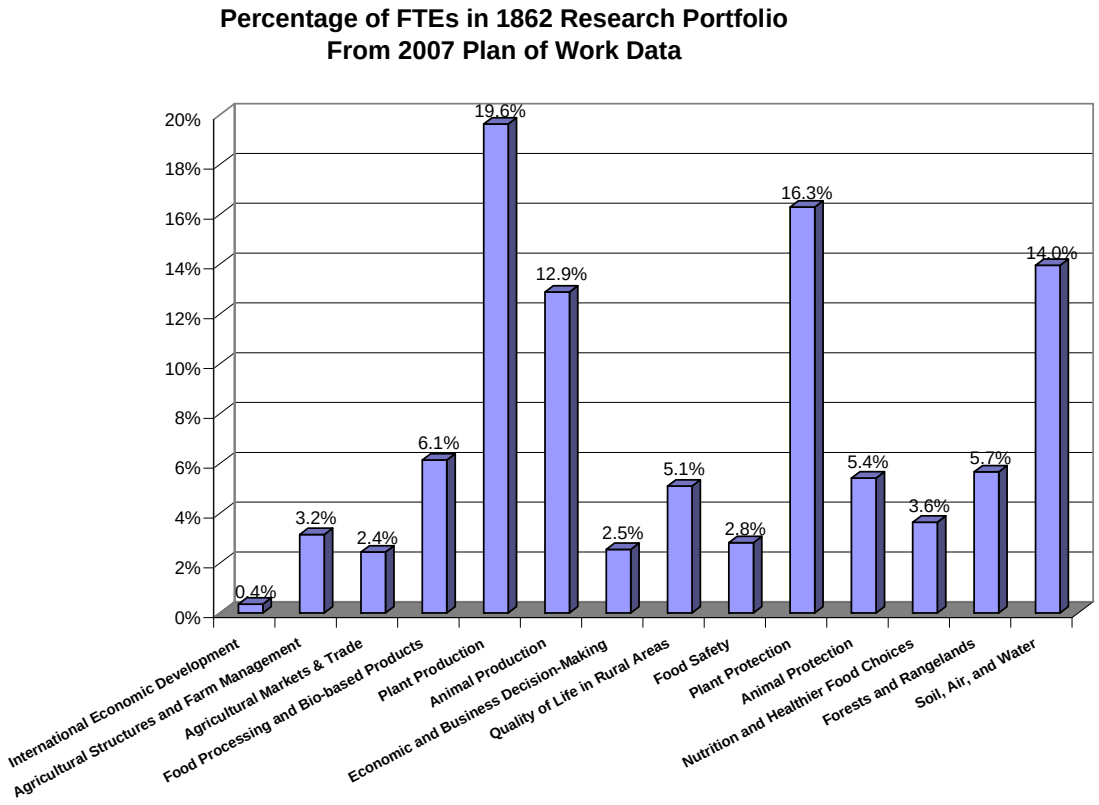


The percentage of FTEs being planned to be allocated to the Quality of Life in Rural Areas within the 1890 Extension portfolio is over 42 percent. Again, if we were to disassociate the KA 806 – Youth Development from that portfolio, the portfolio would be at 25 percent and since the Youth Development KA makes up 17 percent of the total 1890 Extension portfolio, it would stand out significantly on its own (see page 75 in Appendix D for this bar chart).

Also, note that in contrast to the 1862 Extension portfolio, the 1890 Extension plans to allocate a greater percentage of its FTEs to the "Economics and Business Decision-Making" portfolio as its next highest percentage.

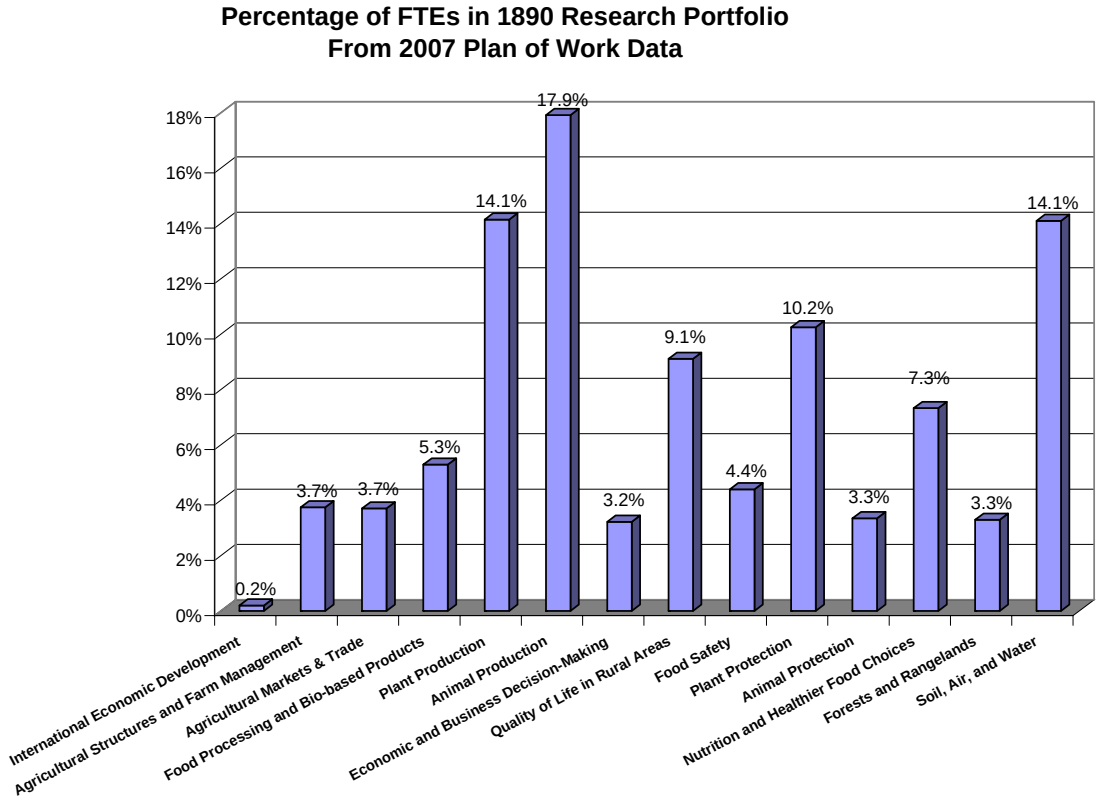
Research FTEs

The next two charts show how FTEs are being planned to be allocated for the 1862 research portfolio and 1890 research portfolio. Although there are differences, they both will allocate most of their FTEs to the same four portfolios (although in different order); "Plant Production", "Plant Protection", "Soil, Air and Water", and "Animal Production."



The 1862 Research Portfolio chart above shows that they will allocate the most FTEs to the "Plant Production" and "Plant Protection" portfolios, followed closely by the "Soil, Air, and Water" and "Animal Production" portfolios. And the rest of the portfolios are fairly balanced except for the "International Economics Development" portfolio.

However, note that on the 1890 Research Portfolio chart below that FTEs are being allocated more to the "Animal Production" portfolio than any other portfolio. This is followed closely by the "Plant Production" and "Soil, Air, and Water" portfolios, then the "Plan Protection" portfolio. Also note there is a significant percentage of effort given in the 1890 Research Portfolio to the "Quality of Life in Rural Areas" portfolio. And the rest of the portfolios are again fairly balanced except for the "International Economics Development" portfolio.



Number and Percentage of FTEs by Knowledge Area

As seen in the table below, the highest percentage of effort in the State Plans of Work is directed toward youth development. The top fifteen Knowledge Areas by level of planned effort is seen in the table below.

Top Fifteen Knowledge Areas by Level of Planned Effort

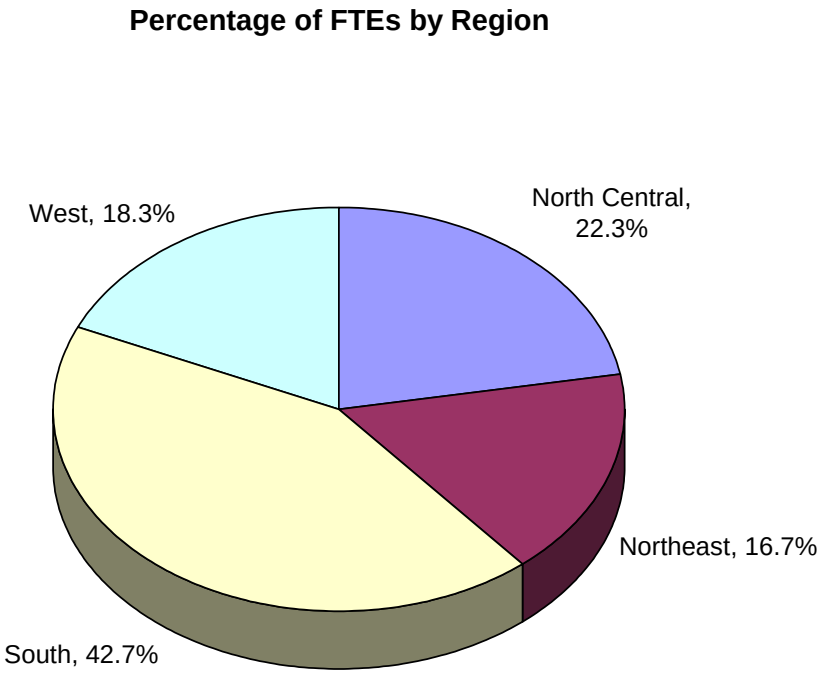
KA Code	KA Text	Totals	Percentages
806	Youth Development	1669.5	9.87%
205	Plant Management Systems	981.4	5.80%
802	Human Development and Family Well-Being	685.0	4.05%
703	Nutrition Education and Behavior	594.9	3.52%
307	Animal Management Systems	541.4	3.20%
216	Integrated Pest Management Systems	528.3	3.12%
212	Pathogens and Nematodes Affecting Plants	527.8	3.12%
102	Soil, Plant, Water, Nutrient Relationships	511.7	3.02%
801	Individual and Family Resource Management	460.6	2.72%
601	Economics of Agricultural Production and Farm Management	419.6	2.48%
201	Plant Genome, Genetics, and Genetic Mechanisms	395.4	2.34%
211	Insects, Mites, and Other Arthropods Affecting Plants	377.1	2.23%
608	Community Resource Planning and Development	358.6	2.12%
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	346.9	2.05%
112	Watershed Protection and Management	337.8	2.00%

Of the 84 KAs which can be used for classification of planned programs, over 50 percent of the FTEs are allocated to these top fifteen KAs. Also, all other KAs have less than 2 percent level of effort to the planned programs.

A full breakdown of FTEs by Knowledge Areas and CSREES Portfolios with tables and charts are included in *Appendix D*.

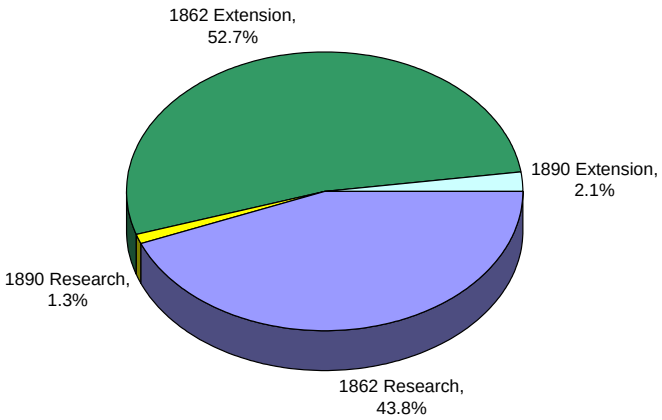
FTEs by Region and Function for Planned Programs

The pie charts below show how FTEs are planned to be distributed amongst the four regions and research and extension. The first one shows that the Southern Region accounts for approximately 42 percent of the nation's effort to formula funded programs. Furthermore, 28 percent FTEs are in Southern Region Extension planned programs (see page 80 in Appendix D for further breakdown of this pie chart).

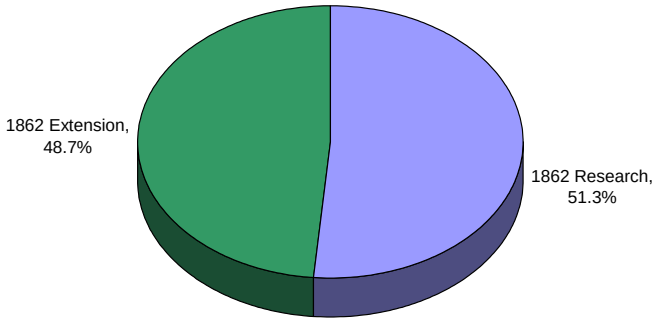


The four pie charts below break down within each region by research and extension funded lines. Note that within the regions, the Western Region is the only one where research FTEs outnumber the extension FTEs.

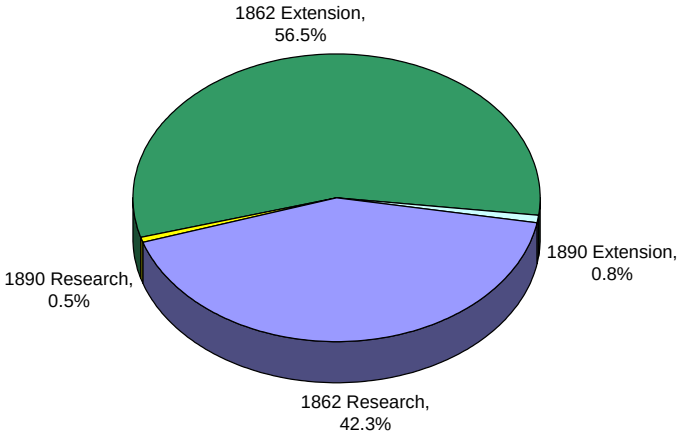
Northeast Region FTEs



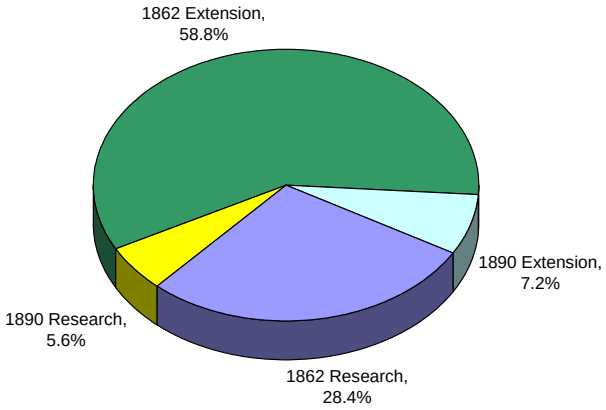
Western Region FTEs



North Central Region FTEs



Southern Region FTEs



Expected Activities and Output

Extension Direct and Indirect Methods

Of the 1018 State-defined Planned Programs, over 70 percent of them will deliver Extension programs via education classes and workshops, and over 60 percent plan to use one on one intervention.

Over 70 percent of the State-defined Planned Programs indirectly deliver Extension information and education via newsletters and web sites.

A full breakdown of Extension Direct and Indirect Methods with tables and charts are included in *Appendix E*.

Research Expected Patents Data

The number of expected patents tends to increase slightly each year over the period of the five-year Plan of Work. However, this data will be more meaningful in the Annual Report of Accomplishments.

State Defined Output and Outcome Measures

There are numerous and diverse State-defined output and outcome measures. These need to be analyzed in more detail. The objective of future analysis will be to see which outputs and outcomes can be standardized for future Plans of Work and Annual Reports to allow for aggregation of data on a national level or regional level.

External Factors which affect Outcomes

The environment in which the program exists includes a variety of external factors that interact with and influence the program action. These external factors may have a major influence on the achievement of outcomes. They may affect a variety of things including program implementation, participants and recipients, and the speed and degree to which change affects staffing patterns and resources available. A program is affected by and affects these external factors. In the 2007-2011 Plan of Work the economy was the number one factor chosen in the State-defined Planned Programs. The external factors selected by States in rank order were:

1. Economy
2. Appropriation Changes
3. Natural Disasters
4. Government Regulations
5. Public Policy Changes
6. Competing Public Policy Priorities
7. Competing Programmatic Challenges
8. Population Changes

State Evaluation Studies

Although it was not required, we encouraged and continue to encourage all states to have evaluation planned for their programs at some key times in the life of their planned program. States all want to know if their programs are successful. And so does CSREES. Evaluation undergirds the entire program logic model and should be an integral part of their program plan.

Types of Evaluation Studies to be conducted

Many evaluation studies are planned for the 1018 State-defined Planned Programs in the Plan of Work. During and Before-After evaluations were the most prevalent as over 60 percent of the Planned Programs plan to use those two types. The next two common types of evaluations planned for the State-defined Planned Programs are Retrospective and After-Only evaluations (about 40 percent each).

Data Collection Methodologies to be used

A variety of data collection methodologies are planned to be used in conducting evaluation studies within the State-defined Planned Programs. The most prevalent are the on-site survey (61%), sampling (59%), observation (57%), and the mail survey (47%). The other data collection methods in conducting evaluations were indicated in about 35 percent or less of the Planned Programs.

A full breakdown of types of evaluation studies to be conducted and data collection methodologies to be used with tables and charts are included in *Appendix F*.

Descriptive Data on Compliance Issues

The following are data from the AREERA compliance issues related to Stakeholder Input and the Program and Merit Review processes.

Stakeholder Input

Actions taken to seek stakeholder input that encourage their participation

At least 88 percent of State Planning Units plan to use targeted invitations to various stakeholder groups and individuals, 75 percent plan to use media to announce public meetings and listening sessions, and at least 67 percent plan to survey traditional stakeholder groups and individuals to encourage participation in the stakeholder input process. 44 percent or less use surveys of the general public, or non-traditional groups and individuals.

The process that was used to identify individuals and groups who are stakeholders and collect input from them

Two questions were asked for this item in the Plan of Work

1. Methods Used to Identify Individuals and Groups who are Stakeholders

State planning units most often plan to use advisory committees (95%) to identify individual and groups to give stakeholder input into their programs. Most also plan to use internal and external focus groups (64% each), open listening sessions (69%), needs assessments (64%), and surveys (65%) to identify individuals and groups to give stakeholder input into their programs.

2. Methods Used to Collect Stakeholder Input

The vast majority of State planning units plan to hold meetings of traditional stakeholder groups (95%), and meetings with traditional stakeholder individuals (87%) as a means to collect stakeholder input. In addition, most State planning units plan to survey traditional stakeholder groups (69%), survey traditional stakeholder individuals (64%), open meetings with the general public (64%), meetings with selected individuals from the general public (59%), and meeting specifically with non-traditional groups (56%). Less than 50% of the State planning units plan to collect stakeholder input by doing surveys of the general public, non-traditional individuals, selected individuals from the general public, and non traditional groups; and by conducting meetings with non-traditional individuals.

How the Input will be Considered

The vast majority of State planning units plan to use their gathered stakeholder input to identify emerging issues (95%), and to set priorities (92%). Most will use the stakeholder input to redirect research programs (78%), redirect extension programs (72%), in forming actions plans (73%), in the budget process (67%), and in the staff hiring process (67%).

See *Appendix A* for full descriptive tables and charts for the Stakeholder Input Section.

Program and Merit Review Process

In response to Program and Merit Review processes, 71 percent of State planning units plan to use an Internal University Panel to review program merit, and 65 percent plan to use an Expert Peer Review process. It is important to note that all State Plans with a research component use an Expert Peer Review process as required. Less than 50 percent of State Plans use the following processes:

External University Panels – 38%
External Non-University Panels – 39%
Combined Internal and External University Panels – 33%
Combined Internal and External University and External Non-University Panels – 39%

See *Appendix B* for full descriptive tables and charts for the Program and Merit Review Process.

Summary

CSREES anticipates that this new Plan of Work will reduce burden on the States. We now have the initial 5-Year Plan of Work from all States. Since this is now a rolling 5-year Plan of Work, States will only be tweaking their plans each year to include the new 5th year of the plan. Thus, next year they will add 2012 to their plans and change only what they need to change in their current plan.

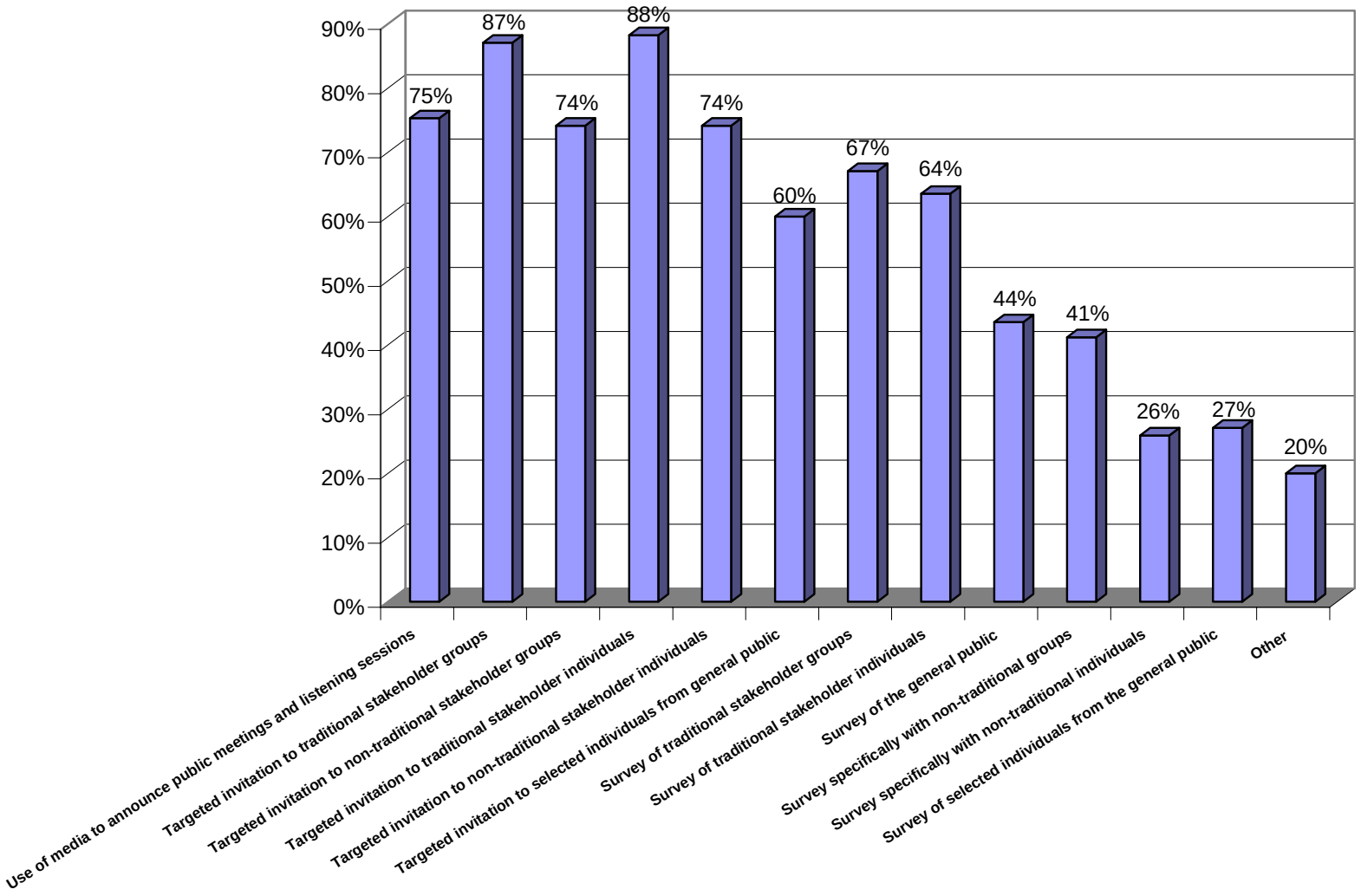
Also, the Annual Report of Accomplishments and Results will be pre-populated with what States included in their Plan of Work. And the Annual Report will contain useful information on outcomes as they relate to Knowledge Areas, funding and FTEs which CSREES has not been able to capture in the previous iterations of the Plan of Work and Annual Report. Thus, once CSREES receives annual reports from the States based on this new Plan of Work, it will provide much needed supporting documentation for Portfolio review, the PART process for OMB, the budget submission, and other external requirements. As part of this documentation, we be able to more efficiently and accurately link the Knowledge Areas to the CSREES and USDA strategic plans, and thus, to our goals and objectives, and to our portfolios.

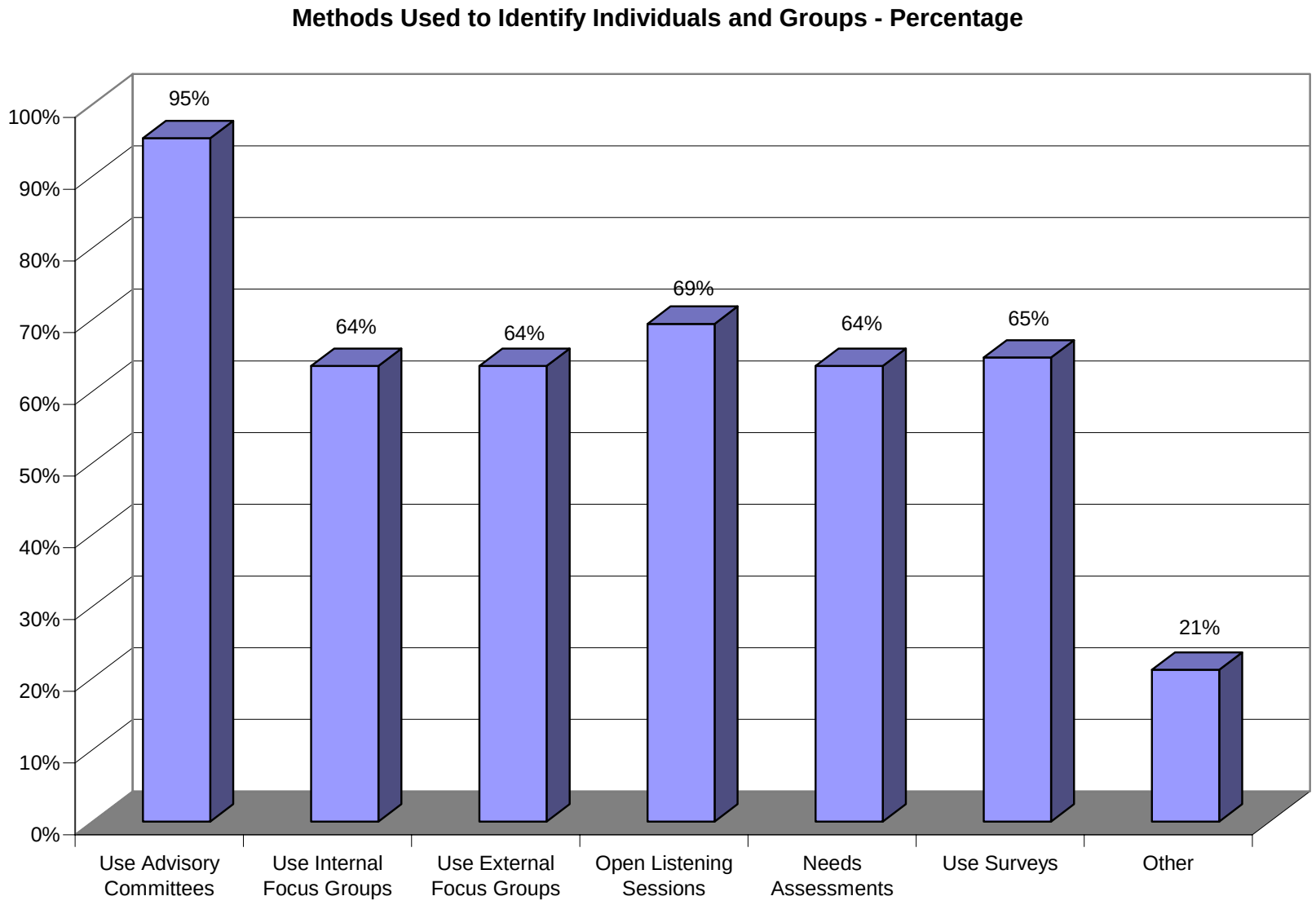
Appendix A – Stakeholder Input Data from the 2007-2011 Plan of Work

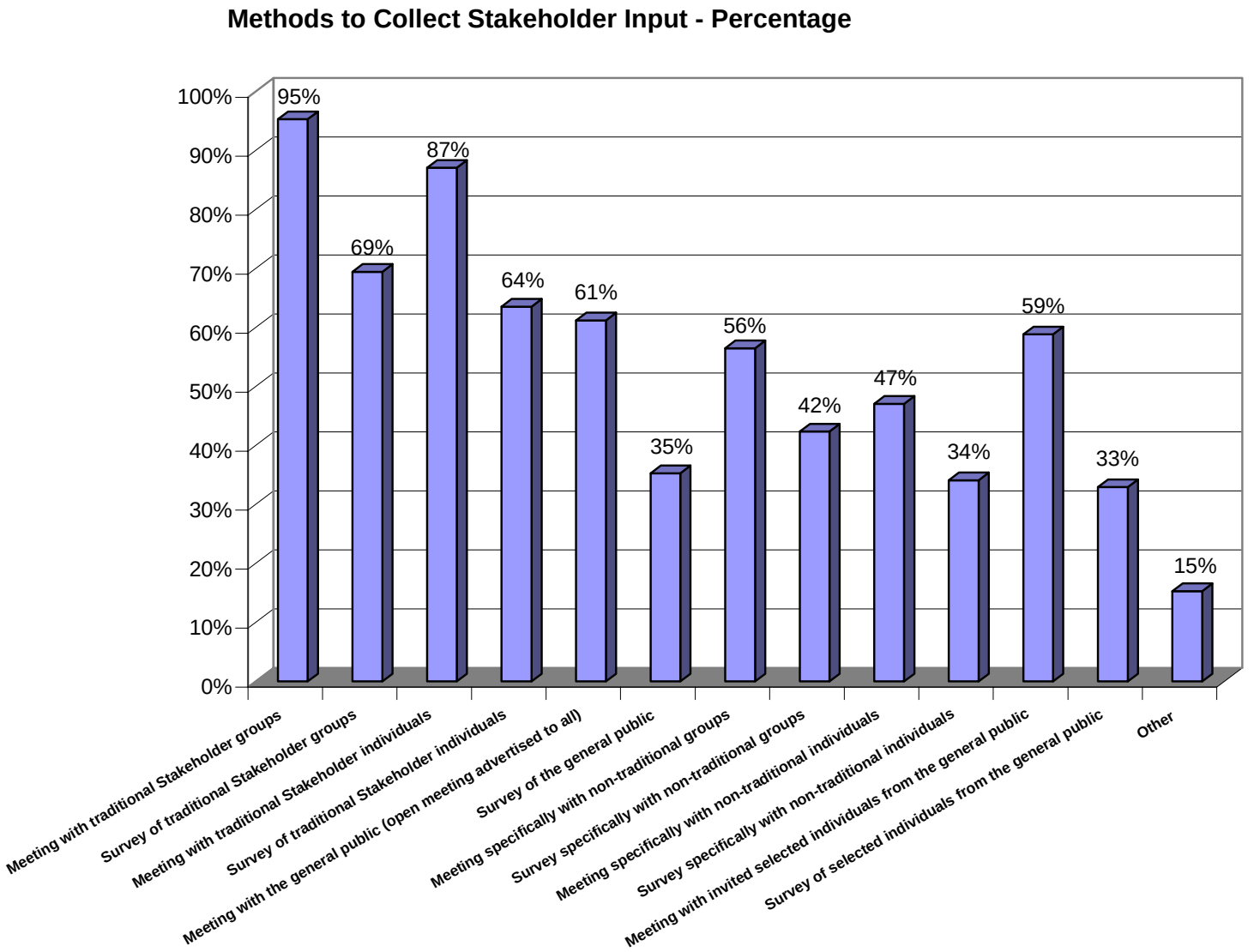
Stakeholder Input Question N=85	Response	Yes	% Yes
Actions taken to seek stakeholder input that encourages their participation	Use of media to announce public meetings and listening sessions	64	75%
	Targeted invitation to traditional stakeholder groups	74	87%
	Targeted invitation to non-traditional stakeholder groups	63	74%
	Targeted invitation to traditional stakeholder individuals	75	88%
	Targeted invitation to non-traditional stakeholder individuals	63	74%
	Targeted invitation to selected individuals from general public	51	60%
	Survey of traditional stakeholder groups	57	67%
	Survey of traditional stakeholder individuals	54	64%
	Survey of the general public	37	44%
	Survey specifically with non-traditional groups	35	41%
	Survey specifically with non-traditional individuals	22	26%
	Survey of selected individuals from the general public	23	27%
	Other	17	20%
Method to identify individuals and groups	Use Advisory Committees	81	95%
	Use Internal Focus Groups	54	64%
	Use External Focus Groups	54	64%
	Open Listening Sessions	59	69%
	Needs Assessments	54	64%
	Use Surveys	55	65%
	Other	18	21%
Methods for collecting Stakeholder Input	Meeting with traditional Stakeholder groups	81	95%
	Survey of traditional Stakeholder groups	59	69%
	Meeting with traditional Stakeholder individuals	74	87%
	Survey of traditional Stakeholder individuals	54	64%
	Meeting with the general public (open meeting advertised to all)	52	61%
	Survey of the general public	30	35%
	Meeting specifically with non-traditional groups	48	56%
	Survey specifically with non-traditional groups	36	42%
	Meeting specifically with non-traditional individuals	40	47%
	Survey specifically with non-traditional individuals	29	34%
	Meeting with invited selected individuals from the general public	50	59%
	Survey of selected individuals from the general public	28	33%
	Other	13	15%

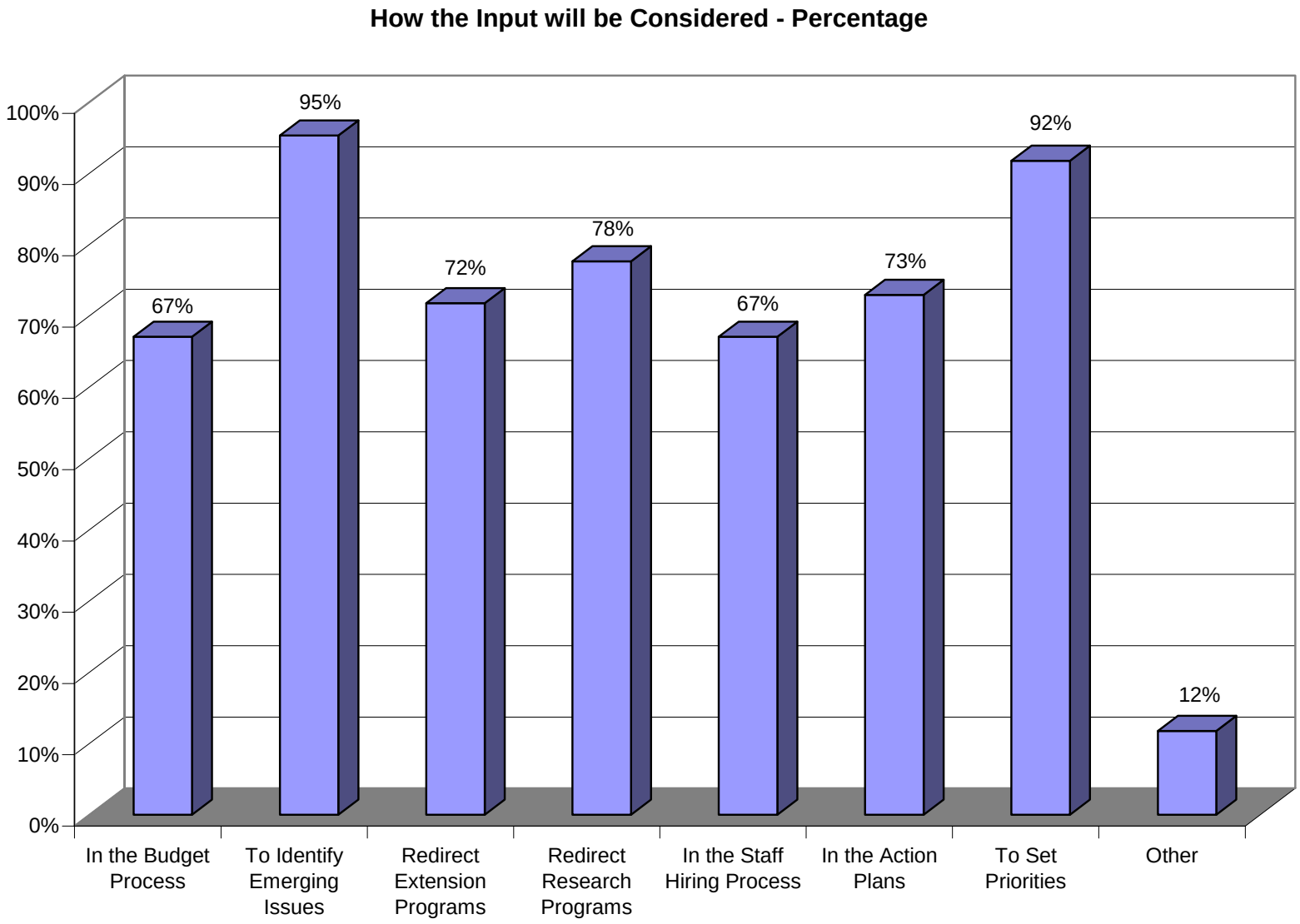
A statement of how the input will be considered	In the Budget Process	57	67%
	To Identify Emerging Issues	81	95%
	Redirect Extension Programs	61	72%
	Redirect Research Programs	66	78%
	In the Staff Hiring Process	57	67%
	In the Action Plans	62	73%
	To Set Priorities	78	92%
	Other	10	12%

Actions Taken to Seek Stakeholder Input that Encourages Their Participation - Percentage



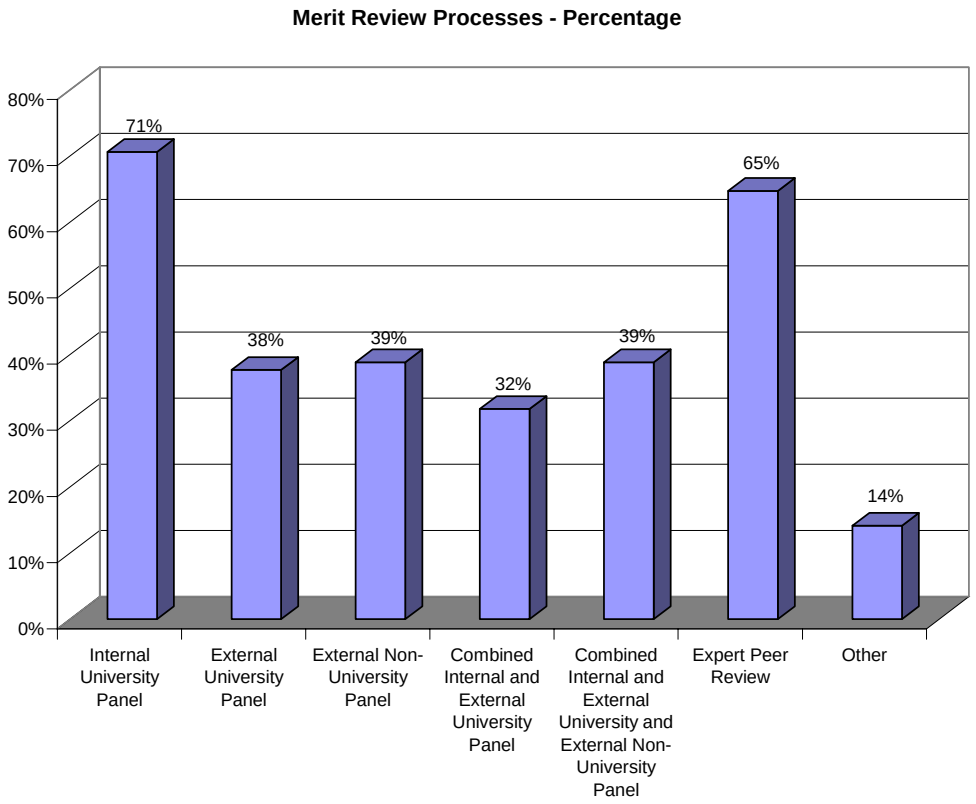

Methods Used to Identify Individuals and Groups - Percentage
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
95%
64%
64%
69%
64%
65%
21%
Use Advisory Committees
Use Internal Focus Groups
Use External Focus Groups
Open Listening Sessions
Needs Assessments
Use Surveys
Other


Methods to Collect Stakeholder Input - Percentage
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
95%
69%
87%
64%
61%
35%
56%
42%
47%
34%
59%
33%
15%
Meeting with traditional Stakeholder groups
Survey of traditional Stakeholder groups
Meeting with traditional Stakeholder individuals
Survey of traditional Stakeholder individuals
Meeting with the general public (open meeting advertised to all)
Survey of the general public
Meeting specifically with non-traditional groups
Survey specifically with non-traditional groups
Meeting specifically with non-traditional individuals
Survey specifically with non-traditional individuals
Meeting with invited selected individuals from the general public
Survey of selected individuals from the general public
Other

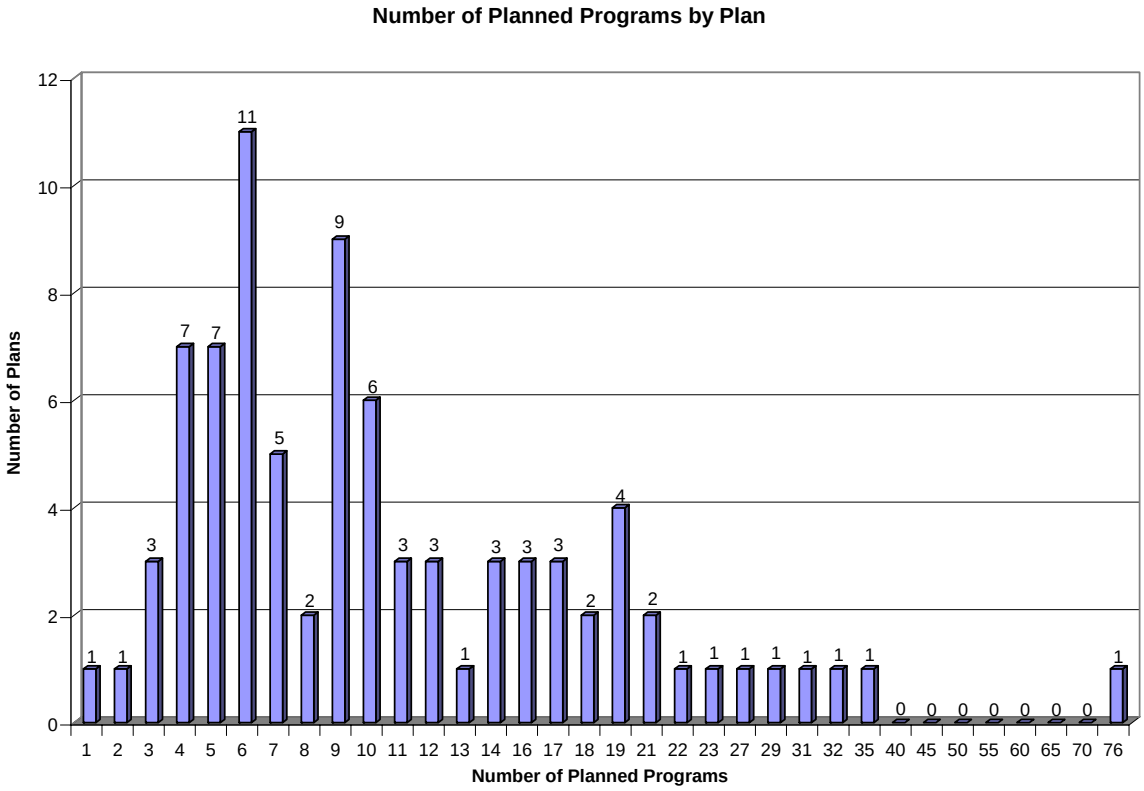

How the Input will be Considered - Percentage
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
67%
95%
72%
78%
67%
73%
92%
12%
In the Budget Process
To Identify Emerging Issues
Redirect Extension Programs
Redirect Research Programs
In the Staff Hiring Process
In the Action Plans
To Set Priorities
Other

Appendix B – Merit and Peer Review Data from the 2007-2011 Plan of Work

Merit Review Response – N=85	Number	Percentage
Internal University Panel	60	71%
External University Panel	32	38%
External Non-University Panel	33	39%
Combined Internal and External University Panel	27	32%
Combined Internal and External University and External Non-University Panel	33	39%
Expert Peer Review	55	65%
Other	12	14%



Appendix C – Planned Programs by State: Data from the 2007-2011 Plan of Work



List of Planned Programs by State Plan

Alabama A&M University and Tuskegee University and Auburn University Combined Research
Maintaining agricultural production systems that are highly competitive in the global economy
Assuring the safety, security and abundance of our food supply
Promoting a healthy, well-nourished population
Sustaining greater harmony between agriculture and the environment
Supporting and enhancing economic opportunities and self-empowerment for families and communities
Alabama A&M University and Auburn University Combined Extension
4-H and Youth Development
Human Nutrition, Diet, and Health
Home Grounds, Gardening, and Home Pests
Forestry, Wildlife, and Natural Resources
Food Safety, Preparation, and Preservation
Family and Child Development
Economic and Community Development
Consumer Science and Personal Financial Management
Commercial Horticulture
Animal Sciences and Forages
Agronomic Crops
Tuskegee University Extension
Alabama Entrepreneurial Initiative (AEI): A Strategy for Workforce Development
Assisting Small-Scale Farmers and Landowners to Manage Change in Agriculture
Enhancing Citizens Capacity to Transform Communities

Integrated Natural Resources and Environmental Education
Promoting Healthy Behavior
Promoting Healthy Living Environments for Underserved and Hard to Reach Audiences - TU/FF NEWS-Fami
University of Alaska Combined Research and Extension
Agriculture and Horticulture
Invasive Weeds, Noxious Plants and Pest Management
Geographic Information - AFES
Youth Development
Sustainable Individuals, Families, and Communities
High Latitude Agriculture- AFES
Natural Resource Stewardship
Management of Ecosystems- AFES
High Latitude Soils- AFES
Natural Resource Use and Allocation- AFES
American Samoa Community College Combined Research and Extension
Small Farms
Ecosystem
Human Health and Well-being
Families, Youth and Communities
University of Arizona Combined Research and Extension
Environment, Water, Land and Natural Resources
Plant Sciences
Animal Sciences
Marketing Trade and Economics
Family, Youth, and Community
Human, Nutrition, Health and Food Safety
University of Arkansas Combined Research and Extension
Families, Youth, & Communities
Agricultural & Food Biosecurity
Agricultural Systems
Animals & Animal Products
Economics & Commerce
Food, Nutrition & Health
Natural Resources & Environment
Pest Management
Plants & Plant Products
Technology & Engineering
University of Arkansas at Pine Bluff Combined Research and Extension
Horticulture Production
Human nutrition
Food Animal Production and Management
Families, Youth, and Communities
Improved Management Options to Improve Catfish Production Efficiencies and Lower Costs
Alternative Crop Production
Herbs, Spices, and Medicinal Crops
Small Farm Program
Extension Livestock Management Program
Value Added Products

Reduce Losses Due to Catfish Diseases
Agricultural Policy
Breeding and Biotechnology
Aquaculture Equipment and Information Development Program
Improving Hatchery Production Efficiency
Improving Disease Status for Baitfish Production and Marketing
Controlling Predators of Larval Fish
Improving Management Techniques for Baitfish
Research Verification
Aquaculture Alternatives in Arkansas
1890 Family Resource Management
Farm Pond and Community Fishing Pond Management
Aquatic Plant Management in Arkansas Ponds
Improving Largemouth Bass Fishing in the Arkansas River
Water and Environmental Quality
Youth Fishing and Aquaculture Education
Cropping Systems
1890 Family and Child Development Program
Arkansas Ag Adventures - Agricultural Awareness
University of California Combined Research and Extension
Sustainability and Viability of California Agriculture
California Families, Youth and Communitiy Development
California Pest Management
Sustaining California's Natural Resources
Colorado State University Combined Research and Extension
4-H Youth Development
Strong Families, Healthy Homes
Nutrition and Food Safety
Animal Production Systems
Plant Production Systems
Natural Resources and Environment
Community Resource Development
University of Connecticut - Storrs Combined Research and Extension
Human Nutrition and Health
Economics Marketing and Policy
Family Youth and Communities
Forestry and Wildlife
Land Use
Plant Production
Plant Protection
Water and Weather
Animal Production
Animal Protection
Connecticut Agricultural Experiment Station - Research
Plant and Integrated Pest Management Systems
Food Safety and Biosecurity
Human and Animal Health
Soil and Water Quality

Delaware State University and University of Delaware Combined Research and Extension
ANIMAL BIOLOGY, HEALTH, AND PRODUCTION SYSTEMS
BIOTECHNOLOGY AND BIOTECHNOLOGY-BASED AGRIBUSINESS
ECOSYSTEMS AND BIODIVERSITY
FAMILY AND YOUTH DEVELOPMENT
FOOD SCIENCE, TECHNOLOGY, SAFETY, AND NUTRITION
PLANT BIOLOGY AND CROP PRODUCTION SYSTEMS
RURAL DEVELOPMENT AND LAND USE CHANGE
SOILS AND ENVIRONMENTAL QUALITY
AQUACULTURE
University of the District of Columbia Combined Research and Extension
Improving Plant Food (Fruit, Vegetable and Whole Grain) Availability and Intake in Older Adults
Finding Diabetes Associated Genes with Fuzzy-Inferenced Decisionmaking
Water Environment Studies in Schools Teacher Training Program
Cancer Prevention and Control Strategies for a Healthier DC Community
Juvenile Violent Crime Patterns
A Model of Macrophage Particulate Matter Air Pollution Interactions
Integrated Pest Management in Urban Gardens
Sustainable Agricultural Techniques for Growing Vegetables
Effect of Pelletized Maure on Vegetable Production and Vadose
Youth Environmental Life Sciences
4-H and Youth Development
D.C. Reads
Water Quality Monitoring and Education
Agriculture in the Classroom
Renewable Resources Extention Act (RREA)
Home Lawn and Gardening
Washington Metropolitan Area Transit Authority Advanced Landscape Program
Master Gardener/Junior Master Gardener
Integrated Pest Mgmt for the Sustained Reduction of Pest Population in Low Income Urban Households
Pesticide Certification and Training
Nutrition on Demand
Parenting
Teachers Understanding Nutrition and Agriculture (TUNA)
Food Stamp Education Nutrition Program
Obesity Research Projects
Home Maintenance and Repair
Asthma Project
Center for Cooperatives & C.H. Kirkman, Jr. Resource Library for Cooperatives
Promoting Businesses
Financial Literacy
DC Food Handler Certification Program Model Project
DC Drinking Water Blind Taste Testing
University of Florida Research and Extension and Florida A&M University Extension Combined
Enhance and Maintain Agricultural and Food Systems
Maintain and Enhance Florida's Environment
Developing Responsible and Productive Youth Through 4-H and Other Youth Programs
Create and Maintain Florida Friendly Landscapes: The Smart Way to Grow

Assist Individuals and Families to Achieve Economic Well-being and Life Quality
Healthy Communities
Promoting professional development activities designed to enhance organizational efficiency and effe
Natural Resources and Environment--research
Plants and Their Systems-research
Animals and their Systems--research
Food and Non-Food Products: Development, Processing, Quality, and Delivery--research
Economics, Markets and Policy--research
Human Nutrition, Food Safety, and Human Health--research
Families, Youth. and Communities--research
Florida A&M University Research
Viticulture and Small Fruit Research
Water Quality Research
Biological Control of Insect Pests
Statewide Goat Research Program
Small Farm, Value-Added Enterprises and Rural Families
Fort Valley State University and University of Georgia Combined Research and Extension
Food Processing, Protection & Safety
Technology Education for Seniors
Biorefinery and Carbon Cycling Program
Chronic Disease Prevention / Healthy Lifestyles
Animal Production and Protection
Consumer Economics and Financial Literacy
Poultry Production and Protection
Aquaculture
Quality Caregiving for Children and Youth
Plant Production and Protection
Youth Life Skill Development
Housing and the Near Environment
Sustainability and Profitability of Agriculture
Agriculture and Food Defence Program / Agrosecurity
Managing Water, Energy, Waste and Air Quality in Agriculture
New Product Development / Genomics and Cultivar Development
Urban Agriculture
Speciality Plants Technology
Meat and Dairy Goat Production and Processing
University of Guam Extension
Community Capacity Building
Tropical Food Processing and Safety
Guam Families, 4-H Youth Development and Communities
Nutrition Education for Guam
Animal Systems - Aquaculture Development
The New Farmer: Agriculture for the Next Generation
Plant Health and Pest Management
Sustainability of Small Scale Swine and Poultry Farms on Guam
Our Environment and Home & Urban Landscapes
University of Guam Research
Sustain, Protect, and Manage Guam's Natural Environment and Resources.

Development and Protection of Guam's Diversified Tropical Plant Systems, and Aquaculture.
University of Hawaii Combined Research and Extension
3. Hawai'i's Livestock and Aquaculture Systems For Sustainability and Competitiveness
1. Sustain, Protect, and Manage Hawai'i's Natural Resources and Environment
2. Hawai'i's Diversified Tropical Crop Systems for Sustainability and Competitiveness
4. Invasive Species Education and Management
5. Youth, Family and Community Development
6. Health and Wellness of Hawai'i's Families and Communities
7. Generate and Improve Hawai'i's Products, Processes and Market
University of Idaho Combined Research and Extension
Beef
Water and Environmental Quality
Small Acreages and Emerging Specialty Crops
Forest Management
Forages
Civil Society
Family Life Education
Sugarbeets
4-H Youth Development
Range Management
Family Economics
Health and Human Nutrition
Community Development
Nutrient and Waste Management
Farm and Ranch Management
Dairy
Food Safety
Cereals
Commercial and Consumer Horticulture
Other Idaho Commercial Crops
Potatoes
University of Illinois Combined Research and Extension
Plant Heath, Systems and Production
Community Resource Planning and Development
Animal Health and Production
Natural Resources and the Environment
Human Nutrition, Diet Adequacy, Health and Wellbeing
Food Product Development, Processing and Safety
Agricultural and Consumer Economics
Animal Genomics
Biofuels
Human Development and Family Wellbeing
4-H Youth Development
Agricultural and Biological Engineering
Purdue University Combined Research and Extension
Youth Development
Economics, Markets, and Policy
Agricultural, Natural Resources, and Biological Engineering

Food and Non-Food Products: Development, Processing, Quality, and Delivery
Family Well-Being
Human Nutrition, Food Safety and Human Health and Well-Being
Natural Resources and Environment
Plants and Their Systems
Animals and Their Systems
Economic and Community Development
Iowa State University Combined Research and Extension
Iowa Beef Center
Dairy Team
Iowa Pork Industry Center
Farm and Business Management
Community Resource Planning and Development
Economics, Markets, and Policy
Economic and Social Welfare
Community Services and Institutions
4-H Youth Development
Families, Communities and Civic Engagement
Money for Life
Strengthening Families
Food and Non-Food Products
Food and Nutrition: Choices for Health
Human Nutrition, Food Safety, and Human Health and Well-being
Natural Resources and the Environment and Agricultural and Biosystems Engineering
Commercial and Consumer Horticulture
Corn and Soybean Production and Protection
Plants and their Systems
Kansas State University Combined Research and Extension
Healthy Communities: Youth, Adults and Families
Safe Food and Human Nutrition
Economic Development through Value-Added Products
Natural Resources and Environmental Management
Competitive Agricultural Systems
Kentucky State University and University of Kentucky Combined Research and Extension
Life Skill Development
Leadership and Volunteerism
Diet, Nutrition and Healthy Lifestyles
Social and Economic Opportunity
Competitive Agriculture
Agricultural and Environmental Quality
Louisiana State University Combined Research and Extension
Animals and Animal Production Systems
Environment and Natural Resources
Forestry and Forest Products
Horticulture
Nutrition and Food
Family Development
Youth Development

Crops and Crop Production Systems
Community Development
Southern University and A&M College Combined Research and Extension
I. SUSTAINABLE AGRICULTURAL SYSTEMS
II. URBAN FORESTRY AND NATURAL RESOURCE MANAGEMENT
III. NUTRITION AND HEALTH
IV. FAMILY AND HUMAN DEVELOPMENT
V. YOUTH DEVELOPMENT
VI. ECONOMIC AND COMMUNITY DEVELOPMENT
University of Maine Research
Animal Production and Protection
Plant Production
Plant Protection
Natural Resources
Economics, Marketing, Policy and Community Development
Foods and Nutrition
University of Maine Extension
Aging Lifestyles
Agriculture - Crop Production
Coastal and Marine
Entrepreneurship - Small and Home Based Business
Agriculture - Sustainable Business Management
Community Development: Capacity-building Skills
Environmental Education - Sustainable Living
Family Relations and Transitions
Food Safety
Forestry and Wildlife
Health Literacy, Disease, and Our Health Care System
Healthy Lifestyles
Administrative ; Planning and Supervision
Home Horticulture
Maine Livestock Industry
Pest Management
Sustainable Communities
Youth Development
Watershed Management
University of Maryland and University of Maryland - Eastern Shore Combined Research and Extension
Economic Prosperity of Productive and Sustainable Food and Fiber Systems
Enhancing Environmental Stewardship and Maintaining a Balance Between Agriculture & the Environment
Quality of Life
University of Massachusetts Research
Enhancing the Use of Natural Resources and Restoring Ecosystem Integrity
Management Practices for Sustaining Agriculture in the Northeast
Improving Animal Reproduction and Health
Improving Human Health and Wellbeing through Food Function and Food Safety
Developing Tools for Decision-Making
Center for Agriculture
University of Massachusetts Extension

Ecosystem Management, Protection And Restoration
Food Production
Food Safety
Health Promotion and Disease Prevention
Land Use Management
Natural Resource-Based Economic Development
Water Resource Protection
Youth Development and Engagement
Organizational Development (Administrative Plan)
General Operations and Administration (Administrative Plan)
Michigan State University Combined Research and Extension
Human Health, Environment, Family, Youth, Society and Community
Soil, Water and Natural Resources
Plant Sciences
Food Quality, Nutrition, Engineering and Processing
Economics, Marketing and Policy
Animal Production and Protection
College of Micronesia Combined Research and Extension
Aquaculture
Small Island Agricultural Systems
Families, Youths & Communities
Food, Nutrition & Health
University of Minnesota Combined Research and Extension
4-H Programs in Minnesota
Agricultural Business Management
Leadership and Civic Engagement
Community Youth Development
Family Relations
Family Resource Management
Environmental Science Education
Water Resource Management and Policy
Natural Resources Management and Utilization
Housing Technology
Food Safety Education
Commodity Crop Production
Community Economics
Nutrition Education Program
Consumer Horticulture
Commercial Horticulture
Livestock
Mississippi State University Combined Research and Extension
Children, Youth, and Families at Risk
4-H Community Club Development
4-H Military Program
Volunteerism and Community Service for Youth
Agronomic Crops
Animal Production
Animal Protection

Aquaculture Production
Aquaculture Health
Forestry
Horticulture
Nutrient Management/Water Quality
Poultry
Wildlife and Fisheries
Early Care and Education
Family Resource Management
Human Health
Human Nutrition/Food Safety
Family Leadership Development
Family Life
Integrated Pest Management
Community and Business Analysis
Community Health
Community Leadership Development
Community Tourism Development
Agribusiness/Risk Farm Management
Local Government Education and Training
Alcorn State University Combined Research and Extension
Human Development and Family Well-Being
Youth - At - Risk
Sustainable Animal Production Systems
Sustainable Horticulture Production Systems
Community Resource Planning & Economic Development
Small Family Farm Enterprise Financial Analysis, Management, and Marketing
Forestry Natural Resources and Preservation
Human Nutrition, Health, Wellness and Obesity
Agronomy Production Systems
University of Missouri Research
Plant Biology and Biochemistry
Animal Biology and Production
Natural Resources
Food Systems and Biological Engineering
Agricultural Policy and Rural Development
University of Missouri Extension
Watershed Management and Planning
Forage Production and Management
Home Horticulture and Environment
Individual Wastewater Systems-Implications for a New Rural Generation
Missouri Crop Management Systems
Missouri Master Wildlifer
Missouri Woodland Steward
Pasture Based Dairy Systems
MO-PORK: Increasing Pork Production in Missouri
Plant Protection for the 21st Century
Profit Focused Agriculture

Show-Me-Select Replacement Heifer Program
Applying Science and Technology
Building Character
Choosing Healthy Lifestyles
Creating Economic Preparedness
Enhancing Community Viability Through Youth Leadership
Volunteer Development
Improving Communications
Building Environments
Parenting
Strengthening Families
Building Better Childcare for Missouri
Food Safety
Personal Financial Management
Nutrition, Health and Physical Activity
Facilitating Community Decision Making for Youth and Adults
Ensuring Safe Communities
Community Leadership Development for Youth and Adults
Building Inclusive Communities
Creating Community Economic Viability
Aging
Business Development
Lincoln University of Missouri Combined Research and Extension
Animal Science
Family and Youth Development
Community and Leadership Development
Environmental Science
Human Nutrition
Plant Science
Montana State University Research
Water Quality and Use
Integrated Pest Management
Sustainable Agriculture
Biobased Products and Processing
Plant Breeding, Genetics and Genomics
Animal Health
Agronomic and Forage Crops
Montana State University Extension
Nutrition, Food Safety and Healthy Lifestyles
Youth Development
Ag Sustainability and Profitability
Family Issues, Resources and Environments
Community and Economic Development
Natural Resources and Environment
University of Nebraska Combined Research and Extension
Sustainable and Economically Viable Food and Biomass Systems
A quality Environment and Effective Natural Resource Management
Viable Communities and Appropriate Quality of Life for Individuals and Families

University of Nevada Extension
Community Development
Health & Nutrition (Healthy Lifestyle & Food Choices)
Agriculture & Natural Resources
Human & Family Development
University of Nevada Research
Agricultural Production in a Semi-Arid Environment
Natural Resource Management and Environmental Sciences in the Great Basin and Sierran Ecosystems
Economic Development with Emphasis in Rural Areas
Nutrition and Health
University of New Hampshire Research
Agricultural & Food Biosecurity
Agricultural Systems
Animals & Animal Products
Biotechnology & Genomics
Economics & Commerce
Food, Nutrition & Health
Natural Resources & Environment
Pest Management
Plants & Plant Products
University of New Hampshire Extension
Forestry and Wildlife
Agricultural Resources
4-H Youth Development
Civic Participation and Leadership
Strengthening New Hampshire Communities
Excellence in Extension Teaching
Family and Consumer Resources
Land and Water Conservation
Extension Disaster Education Network
Program Development and Evaluation
Natural Resource Business Institute
Sea Grant and Water Resources
Rutgers Combined Research and Extension
Water Quality & Quantity
Youth/Adult Obesity
Indoor Air Quality
4-H Youth Development
Agricultural Viability
Sustainability of NJ Equine Industry and Its Impact on Agriculture and Open Space
Home, Garden and Environment
Integrated Pest Management
Aquaculture
New Mexico State University Combined Research and Extension
Animal Production
Food Safety and Technology
Plant and Animal Protection
Plant Production

4-H and Youth Development
Agricultural Markets, Trade, and Economic/Business Development
Health and Wellbeing
Sustainable Management of Natural Resources
NY State Agricultural Experiment Station Research and Cornell University Research and Extension Combined
1.1 Agricultural and Horticultural Business Vitality
1.3 Viable and Sustainable Production Practices -- Plant
1.4 Renewable/Alternative Energy and Conservation
1.5 The Agriculture/Community Interface
2.1 Connecting People to the Land and Their Environment
2.2 Strengthening Community Economic Development
3.1 Nutrition, Food Safety and Health
3.2 Parenting and Dependent Care
3.3 Family Financial Security and Management of Housing Resources
4.1 Natural Resource Management
5.1 Youth in Action
5.2 Positive Youth Development/Life Skill Development
5.3 Science and Technology Literacy
4.2 Water Resources Management
4.3 Waste Management and Prevention
1.2 Viable and Sustainable Production Processes -- Animal
North Carolina A&T State University Extension and North Carolina State University Research and Extension Combined
Plant Production Systems and Health
Economic Systems
Natural Resources and Environment
Animals and Their Systems, Production and Health
Agricultural, Natural Resource, and Biological Engineering
Food Production Systems: Development, Processing, Quality, and Safety
Human Nutrition and Health
Famlies and Communities
Youth Development
North Carolina A&T State University Research
Human and Community Development
Biotechnology and Biodiversity
Soil and Water Quality
Agromedicine, Nutrition and Food Safety
Small Scale Agriculture
International Trade and Development
North Dakota State University Combined Research and Extension
Economics of Crop Production
Energy in Crop Agriculture
Plant Breeding
Weed Science
Soil Science
Biofuels
Insect Management
Center for Nutrition and Pregnancy
Nutrition of Grazing Livestock

Food Safety
Healthy Patterns of Eating & Physical Activity
Livestock Waste Management
Citizenship and Leadership Development
Developing Leadership Systems
Financial Security for All
Noxious and Invasive Weed Management
Fusarium head blight of wheat
Family Meals
Northern Marianas College Combined Research and Extension
Livestock Improvement Program
Plant Protection Program (Invasive Species)
Crop Improvement Program
Soil and Water Quality Program
Expanded Food and Nutrition Education Program (EFNEP)
CNMI Families, Youth and Communities Enrichment Program
Diet, Physical Activity, and Health
Ohio State University Combined Research and Extension
Soil, Water and Air Systems-OARDC Led
Natural Resources and Environmental Systems-OARDC Led
Plant Systems-OARDC Led
Animal Systems-OARDC Led
Food, Agricultural, and Biological Engineering Systems-OARDC Led
Food Systems-OARDC Led
Bio-based Non-Food Value Chains-OARDC Led
Human Health and Safety-OARDC Led
Agricultural, Environmental, and Development Economics-OARDC Led
Human and Community Resource Development-OARDC Led
Building Human Capital (Extension)
Nutrition Education and Behavior (Extension)
Financial Security (Extension)
Financial Stability (Extension)
Volunteer Education & Training (Extension)
Ohio 4-H Teen Leadership (Extension)
Community Development Leadership Development (Extension)
Downtown Revitalization (Extension)
Business & Economic Development (Extension)
Building Sustainable Communities (Extension)
Advancing Community Tourism (Extension)
Direct Marketing Program (Extension)
Land Use (Extension)
Preparing Communities for the Knowledge Economy (Extension)
Community Based Watershed Program (Extension)
Youth Food Producing Animal Quality Assurance (Extension)
Pesticide Education Program (Extension)
Greenhouse and Floriculture Systems and Marketing (Extension)
Agronomic Crop Management and Certified Crop Advisor (Extension)
Managed Forage and Grazing (Extension)

Conservation Tillage (Extension)
Sustainable Agriculture (Extension)
Ohio Dairy Health Management Certificate Program (Extension)
Livestock Environmental Assurance and Mortality Management (Extension)
Management & Sustainability of Forest Resources (Extension)
Oklahoma State University Combined Research and Extension
Animal Enterprises
Crop Enterprises
Plant Biological Technologies
Commercial and Consumer Horticulture
Ecosystem and Environmental Quality and Management
Food Processing, Product Storage, and Food and Product Safety
Family Resiliency and Economic Well-Being and Human Nutrition and Health
4-H Youth Development
Turfgrass Development and Management
Community Resource and Economic Development
Integrated Pest Management
Agricultural Biosecurity
Structure and Function of Macromolecules
Farm and Agribusiness Management
Sensor-Based Technologies for Agricultural and Biological Systems
Bio-Based Products Development
Langston University Combined Research and Extension
Enhanced Goat Production in the South-Central United States
Community Resource Development
School Enrichment
Teen Pregnancy Prevention
Drug and Alcohol Prevention
4-H Clubs
Extended Education
Family and Consumer Sciences
Food and Nutrition
Biotechnology
Water Gardens (Aquaculture)
Alternative Species (Aquaculture)
Feeder Design (Aquaculture)
Phytoplankton (Aquaculture)
Fishery Management (Aquaculture)
Sustainable Internal Parasite Control for Small Ruminants
Goat Internet Website
Development of New Dairy Goat Products
Demonstration Clinic: Artificial Insemination for Goats
Fish Marketing (Aquaculture)
Meat Buck Performance Test
Goat Dairy Herd Improvement (DHI) Laboratory
Small Farms Systems
Oregon State University Research
Economics of Land and Water Use on Private and Public Lands

Integrated Production Systems
Horticultural Management Systems
Basic Plant Biology & Related Topics for Horticulture
Animal Health and Disease
Improving Agribusiness & Food Marketing Decisions in the Pacific NorthWest
Comparative Advantage of U.S. and Oregon Agricultural and Food Industries
Microbiology and a Healthy World
Consumers, Food Marketing, and Business Strategies
Animal and Human Health and Well Being through Nutrition
Reproductive Performance of Animals
Sustainable Animal Production Systems
Alternative Energy Systems and Bioproducts
Managing Marine Resources for Sustainable Systems
Conservation and Restoration of Aquatic, Marine and Terrestrial Ecosystems
Plant and Soil Management in Agricultural Systems
Field Crop Pest Management and Biology
Plant Breeding, Genetics, Biotechnology and Crop Quality
Soil, Water, and Environmental Systems
Dryland Cropping Systems
Soil and Water Resource Conservation, Management and Engineering
Biological Control of Pests Affecting Plants
Plant Genome, Genetics, and Genetic Mechanisms
Pathogens and Nematodes Affecting Plants (Molecular and Field Programs)
Agricultural and Emerging Chemicals: Fate, Effect & Exposure
Environmental Chemicals as Transcriptional Modulators: Understanding Health Effects as a Function of
Rangeland Ecology and Management
Social Change in the Marketplace: Producers, Retailers and Consumers
Families, Youth, and Communities
Human Nutrition, Food Safety, and Human Health and Well Being
New and Improved Food Processing Systems to Ensure a Safe, Wholesome and High-Value Food Supply
Oregon State University Extension
Forestry: Enhancing the Competitiveness of Oregon's Forest Enterprises
Forestry: Public Engagement for Planning Oregon's Future
Forestry: Sustaining Natural Resources
4-H Adult and Youth Leadership Development
4-H Environmental Stewardship
4-H Nutrition and Health
4-H Science, Technology, and Engineering
Ag: Small Farms and "Natural" and Organic Production Systems
4-H Workforce Preparation
4-H Outreach to New and Underserved Audiences
4-H Afterschool
Ag: Dryland Cropping Systems
Ag: Livestock Based Production Systems
Ag: High Rainfall and Irrigated Cropping Systems
Healthy People, Healthy Communities
Healthy Aging
Financial Literacy

Sea Grant: Water Protection and Management
Pennsylvania State University Combined Research and Extension
Agricultural and Food Biosecurity
Agricultural Systems
Families, Youth, and Communities
Natural Resources and Environment
Pest Management
University of Puerto Rico Research
Milk and Meat Production Systems Resources
Integrated Management of New and Emerging Pests
Plant genetic resources, breeding and production systems
Natural Resources and Environment
Agricultural Economics, Marketing, Value Added and Community Development
University of Puerto Rico Extension
Human Health and Well-Being
Consumer Education and Individual and Family Resources Management
Food Safety Program
Strengthening Youth Life Skills, Leadership and Their Community
Crop Production
Engineering and Biosystems
Families and Children
Empowering and Self-management Communities
Plant Protection
Soil, Water, and Air
Healthy: No matter what my size or income
Management of Rangeland and Forestry Resources
Animal Protection
Community Resources Development
Economics, Marketing and Policy
Animal Production
University of Rhode Island Combined Research and Extension
Improving the Quality of Life for Rural Rhode Islanders
Food Safety
Nutrition, Health and Obesity Prevention
Food Insecurity and Nutrition in Vulnerable Populations
Children, 4-H and Families
Sustainable Communities
Vector Borne Diseases and Human Health
Aquaculture Biotechnology
Water Quality
Forestry and Wildlife
Community Gardening and Outreach
Health and Well-being of Livestock
Horticulture and the Reduction of Pests and Disease Outbreaks in Plants
Natural and Environmental Resource Economics, Markets and Policy
Clemson University and South Carolina State University Combined Research and Extension
Sustainable Animal Production Systems
Sustainable Agriculture Production for Horticultural Crops

Sustainable Agronomic Crop Systems
Water Quality and Water Quantity
Biotechnology
Food Safety and Nutrition
Community, Leadership, and Economic Development
Integrated Pest Management
4-H Youth Development and Families
Environmental Conservation for Wildlife
Sustainable Forest Management
South Dakota State University Combined Research and Extension
Natural Resources and Environment
Plants and Their Systems
Animals and Their Systems
Agricultural, Natural Resource and Biological Engineering
Food and Non-food Products, Development, Processing, Quality and Delivery
Economics and Market Policy
Human Nutrition, Food Safety, and Human Health and Well-Being
Families, Youth and Communities
University of Tennessee Research and Extension and Tennessee State University Extension Combined
Agronomic Crop Systems
Biomass Utilization
4-H Positive Youth Development
Human Development
Animal Systems
Food Safety, Quality, and Nutrition
Family Economics
Forestry, Wildlife, and Fishery Systems
Economic Infrastructure and Commerce
Health and Safety
Horticultural Systems
Environmental and Water Quality Impacts
Tennessee State University Research
Development of treatments to manage quarantine insects in field nursery production
Developing a recombinant antibody-based biosensor for rapid detection of salmonella in foods
Controlling imported fire ants in the nursery industry using behavior modifying chemicals
Management strategies to improve meat goat and guinea fowl production
Evaluation of pathogen infectivity in stressed plants.
Evaluation of poinsettias and seasonal alternative crops for production in Tennessee
Assessment of nutrients in the Collins River basin
Molecular approaches for the study of leaf surface microorganisms in ornamental crops
Analyzing the green industry and related sub-sectors in Tennessee: challenges and prospects
Reducing the costs of food borne illnesses to small producers, selected food handlers and consumers
Biopesticides to control diseases and insects and improve water quality from container nursery stock
Evaluation of agricultural production on water resources and determination of mitigation strategies
Reducing risk of food borne illness by characterizing food pathogens and risky consumer practices
Pathology research to benefit the Tennessee nursery industry
Evaluating strategies to promote the goat meat industry in Tennessee
Nutritional and management strategies to improve growth and production performance of guinea fowl

Improving families through improved nutrition and well-being of limited resource households
Molecular and whole-plant evaluations of selected herbaceous plants
Impact of the tobacco buyout program and strategies to promote economic viability of small farmers
Functional studies on cold and heat–regulated genes using tomato as a model plant
Germplasm collection and evaluation of Goldenseal clones with superior properties
Texas A&M University Combined Research and Extension
Range Management
Economics and Management
Diabetes Education
Exercise and Wellness
Community Resource and Economic Development
Water Management
Parenting and Dependent Care
Character Education
Out of School Time
Leadership and Volunteer Development
Food Safety
Food and Nutrition Education for Limited Resource Audiences
Livestock and Meat Quality, Safety, and Productivity
Life Skills for Youth
Crop and Forage Production Systems
Child Passenger Safety
Cancer Risk Reduction and Early Detection
Prairie View A&M University Research
Food Systems
Animal Systems
Plant and Environmental Systems
Prairie View A&M University Extension
4-H Leadership and Civic Engagement Program
4-H & Youth Life Skills
4-H Career Development, Work-Force Preparation and Youth Entrepreneurship Program
Economic Growth & Development
Housing
Community Development
Sustainable Agriculture Production Systems
Small Farm Financial Management and Marketing
Natural Resources, Water and the Environment
Families, Youth and Communities
Human Nutrition
Families, Youth and Communities
Human Health and Well-Being
Utah State University Combined Research and Extension
Land Use and Sustainable Communities
Sustainable Plant Communities
Sustained Livestock Production
Plant, Animal, and Microbial Genomics
Production and Safety of Food Products
Water and Soil Conservation and Uses

Natural Resource Systems and the Environment
Production, Marketing, Trade, and International Economics
Individuals, Families, and Communities
University of Vermont Combined Research and Extension
Personal and intellectual development of youth
Community Development
Health
Agriculture and Environmental Sustainability
Virginia Polytechnic Inst. & State University and Virginia State University Combined Research and Extension
Agricultural and Food Biosecurity
Agricultural Systems
Food, Nutrition, and Health
Animals and Animal Products
Biotechnology and Genomics
Natural Resources and Environment
Economics and Commerce
Families, Youth, and Communities
Plants and Plant Products
Pest Management
University of the Virgin Islands Research
Animal Science - Small Ruminants
Animal Science - Dairy Cattle
Animal Science - Beef Cattle
Plant Biotechnology
Plant Germplasm Conservation and Enhancement
Agronomy - Tropical hay production
Horticulture
Irrigation
Aquaculture - Biofloc systems
Aquaculture – Aquaponic Systems
Whole Farm Systems Research
University of the Virgin Islands Extension
Beef, Dairy and Small Livestock
Sustainable Agriculture
Natural Resources and Environmental Management
Urban Forestry
Urban Gardening
Water Quality
Computer Training and Technology Program
4-H Volunteer Development and Management Program
A Healthy, Well-Nourished Population
Basic Food Safety Education – EFNEP and EFNEP Youth
Marketable Skills for Limited Resource Families, Youth and Communities
4-H Summer Program
4-H/Youth Development
Eastern Caribbean Extension Outreach and Interchange
Washington State University Research
Program in Food Science and Human Nutrition

Program in Animal Science
The IMPACT Center
Western Regional Plant Introduction Station (W-006)
Program in Plant Pathology
Program in Economic Sciences
Program in Statistics
Program in Community and Rural Sociology
Program in Agricultural Animal Health
Program in Fruit and Vegetable Development, Production and Management
Program in the Post Harvest Quality of Fruits and Vegetables
Program in Environmental Horticulture
Program in Entomology
Program in Natural Resource Sciences
Wood Materials Engineering Laboratory
Program in Biological Systems Engineering
Institute of Biological Chemistry
Program in Crop Genetics and Breeding
Program in Sustainable Crop and Soil Managment
Washington State University Extension
Enhancing Economic Opportunities for Agricultural Producers while Protecting Washington's Resources
Building the Capacity of Washington Communities to Create a Desired Future
Improving the Health and Wellness Status of Washington Residents
Eliminating Barriers to Social, Economic and Educational Success Among Youth and Families
Enhancing Stewardship of Natural Resources and the Environment
West Virginia University Extension
Pesticide Safety Education
Adult Volunteer Leadership Development
Mid-Atlantic Information Network for Pesticides
Forest Stewardship
Master Naturalist
Dining with Diabetes
Bridging the Gap with Education: Diabetes Symposium
Food Safety
Horticulture Marketing
Commercial Horticulture Production
Germ City: Clean Hands Healthy People
Government, Planning, and Public Policy
Grassland Management
Community Leadership Development
Citizenship
4-H Community Clubs
4-H School-based Clubs
4-H Charting Program
Homeowner Horticulture
Master Gardener
4-H Special Interest Groups
4-H Healthy Lifestyles Program
Experiential Education

WV State Annual Fire School
Aircraft Crash Rescue Firefighting Program
Forestry Logging and Milling
Global Education Task Force/Team
Advanced Fire Officer Training
Independent Retail Assessment (IRAP)
First Impressions
4-H Youth Leadership
Fairs & Festivals Program
A New You: Health for Every Body
Downtown Revitalization
Business Retention and Expansion
Active for Life
Youth Agriculture
Nutrient Management
Community Development Institute East
Integrated Pest Management
Animals and Handwashing
Feeder Cattle Marketing
Beef Quality Assurance
Aquaculture
Energy Express
Career Preparation
Post Secondary Opportunity
Earned Income Tax Credit (EITC) Project
Family Nutrition Program
WVUES AmeriCorps*VISTA (A*V) Project
4-H Afterschool Program
4-H Cloverbud Program
4-H Community ATV Program
4-H Science, Technology and Engineering Programs
Value-Added Marketing
Heritage, Culture and Tourism
Biosecurity
Sustainable Agriculture
Reaching the Underserved
Small Ruminants
Plant Diagnostics
Farm Management
Family Times Newsletter
Community Educational Outreach Service
Family Storyteller
Childcare Education
Senior Moments
Relatives as Parents
Reading Partners
Safety and Health Extension
Fairs and Festivals at Jackson's Mill

Institute for Labor Studies and Research Programs
Family Finance
Healthy Families Healthy Children
4-H Camping Program
Livestock Improvement
West Virginia State University Research
Natural Resource Management
Aquaculture
Environmental Microbiology
Plant Genomics
Agricultural Biotechnology
Alternative Agriculture
West Virginia State University Extension
Expansion of Residential Horticulture Activities in West Virginia
Youth Agriculture
Alternative Agriculture
The Hip-Hop Boot Camp
Health Sciences and Technology Academy Forensics Summer Institute (HSTA)
Summer Extension and Research Apprenticeship Program (SERAP)
Production Agriculture
Business Retention and Expansion
Bee a Reader, Bee a Leader After School Literacy Program
Beats, Rhymes, and Life
Community Revitalization
Bake ~n~ Shake Summer Camp
Expanded Food and Nutrition Education Program (EFNEP)
Can You Repeat That, Please?
Technology and Literacy
Workforce Education and Individual Resource Development
Successful Futures for Adults, Families, and Youth
Parenting Development
Positive Behaviors For Teens
Violence Prevention and Intervention
Dining With Diabetes
Summer Food Service Program
West Virginia University Research
Fundamental Plant and Animal Systems
Production Agriculture
Production Forestry - Timber Management and Wood Utilization
Environmental Quality and Stewardship
Economic Development and Quality of Life in Rural Communities
Human Nutrition and Health with an Adequate, Safe, and High Quality Food Supply
Wildlife Management
University of Wisconsin Research
Overall Program
University of Wisconsin Extension
Dairy
Nutrient Management

Community and Economic Development Preparedness
Downtown Vitality and Placemaking
Organizational Development
Youth Voices in Community Action and Governance
Building 4-H After School Programs
Family Caregiving
Family Financial Education
University of Wyoming Combined Research and Extension
(PSAS)-Crop Systems - Profitable and Sustainable Agriculture Systems
(PSAS) Forage Based Livestock Systems - Profitable and Sustainable Agriculture
(CDE) Family Resource Management
(NFS) Cent$ible Nutrition Program (EFNEP)
(CDE) Leadership Development
(NFS) Food Safety
(CDE) Entrepreneurship
(PSAS) Urban Horticulture and Master Gardeners
(4-H) Volunteer Management
(4-H) Traditional 4-H
(4-H) Non-Traditional 4-H
(SMRR) Natural Resource Conservation and Management
(NFS) Type 2 Diabetes - Healthy Choices & Lifestyle Promotion
(SMRR) 4-H/Youth Natural Resource Education
(NFS) Primary Prevention: Promote Healthier Food Choices and Lifestyles
(PSAS and SMRR) Wyoming Small Acreages
(SMRR) Natural Resource Education for Agricultural Producer and Agency Personnel

Level of FTE by Knowledge Area Code

KA Code	KA Text	1862 Res.	1862 Ext.	1890 Res.	1890 Ext.	Totals	Percentages
101	Appraisal of Soil Resources	60.79	37.72	0.84	0.27	99.6	0.59%
102	Soil, Plant, Water, Nutrient Relationships	241.53	241.58	12.51	16.11	511.7	3.02%
103	Management of Saline and Sodic Soils and Salinity	4.32	6.46	1.56	0.10	12.4	0.07%
104	Protect Soil from Harmful Effects of Natural Elements	10.77	24.95	1.73	0.66	38.1	0.23%
111	Conservation and Efficient Use of Water	75.60	111.03	6.16	4.45	197.2	1.17%
112	Watershed Protection and Management	132.82	189.51	13.51	1.98	337.8	2.00%
121	Management of Range Resources	63.68	60.66	1.80	0.80	126.9	0.75%
122	Management and Control of Forest and Range Fires	8.91	7.29	0.00	0.00	16.2	0.10%
123	Management and Sustainability of Forest Resources	131.06	108.95	4.68	6.64	251.3	1.49%
124	Urban Forestry	25.20	22.13	2.09	2.03	51.5	0.30%
125	Agroforestry	23.33	11.65	1.61	1.41	38.0	0.22%
131	Alternative Uses of Land	45.79	66.31	2.85	3.31	118.3	0.70%
132	Weather and Climate	25.16	27.73	2.06	0.88	55.8	0.33%
133	Pollution Prevention and Mitigation	119.14	107.81	11.30	2.18	240.4	1.42%
134	Outdoor Recreation	9.87	15.55	1.86	1.58	28.9	0.17%
135	Aquatic and Terrestrial Wildlife	101.09	80.39	2.79	1.41	185.7	1.10%
136	Conservation of Biological Diversity	14.64	30.61	1.33	0.98	47.6	0.28%
141	Air Resource Protection and Management	11.09	24.40	0.78	0.90	37.2	0.22%
201	Plant Genome, Genetics, and Genetic Mechanisms	245.92	131.78	12.21	5.47	395.4	2.34%
202	Plant Genetic Resources	147.23	62.97	14.82	1.37	226.4	1.34%
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants	109.93	49.31	4.89	4.66	168.8	1.00%
204	Plant Product Quality and Utility (Preharvest)	168.13	100.79	2.40	2.63	273.9	1.62%
205	Plant Management Systems	460.93	472.87	22.73	24.83	981.4	5.80%
206	Basic Plant Biology	142.66	72.08	4.36	3.70	222.8	1.32%
211	Insects, Mites, and Other Arthropods Affecting Plants	217.43	137.51	13.36	8.81	377.1	2.23%
212	Pathogens and Nematodes Affecting Plants	339.88	171.65	9.30	6.93	527.8	3.12%
213	Weeds Affecting Plants	133.46	97.41	3.83	6.55	241.2	1.43%
214	Vertebrates, Mollusks, and Other Pests Affecting Plants	9.63	9.44	0.00	0.43	19.5	0.12%
215	Biological Control of Pests Affecting Plants	90.16	53.31	7.70	2.01	153.2	0.91%
216	Integrated Pest Management Systems	267.59	245.99	10.31	4.41	528.3	3.12%
301	Reproductive Performance of Animals	137.67	101.50	10.61	8.68	258.5	1.53%
302	Nutrient Utilization in Animals	180.85	115.10	22.66	7.34	325.9	1.93%

303	Genetic Improvement of Animals	70.60	49.75	6.34	4.64	131.3	0.78%
304	Animal Genome	57.29	10.86	6.50	0.00	74.6	0.44%
305	Animal Physiological Processes	55.70	23.40	4.37	0.87	84.3	0.50%
306	Environmental Stress in Animals	40.13	27.72	0.22	0.37	68.4	0.40%
307	Animal Management Systems	259.25	248.59	20.78	12.75	541.4	3.20%
308	Improved Animal Products (Before Harvest)	35.28	39.02	6.30	3.73	84.3	0.50%
311	Animal Diseases	203.10	98.70	6.87	6.28	315.0	1.86%
312	External Parasites and Pests of Animals	18.53	16.48	0.35	1.01	36.4	0.22%
313	Internal Parasites in Animals	12.40	11.71	4.36	1.66	30.1	0.18%
314	Toxic Chemicals, Poisonous Plants, Naturally Occurring Toxins, and Other Hazards Affecting Animals	23.76	7.27	0.70	0.05	31.8	0.19%
315	Animal Welfare/Well-Being and Protection	41.26	59.28	0.12	1.52	102.2	0.60%
401	Structures, Facilities, and General Purpose Farm Supplies	13.80	26.32	2.12	1.99	44.2	0.26%
402	Engineering Systems and Equipment	34.03	40.14	1.17	2.39	77.7	0.46%
403	Waste Disposal, Recycling, and Reuse	79.98	69.78	6.48	2.45	158.7	0.94%
404	Instrumentation and Control Systems	10.00	9.76	0.15	1.11	21.0	0.12%
405	Drainage and Irrigation Systems and Facilities	15.19	17.41	0.30	0.79	33.7	0.20%
501	New and Improved Food Processing Technologies	116.95	101.18	5.30	5.92	229.3	1.36%
502	New and Improved Food Products	107.00	72.64	7.94	1.81	189.4	1.12%
503	Quality Maintenance in Storing and Marketing Food Products	33.01	44.11	4.41	1.03	82.5	0.49%
504	Home and Commercial Food Service	9.13	29.89	1.46	2.55	43.0	0.25%
511	New and Improved Non-Food Products and Processes	69.49	30.19	0.42	0.47	100.6	0.59%
512	Quality Maintenance in Storing and Marketing Non-Food Products	5.06	2.10	0.00	0.05	7.2	0.04%
601	Economics of Agricultural Production and Farm Management	155.81	229.97	13.70	20.17	419.6	2.48%
602	Business Management, Finance, and Taxation	66.78	108.58	4.42	20.04	199.8	1.18%
603	Market Economics	40.68	39.85	2.31	1.67	84.5	0.50%
604	Marketing and Distribution Practices	80.92	144.26	8.96	13.90	248.0	1.47%
605	Natural Resource and Environmental Economics	84.13	80.98	1.10	4.67	170.9	1.01%
606	International Trade and Development	18.76	15.00	0.00	0.00	33.8	0.20%
607	Consumer Economics	19.68	48.41	0.91	5.31	74.3	0.44%
608	Community Resource Planning and Development	45.46	280.77	4.84	27.55	358.6	2.12%
609	Economic Theory and Methods	11.59	18.57	2.65	2.85	35.7	0.21%
610	Domestic Policy Analysis	37.35	69.61	4.80	2.90	114.7	0.68%
611	Foreign Policy and Programs	4.04	4.27	0.86	0.03	9.2	0.05%
701	Nutrient Composition of Food	24.62	53.81	5.92	4.04	88.4	0.52%
702	Requirements and Function of Nutrients and Other Food Components	92.64	100.44	7.64	7.10	207.8	1.23%

703	Nutrition Education and Behavior	111.43	438.28	17.94	27.26	594.9	3.52%
704	Nutrition and Hunger in the Population	7.50	57.79	0.30	3.45	69.0	0.41%
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources	41.33	45.27	4.35	1.46	92.4	0.55%
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	141.69	182.73	14.72	7.78	346.9	2.05%
721	Insects and Other Pests Affecting Humans	16.13	24.92	2.11	0.80	43.9	0.26%
722	Zoonotic Diseases and Parasites Affecting Humans	36.74	16.76	0.02	0.20	53.7	0.32%
723	Hazards to Human Health and Safety	48.82	81.42	2.56	6.25	139.1	0.82%
724	Healthy Lifestyle	37.24	251.49	7.40	28.61	324.7	1.92%
801	Individual and Family Resource Management	38.13	394.90	2.37	25.23	460.6	2.72%
802	Human Development and Family Well-Being	69.66	557.85	6.80	50.68	685.0	4.05%
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	29.59	225.27	4.62	14.25	273.7	1.62%
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures	8.20	50.62	3.05	7.78	69.7	0.41%
805	Community Institutions, Health, and Social Services	49.85	234.70	4.20	15.68	304.4	1.80%
806	Youth Development	78.41	1479.00	10.20	101.84	1669.5	9.87%
901	Program and Project Design, and Statistics	7.81	27.33	0.00	1.94	37.1	0.22%
902	Administration of Projects and Programs	1.87	29.71	0.00	0.10	31.7	0.19%
903	Communication, Education, and Information Delivery	22.09	72.29	0.20	2.38	97.0	0.57%
Totals		6496.1	9397.5	434.2	592.8	16920.6	100.00%

Number and Percent of FTEs by Knowledge Areas Sorted from High to Low

KA Code	KA Text	1862 Res.	1862 Ext.	1890 Res.	1890 Ext.	Totals	Percentages
806	Youth Development	78.41	1479.00	10.20	101.84	1669.5	9.87%
205	Plant Management Systems	460.93	472.87	22.73	24.83	981.4	5.80%
802	Human Development and Family Well-Being	69.66	557.85	6.80	50.68	685.0	4.05%
703	Nutrition Education and Behavior	111.43	438.28	17.94	27.26	594.9	3.52%
307	Animal Management Systems	259.25	248.59	20.78	12.75	541.4	3.20%
216	Integrated Pest Management Systems	267.59	245.99	10.31	4.41	528.3	3.12%
212	Pathogens and Nematodes Affecting Plants	339.88	171.65	9.30	6.93	527.8	3.12%
102	Soil, Plant, Water, Nutrient Relationships	241.53	241.58	12.51	16.11	511.7	3.02%
801	Individual and Family Resource Management	38.13	394.90	2.37	25.23	460.6	2.72%
601	Economics of Agricultural Production and Farm Management	155.81	229.97	13.70	20.17	419.6	2.48%
201	Plant Genome, Genetics, and Genetic Mechanisms	245.92	131.78	12.21	5.47	395.4	2.34%
211	Insects, Mites, and Other Arthropods Affecting Plants	217.43	137.51	13.36	8.81	377.1	2.23%
608	Community Resource Planning and Development	45.46	280.77	4.84	27.55	358.6	2.12%
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	141.69	182.73	14.72	7.78	346.9	2.05%
112	Watershed Protection and Management	132.82	189.51	13.51	1.98	337.8	2.00%
302	Nutrient Utilization in Animals	180.85	115.10	22.66	7.34	325.9	1.93%
724	Healthy Lifestyle	37.24	251.49	7.40	28.61	324.7	1.92%
311	Animal Diseases	203.10	98.70	6.87	6.28	315.0	1.86%
805	Community Institutions, Health, and Social Services	49.85	234.70	4.20	15.68	304.4	1.80%
204	Plant Product Quality and Utility (Preharvest)	168.13	100.79	2.40	2.63	273.9	1.62%
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	29.59	225.27	4.62	14.25	273.7	1.62%
301	Reproductive Performance of Animals	137.67	101.50	10.61	8.68	258.5	1.53%
123	Management and Sustainability of Forest Resources	131.06	108.95	4.68	6.64	251.3	1.49%
604	Marketing and Distribution Practices	80.92	144.26	8.96	13.90	248.0	1.47%
213	Weeds Affecting Plants	133.46	97.41	3.83	6.55	241.2	1.43%
133	Pollution Prevention and Mitigation	119.14	107.81	11.30	2.18	240.4	1.42%
501	New and Improved Food Processing Technologies	116.95	101.18	5.30	5.92	229.3	1.36%
202	Plant Genetic Resources	147.23	62.97	14.82	1.37	226.4	1.34%
206	Basic Plant Biology	142.66	72.08	4.36	3.70	222.8	1.32%
702	Requirements and Function of Nutrients and Other Food Components	92.64	100.44	7.64	7.10	207.8	1.23%

602	Business Management, Finance, and Taxation	66.78	108.58	4.42	20.04	199.8	1.18%
111	Conservation and Efficient Use of Water	75.60	111.03	6.16	4.45	197.2	1.17%
502	New and Improved Food Products	107.00	72.64	7.94	1.81	189.4	1.12%
135	Aquatic and Terrestrial Wildlife	101.09	80.39	2.79	1.41	185.7	1.10%
605	Natural Resource and Environmental Economics	84.13	80.98	1.10	4.67	170.9	1.01%
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants	109.93	49.31	4.89	4.66	168.8	1.00%
403	Waste Disposal, Recycling, and Reuse	79.98	69.78	6.48	2.45	158.7	0.94%
215	Biological Control of Pests Affecting Plants	90.16	53.31	7.70	2.01	153.2	0.91%
723	Hazards to Human Health and Safety	48.82	81.42	2.56	6.25	139.1	0.82%
303	Genetic Improvement of Animals	70.60	49.75	6.34	4.64	131.3	0.78%
121	Management of Range Resources	63.68	60.66	1.80	0.80	126.9	0.75%
131	Alternative Uses of Land	45.79	66.31	2.85	3.31	118.3	0.70%
610	Domestic Policy Analysis	37.35	69.61	4.80	2.90	114.7	0.68%
315	Animal Welfare/Well-Being and Protection	41.26	59.28	0.12	1.52	102.2	0.60%
511	New and Improved Non-Food Products and Processes	69.49	30.19	0.42	0.47	100.6	0.59%
101	Appraisal of Soil Resources	60.79	37.72	0.84	0.27	99.6	0.59%
903	Communication, Education, and Information Delivery	22.09	72.29	0.20	2.38	97.0	0.57%
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources	41.33	45.27	4.35	1.46	92.4	0.55%
701	Nutrient Composition of Food	24.62	53.81	5.92	4.04	88.4	0.52%
603	Market Economics	40.68	39.85	2.31	1.67	84.5	0.50%
305	Animal Physiological Processes	55.70	23.40	4.37	0.87	84.3	0.50%
308	Improved Animal Products (Before Harvest)	35.28	39.02	6.30	3.73	84.3	0.50%
503	Quality Maintenance in Storing and Marketing Food Products	33.01	44.11	4.41	1.03	82.5	0.49%
402	Engineering Systems and Equipment	34.03	40.14	1.17	2.39	77.7	0.46%
304	Animal Genome	57.29	10.86	6.50	0.00	74.6	0.44%
607	Consumer Economics	19.68	48.41	0.91	5.31	74.3	0.44%
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures	8.20	50.62	3.05	7.78	69.7	0.41%
704	Nutrition and Hunger in the Population	7.50	57.79	0.30	3.45	69.0	0.41%
306	Environmental Stress in Animals	40.13	27.72	0.22	0.37	68.4	0.40%
132	Weather and Climate	25.16	27.73	2.06	0.88	55.8	0.33%
722	Zoonotic Diseases and Parasites Affecting Humans	36.74	16.76	0.02	0.20	53.7	0.32%
124	Urban Forestry	25.20	22.13	2.09	2.03	51.5	0.30%
136	Conservation of Biological Diversity	14.64	30.61	1.33	0.98	47.6	0.28%
401	Structures, Facilities, and General Purpose Farm Supplies	13.80	26.32	2.12	1.99	44.2	0.26%

721	Insects and Other Pests Affecting Humans	16.13	24.92	2.11	0.80	43.9	0.26%
504	Home and Commercial Food Service	9.13	29.89	1.46	2.55	43.0	0.25%
104	Protect Soil from Harmful Effects of Natural Elements	10.77	24.95	1.73	0.66	38.1	0.23%
125	Agroforestry	23.33	11.65	1.61	1.41	38.0	0.22%
141	Air Resource Protection and Management	11.09	24.40	0.78	0.90	37.2	0.22%
901	Program and Project Design, and Statistics	7.81	27.33	0.00	1.94	37.1	0.22%
312	External Parasites and Pests of Animals	18.53	16.48	0.35	1.01	36.4	0.22%
609	Economic Theory and Methods	11.59	18.57	2.65	2.85	35.7	0.21%
606	International Trade and Development	18.76	15.00	0.00	0.00	33.8	0.20%
405	Drainage and Irrigation Systems and Facilities	15.19	17.41	0.30	0.79	33.7	0.20%
314	Toxic Chemicals, Poisonous Plants, Naturally Occurring Toxins, and Other Hazards Affecting Animals	23.76	7.27	0.70	0.05	31.8	0.19%
902	Administration of Projects and Programs	1.87	29.71	0.00	0.10	31.7	0.19%
313	Internal Parasites in Animals	12.40	11.71	4.36	1.66	30.1	0.18%
134	Outdoor Recreation	9.87	15.55	1.86	1.58	28.9	0.17%
404	Instrumentation and Control Systems	10.00	9.76	0.15	1.11	21.0	0.12%
214	Vertebrates, Mollusks, and Other Pests Affecting Plants	9.63	9.44	0.00	0.43	19.5	0.12%
122	Management and Control of Forest and Range Fires	8.91	7.29	0.00	0.00	16.2	0.10%
103	Management of Saline and Sodic Soils and Salinity	4.32	6.46	1.56	0.10	12.4	0.07%
611	Foreign Policy and Programs	4.04	4.27	0.86	0.03	9.2	0.05%
512	Quality Maintenance in Storing and Marketing Non-Food Products	5.06	2.10	0.00	0.05	7.2	0.04%
Totals		6496.1	9397.5	434.2	592.8	16920.6	100.00%

FTEs by Knowledge Areas for 1862 Research

KA Code	KA Text	1862 Res.	Percentages
205	Plant Management Systems	460.93	7.10%
212	Pathogens and Nematodes Affecting Plants	339.88	5.23%
216	Integrated Pest Management Systems	267.59	4.12%
307	Animal Management Systems	259.25	3.99%
201	Plant Genome, Genetics, and Genetic Mechanisms	245.92	3.79%
102	Soil, Plant, Water, Nutrient Relationships	241.53	3.72%
211	Insects, Mites, and Other Arthropods Affecting Plants	217.43	3.35%
311	Animal Diseases	203.10	3.13%
302	Nutrient Utilization in Animals	180.85	2.78%
204	Plant Product Quality and Utility (Preharvest)	168.13	2.59%
601	Economics of Agricultural Production and Farm Management	155.81	2.40%
202	Plant Genetic Resources	147.23	2.27%
206	Basic Plant Biology	142.66	2.20%
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	141.69	2.18%
301	Reproductive Performance of Animals	137.67	2.12%
213	Weeds Affecting Plants	133.46	2.05%
112	Watershed Protection and Management	132.82	2.04%
123	Management and Sustainability of Forest Resources	131.06	2.02%
133	Pollution Prevention and Mitigation	119.14	1.83%
501	New and Improved Food Processing Technologies	116.95	1.80%
703	Nutrition Education and Behavior	111.43	1.72%
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants	109.93	1.69%
502	New and Improved Food Products	107.00	1.65%
135	Aquatic and Terrestrial Wildlife	101.09	1.56%
702	Requirements and Function of Nutrients and Other Food Components	92.64	1.43%
215	Biological Control of Pests Affecting Plants	90.16	1.39%
605	Natural Resource and Environmental Economics	84.13	1.30%
604	Marketing and Distribution Practices	80.92	1.25%
403	Waste Disposal, Recycling, and Reuse	79.98	1.23%
806	Youth Development	78.41	1.21%
111	Conservation and Efficient Use of Water	75.60	1.16%

303	Genetic Improvement of Animals	70.60	1.09%
802	Human Development and Family Well-Being	69.66	1.07%
511	New and Improved Non-Food Products and Processes	69.49	1.07%
602	Business Management, Finance, and Taxation	66.78	1.03%
121	Management of Range Resources	63.68	0.98%
101	Appraisal of Soil Resources	60.79	0.94%
304	Animal Genome	57.29	0.88%
305	Animal Physiological Processes	55.70	0.86%
805	Community Institutions, Health, and Social Services	49.85	0.77%
723	Hazards to Human Health and Safety	48.82	0.75%
131	Alternative Uses of Land	45.79	0.70%
608	Community Resource Planning and Development	45.46	0.70%
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources	41.33	0.64%
315	Animal Welfare/Well-Being and Protection	41.26	0.64%
603	Market Economics	40.68	0.63%
306	Environmental Stress in Animals	40.13	0.62%
801	Individual and Family Resource Management	38.13	0.59%
610	Domestic Policy Analysis	37.35	0.57%
724	Healthy Lifestyle	37.24	0.57%
722	Zoonotic Diseases and Parasites Affecting Humans	36.74	0.57%
308	Improved Animal Products (Before Harvest)	35.28	0.54%
402	Engineering Systems and Equipment	34.03	0.52%
503	Quality Maintenance in Storing and Marketing Food Products	33.01	0.51%
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	29.59	0.46%
124	Urban Forestry	25.20	0.39%
132	Weather and Climate	25.16	0.39%
701	Nutrient Composition of Food	24.62	0.38%
314	Toxic Chemicals, Poisonous Plants, Naturally Occurring Toxins, and Other Hazards Affecting Animals	23.76	0.37%
125	Agroforestry	23.33	0.36%
903	Communication, Education, and Information Delivery	22.09	0.34%
607	Consumer Economics	19.68	0.30%
606	International Trade and Development	18.76	0.29%
312	External Parasites and Pests of Animals	18.53	0.29%

Appendix D – FTE Data from the 2007-2011 Plan of Work

721	Insects and Other Pests Affecting Humans	16.13	0.25%
405	Drainage and Irrigation Systems and Facilities	15.19	0.23%
136	Conservation of Biological Diversity	14.64	0.23%
401	Structures, Facilities, and General Purpose Farm Supplies	13.80	0.21%
313	Internal Parasites in Animals	12.40	0.19%
609	Economic Theory and Methods	11.59	0.18%
141	Air Resource Protection and Management	11.09	0.17%
104	Protect Soil from Harmful Effects of Natural Elements	10.77	0.17%
404	Instrumentation and Control Systems	10.00	0.15%
134	Outdoor Recreation	9.87	0.15%
214	Vertebrates, Mollusks, and Other Pests Affecting Plants	9.63	0.15%
504	Home and Commercial Food Service	9.13	0.14%
122	Management and Control of Forest and Range Fires	8.91	0.14%
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures	8.20	0.13%
901	Program and Project Design, and Statistics	7.81	0.12%
704	Nutrition and Hunger in the Population	7.50	0.12%
512	Quality Maintenance in Storing and Marketing Non-Food Products	5.06	0.08%
103	Management of Saline and Sodic Soils and Salinity	4.32	0.07%
611	Foreign Policy and Programs	4.04	0.06%
902	Administration of Projects and Programs	1.87	0.03%
Totals		6496.1	100.00%

Appendix D – FTE Data from the 2007-2011 Plan of Work

FTEs by Knowledge Areas for 1862 Extension

KA Code	KA Text	1862 Ext.	Percentages
806	Youth Development	1479.00	15.74%
802	Human Development and Family Well-Being	557.85	5.94%
205	Plant Management Systems	472.87	5.03%
703	Nutrition Education and Behavior	438.28	4.66%
801	Individual and Family Resource Management	394.90	4.20%
608	Community Resource Planning and Development	280.77	2.99%
724	Healthy Lifestyle	251.49	2.68%
307	Animal Management Systems	248.59	2.65%
216	Integrated Pest Management Systems	245.99	2.62%
102	Soil, Plant, Water, Nutrient Relationships	241.58	2.57%
805	Community Institutions, Health, and Social Services	234.70	2.50%
601	Economics of Agricultural Production and Farm Management	229.97	2.45%
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	225.27	2.40%
112	Watershed Protection and Management	189.51	2.02%
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	182.73	1.94%
212	Pathogens and Nematodes Affecting Plants	171.65	1.83%
604	Marketing and Distribution Practices	144.26	1.54%
211	Insects, Mites, and Other Arthropods Affecting Plants	137.51	1.46%
201	Plant Genome, Genetics, and Genetic Mechanisms	131.78	1.40%
302	Nutrient Utilization in Animals	115.10	1.22%
111	Conservation and Efficient Use of Water	111.03	1.18%
123	Management and Sustainability of Forest Resources	108.95	1.16%
602	Business Management, Finance, and Taxation	108.58	1.16%
133	Pollution Prevention and Mitigation	107.81	1.15%
301	Reproductive Performance of Animals	101.50	1.08%
501	New and Improved Food Processing Technologies	101.18	1.08%
204	Plant Product Quality and Utility (Preharvest)	100.79	1.07%
702	Requirements and Function of Nutrients and Other Food Components	100.44	1.07%
311	Animal Diseases	98.70	1.05%
213	Weeds Affecting Plants	97.41	1.04%

723	Hazards to Human Health and Safety	81.42	0.87%
605	Natural Resource and Environmental Economics	80.98	0.86%
135	Aquatic and Terrestrial Wildlife	80.39	0.86%
502	New and Improved Food Products	72.64	0.77%
903	Communication, Education, and Information Delivery	72.29	0.77%
206	Basic Plant Biology	72.08	0.77%
403	Waste Disposal, Recycling, and Reuse	69.78	0.74%
610	Domestic Policy Analysis	69.61	0.74%
131	Alternative Uses of Land	66.31	0.71%
202	Plant Genetic Resources	62.97	0.67%
121	Management of Range Resources	60.66	0.65%
315	Animal Welfare/Well-Being and Protection	59.28	0.63%
704	Nutrition and Hunger in the Population	57.79	0.61%
701	Nutrient Composition of Food	53.81	0.57%
215	Biological Control of Pests Affecting Plants	53.31	0.57%
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures	50.62	0.54%
303	Genetic Improvement of Animals	49.75	0.53%
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants	49.31	0.52%
607	Consumer Economics	48.41	0.52%
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources	45.27	0.48%
503	Quality Maintenance in Storing and Marketing Food Products	44.11	0.47%
402	Engineering Systems and Equipment	40.14	0.43%
603	Market Economics	39.85	0.42%
308	Improved Animal Products (Before Harvest)	39.02	0.42%
101	Appraisal of Soil Resources	37.72	0.40%
136	Conservation of Biological Diversity	30.61	0.33%
511	New and Improved Non-Food Products and Processes	30.19	0.32%
504	Home and Commercial Food Service	29.89	0.32%
902	Administration of Projects and Programs	29.71	0.32%
132	Weather and Climate	27.73	0.30%
306	Environmental Stress in Animals	27.72	0.30%
901	Program and Project Design, and Statistics	27.33	0.29%
401	Structures, Facilities, and General Purpose Farm Supplies	26.32	0.28%
104	Protect Soil from Harmful Effects of Natural Elements	24.95	0.27%

721	Insects and Other Pests Affecting Humans	24.92	0.27%
141	Air Resource Protection and Management	24.40	0.26%
305	Animal Physiological Processes	23.40	0.25%
124	Urban Forestry	22.13	0.24%
609	Economic Theory and Methods	18.57	0.20%
405	Drainage and Irrigation Systems and Facilities	17.41	0.19%
722	Zoonotic Diseases and Parasites Affecting Humans	16.76	0.18%
312	External Parasites and Pests of Animals	16.48	0.18%
134	Outdoor Recreation	15.55	0.17%
606	International Trade and Development	15.00	0.16%
313	Internal Parasites in Animals	11.71	0.12%
125	Agroforestry	11.65	0.12%
304	Animal Genome	10.86	0.12%
404	Instrumentation and Control Systems	9.76	0.10%
214	Vertebrates, Mollusks, and Other Pests Affecting Plants	9.44	0.10%
122	Management and Control of Forest and Range Fires	7.29	0.08%
314	Toxic Chemicals, Poisonous Plants, Naturally Occurring Toxins, and Other Hazards Affecting Animals	7.27	0.08%
103	Management of Saline and Sodic Soils and Salinity	6.46	0.07%
611	Foreign Policy and Programs	4.27	0.05%
512	Quality Maintenance in Storing and Marketing Non-Food Products	2.10	0.02%
Totals		9397.5	100.00%

FTEs by Knowledge Area for 1890 Research

KA Code	KA Text	1890 Res.	Percentages
205	Plant Management Systems	22.73	5.24%
302	Nutrient Utilization in Animals	22.66	5.22%
307	Animal Management Systems	20.78	4.79%
703	Nutrition Education and Behavior	17.94	4.13%
202	Plant Genetic Resources	14.82	3.41%
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	14.72	3.39%
601	Economics of Agricultural Production and Farm Management	13.70	3.16%
112	Watershed Protection and Management	13.51	3.11%
211	Insects, Mites, and Other Arthropods Affecting Plants	13.36	3.08%
102	Soil, Plant, Water, Nutrient Relationships	12.51	2.88%
201	Plant Genome, Genetics, and Genetic Mechanisms	12.21	2.81%
133	Pollution Prevention and Mitigation	11.30	2.60%
301	Reproductive Performance of Animals	10.61	2.44%
216	Integrated Pest Management Systems	10.31	2.37%
806	Youth Development	10.20	2.35%
212	Pathogens and Nematodes Affecting Plants	9.30	2.14%
604	Marketing and Distribution Practices	8.96	2.06%
502	New and Improved Food Products	7.94	1.83%
215	Biological Control of Pests Affecting Plants	7.70	1.77%
702	Requirements and Function of Nutrients and Other Food Components	7.64	1.76%
724	Healthy Lifestyle	7.40	1.70%
311	Animal Diseases	6.87	1.58%
802	Human Development and Family Well-Being	6.80	1.57%
304	Animal Genome	6.50	1.50%
403	Waste Disposal, Recycling, and Reuse	6.48	1.49%
303	Genetic Improvement of Animals	6.34	1.46%
308	Improved Animal Products (Before Harvest)	6.30	1.45%
111	Conservation and Efficient Use of Water	6.16	1.42%
701	Nutrient Composition of Food	5.92	1.36%
501	New and Improved Food Processing Technologies	5.30	1.22%
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants	4.89	1.13%

608	Community Resource Planning and Development	4.84	1.11%
610	Domestic Policy Analysis	4.80	1.10%
123	Management and Sustainability of Forest Resources	4.68	1.08%
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	4.62	1.06%
602	Business Management, Finance, and Taxation	4.42	1.02%
503	Quality Maintenance in Storing and Marketing Food Products	4.41	1.01%
305	Animal Physiological Processes	4.37	1.01%
313	Internal Parasites in Animals	4.36	1.01%
206	Basic Plant Biology	4.36	1.00%
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources	4.35	1.00%
805	Community Institutions, Health, and Social Services	4.20	0.97%
213	Weeds Affecting Plants	3.83	0.88%
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures	3.05	0.70%
131	Alternative Uses of Land	2.85	0.66%
135	Aquatic and Terrestrial Wildlife	2.79	0.64%
609	Economic Theory and Methods	2.65	0.61%
723	Hazards to Human Health and Safety	2.56	0.59%
204	Plant Product Quality and Utility (Preharvest)	2.40	0.55%
801	Individual and Family Resource Management	2.37	0.55%
603	Market Economics	2.31	0.53%
401	Structures, Facilities, and General Purpose Farm Supplies	2.12	0.49%
721	Insects and Other Pests Affecting Humans	2.11	0.48%
124	Urban Forestry	2.09	0.48%
132	Weather and Climate	2.06	0.47%
134	Outdoor Recreation	1.86	0.43%
121	Management of Range Resources	1.80	0.41%
104	Protect Soil from Harmful Effects of Natural Elements	1.73	0.40%
125	Agroforestry	1.61	0.37%
103	Management of Saline and Sodic Soils and Salinity	1.56	0.36%
504	Home and Commercial Food Service	1.46	0.34%
136	Conservation of Biological Diversity	1.33	0.31%
402	Engineering Systems and Equipment	1.17	0.27%
605	Natural Resource and Environmental Economics	1.10	0.25%

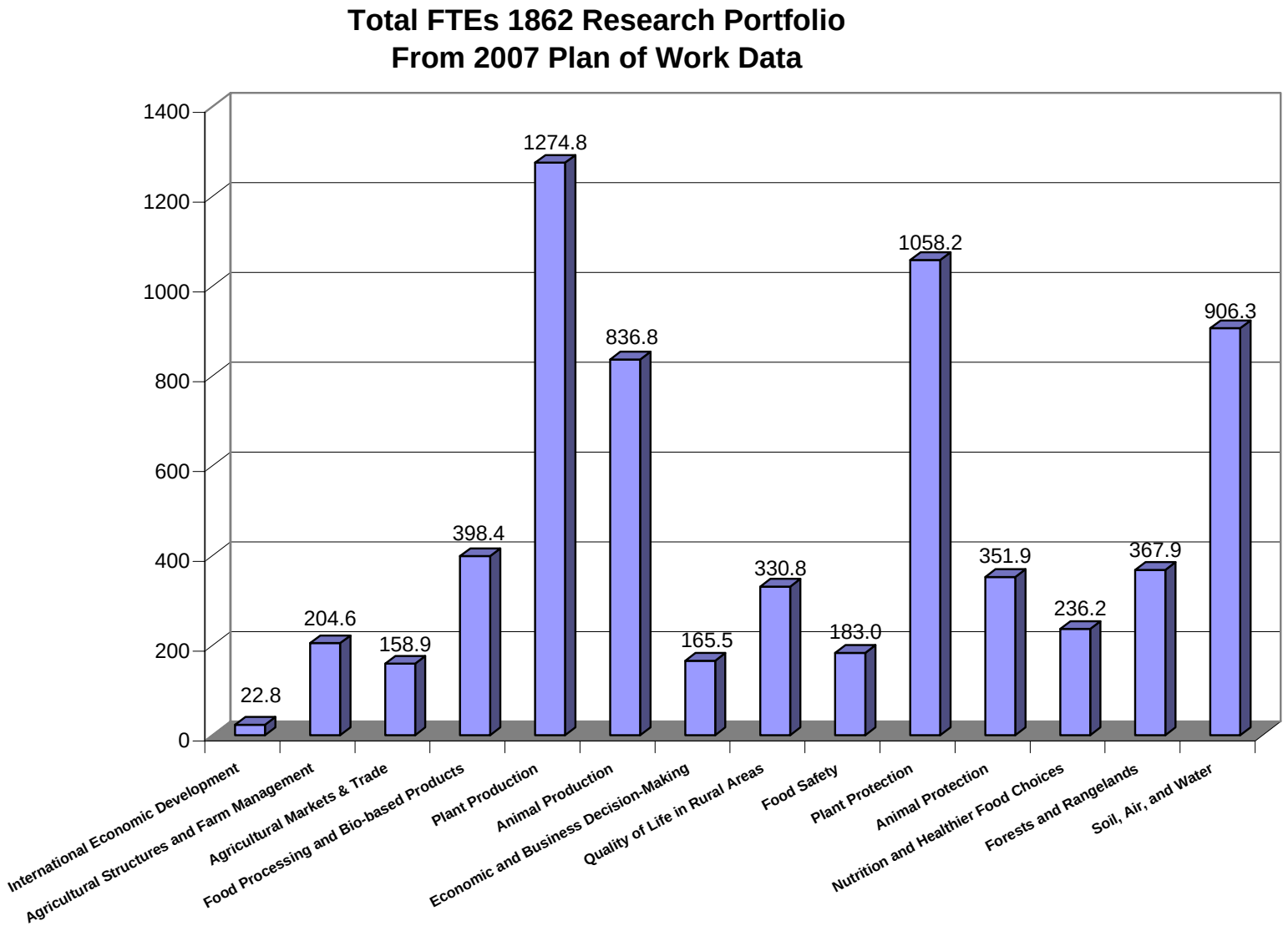
607	Consumer Economics	0.91	0.21%
611	Foreign Policy and Programs	0.86	0.20%
101	Appraisal of Soil Resources	0.84	0.19%
141	Air Resource Protection and Management	0.78	0.18%
314	Toxic Chemicals, Poisonous Plants, Naturally Occurring Toxins, and Other Hazards Affecting Animals	0.70	0.16%
511	New and Improved Non-Food Products and Processes	0.42	0.10%
312	External Parasites and Pests of Animals	0.35	0.08%
405	Drainage and Irrigation Systems and Facilities	0.30	0.07%
704	Nutrition and Hunger in the Population	0.30	0.07%
306	Environmental Stress in Animals	0.22	0.05%
903	Communication, Education, and Information Delivery	0.20	0.05%
404	Instrumentation and Control Systems	0.15	0.03%
315	Animal Welfare/Well-Being and Protection	0.12	0.03%
722	Zoonotic Diseases and Parasites Affecting Humans	0.02	0.00%
122	Management and Control of Forest and Range Fires	0.00	0.00%
214	Vertebrates, Mollusks, and Other Pests Affecting Plants	0.00	0.00%
512	Quality Maintenance in Storing and Marketing Non-Food Products	0.00	0.00%
606	International Trade and Development	0.00	0.00%
901	Program and Project Design, and Statistics	0.00	0.00%
902	Administration of Projects and Programs	0.00	0.00%
Totals		434.2	100.00%

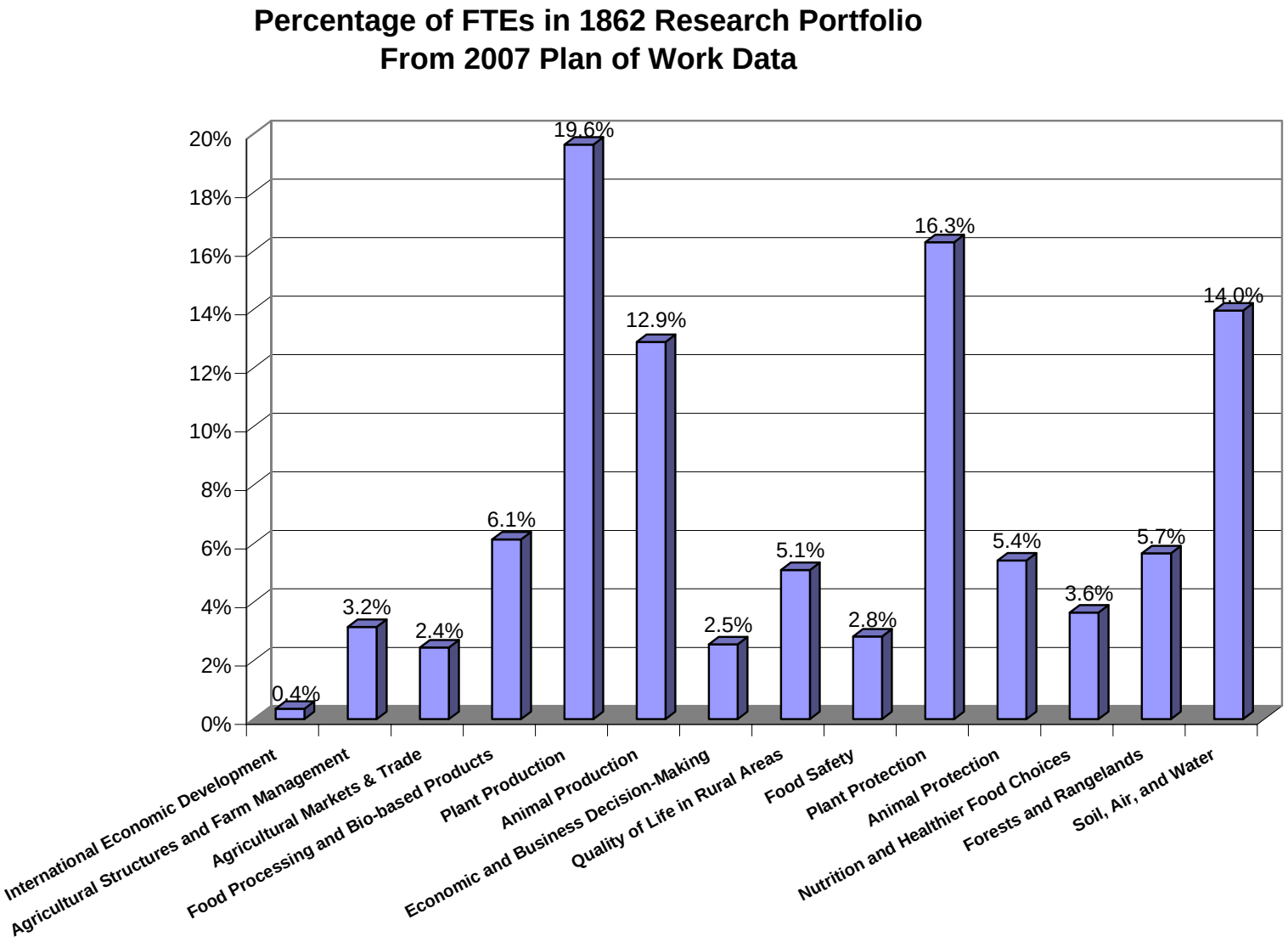
FTEs by Knowledge Areas for 1890 Extension

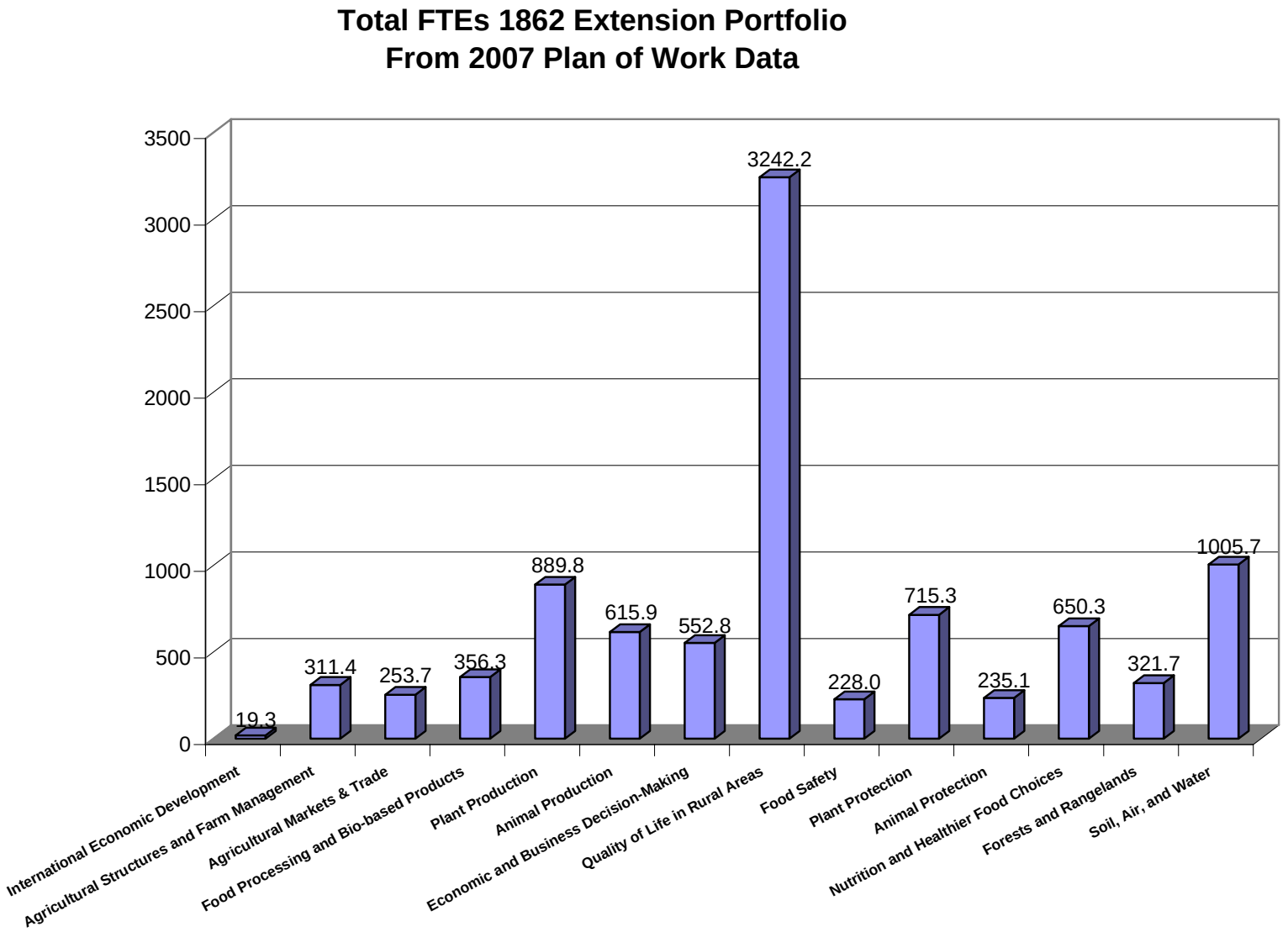
KA Code	KA Text	1890 Ext.	Percentages
806	Youth Development	101.84	17.18%
802	Human Development and Family Well-Being	50.68	8.55%
724	Healthy Lifestyle	28.61	4.83%
608	Community Resource Planning and Development	27.55	4.65%
703	Nutrition Education and Behavior	27.26	4.60%
801	Individual and Family Resource Management	25.23	4.26%
205	Plant Management Systems	24.83	4.19%
601	Economics of Agricultural Production and Farm Management	20.17	3.40%
602	Business Management, Finance, and Taxation	20.04	3.38%
102	Soil, Plant, Water, Nutrient Relationships	16.11	2.72%
805	Community Institutions, Health, and Social Services	15.68	2.65%
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	14.25	2.40%
604	Marketing and Distribution Practices	13.90	2.34%
307	Animal Management Systems	12.75	2.15%
211	Insects, Mites, and Other Arthropods Affecting Plants	8.81	1.49%
301	Reproductive Performance of Animals	8.68	1.46%
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures	7.78	1.31%
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	7.78	1.31%
302	Nutrient Utilization in Animals	7.34	1.24%
702	Requirements and Function of Nutrients and Other Food Components	7.10	1.20%
212	Pathogens and Nematodes Affecting Plants	6.93	1.17%
123	Management and Sustainability of Forest Resources	6.64	1.12%
213	Weeds Affecting Plants	6.55	1.10%
311	Animal Diseases	6.28	1.06%
723	Hazards to Human Health and Safety	6.25	1.05%
501	New and Improved Food Processing Technologies	5.92	1.00%
201	Plant Genome, Genetics, and Genetic Mechanisms	5.47	0.92%
607	Consumer Economics	5.31	0.90%
605	Natural Resource and Environmental Economics	4.67	0.79%
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants	4.66	0.79%

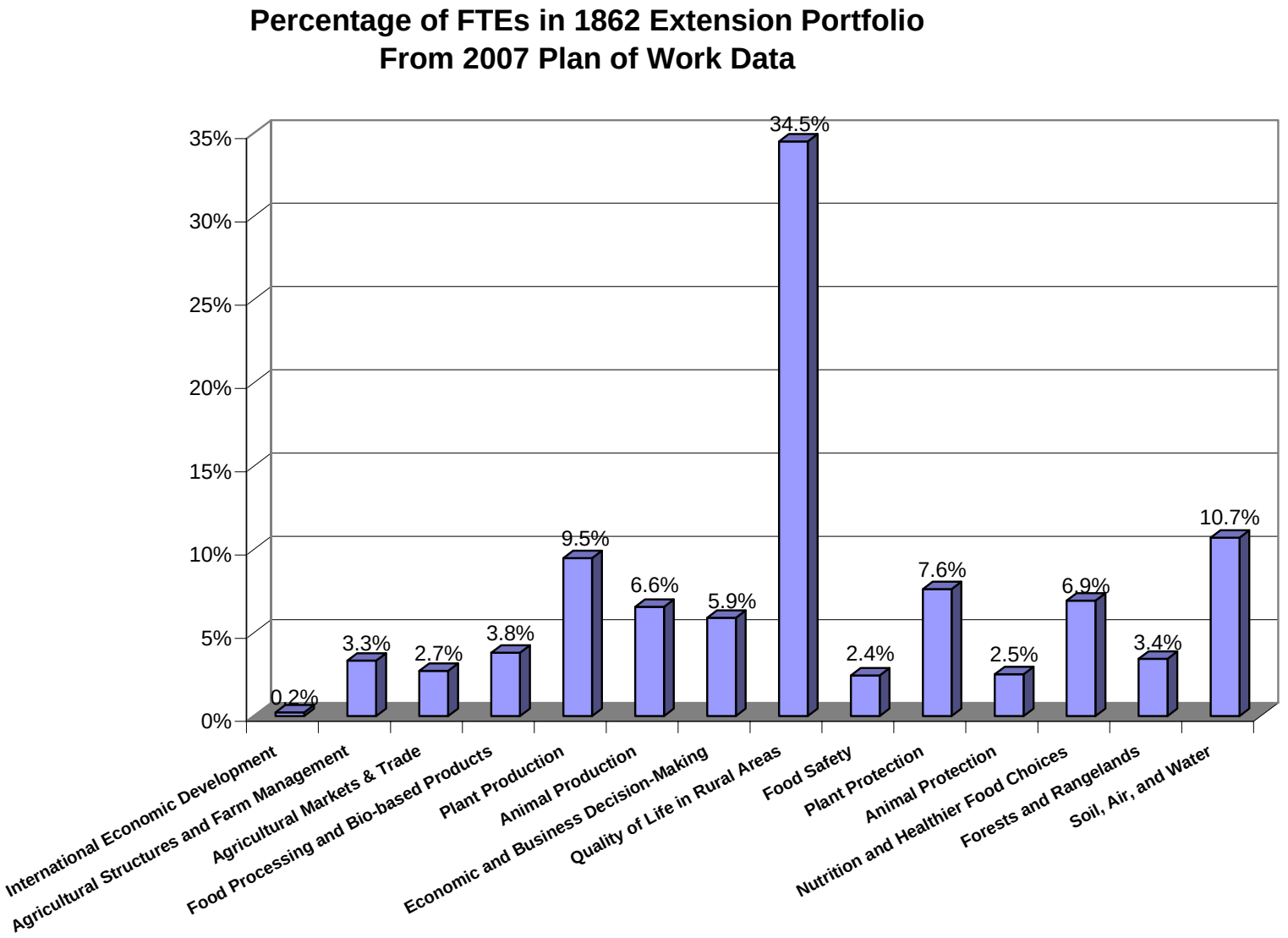
303	Genetic Improvement of Animals	4.64	0.78%
111	Conservation and Efficient Use of Water	4.45	0.75%
216	Integrated Pest Management Systems	4.41	0.74%
701	Nutrient Composition of Food	4.04	0.68%
308	Improved Animal Products (Before Harvest)	3.73	0.63%
206	Basic Plant Biology	3.70	0.62%
704	Nutrition and Hunger in the Population	3.45	0.58%
131	Alternative Uses of Land	3.31	0.56%
610	Domestic Policy Analysis	2.90	0.49%
609	Economic Theory and Methods	2.85	0.48%
204	Plant Product Quality and Utility (Preharvest)	2.63	0.44%
504	Home and Commercial Food Service	2.55	0.43%
403	Waste Disposal, Recycling, and Reuse	2.45	0.41%
402	Engineering Systems and Equipment	2.39	0.40%
903	Communication, Education, and Information Delivery	2.38	0.40%
133	Pollution Prevention and Mitigation	2.18	0.37%
124	Urban Forestry	2.03	0.34%
215	Biological Control of Pests Affecting Plants	2.01	0.34%
401	Structures, Facilities, and General Purpose Farm Supplies	1.99	0.34%
112	Watershed Protection and Management	1.98	0.33%
901	Program and Project Design, and Statistics	1.94	0.33%
502	New and Improved Food Products	1.81	0.31%
603	Market Economics	1.67	0.28%
313	Internal Parasites in Animals	1.66	0.28%
134	Outdoor Recreation	1.58	0.27%
315	Animal Welfare/Well-Being and Protection	1.52	0.26%
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources	1.46	0.25%
125	Agroforestry	1.41	0.24%
135	Aquatic and Terrestrial Wildlife	1.41	0.24%
202	Plant Genetic Resources	1.37	0.23%
404	Instrumentation and Control Systems	1.11	0.19%
503	Quality Maintenance in Storing and Marketing Food Products	1.03	0.17%
312	External Parasites and Pests of Animals	1.01	0.17%
136	Conservation of Biological Diversity	0.98	0.17%
141	Air Resource Protection and Management	0.90	0.15%

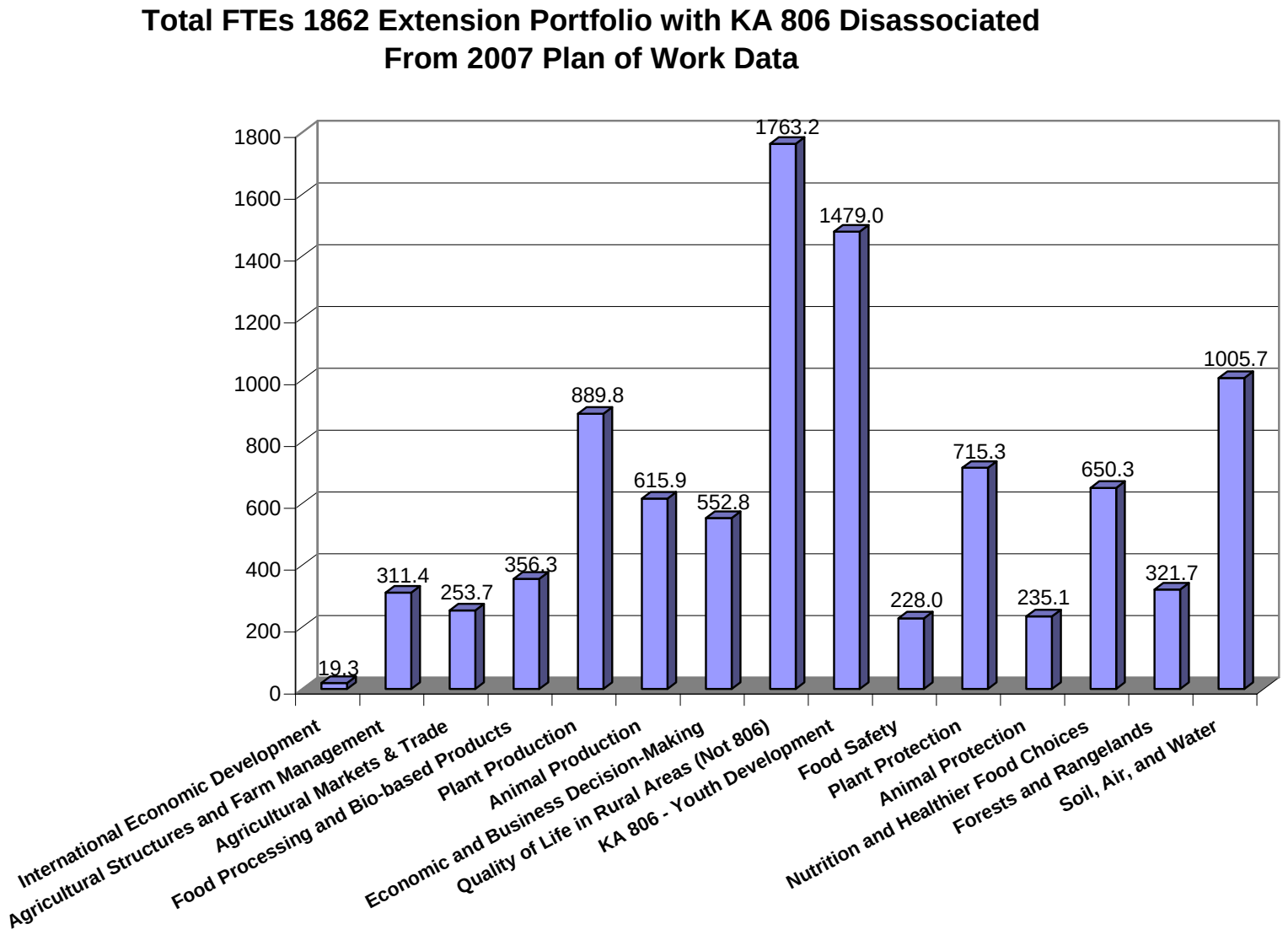
132	Weather and Climate	0.88	0.15%
305	Animal Physiological Processes	0.87	0.15%
121	Management of Range Resources	0.80	0.13%
721	Insects and Other Pests Affecting Humans	0.80	0.13%
405	Drainage and Irrigation Systems and Facilities	0.79	0.13%
104	Protect Soil from Harmful Effects of Natural Elements	0.66	0.11%
511	New and Improved Non-Food Products and Processes	0.47	0.08%
214	Vertebrates, Mollusks, and Other Pests Affecting Plants	0.43	0.07%
306	Environmental Stress in Animals	0.37	0.06%
101	Appraisal of Soil Resources	0.27	0.05%
722	Zoonotic Diseases and Parasites Affecting Humans	0.20	0.03%
103	Management of Saline and Sodic Soils and Salinity	0.10	0.02%
902	Administration of Projects and Programs	0.10	0.02%
314	Toxic Chemicals, Poisonous Plants, Naturally Occurring Toxins, and Other Hazards Affecting Animals	0.05	0.01%
512	Quality Maintenance in Storing and Marketing Non-Food Products	0.05	0.01%
611	Foreign Policy and Programs	0.03	0.00%
122	Management and Control of Forest and Range Fires	0.00	0.00%
304	Animal Genome	0.00	0.00%
606	International Trade and Development	0.00	0.00%
Totals		592.8	100.00%


Total FTEs 1862 Research Portfolio
From 2007 Plan of Work Data
1400
1200
1000
800
600
400
200
0
22.8
204.6
158.9
398.4
1274.8
836.8
165.5
330.8
183.0
1058.2
351.9
236.2
367.9
906.3
International Economic Development
Agricultural Structures and Farm Management
Agricultural Markets & Trade
Food Processing and Bio-based Products
Plant Production
Animal Production
Economic and Business Decision-Making
Quality of Life in Rural Areas
Food Safety
Plant Protection
Animal Protection
Nutrition and Healthier Food Choices
Forests and Rangelands
Soil, Air, and Water

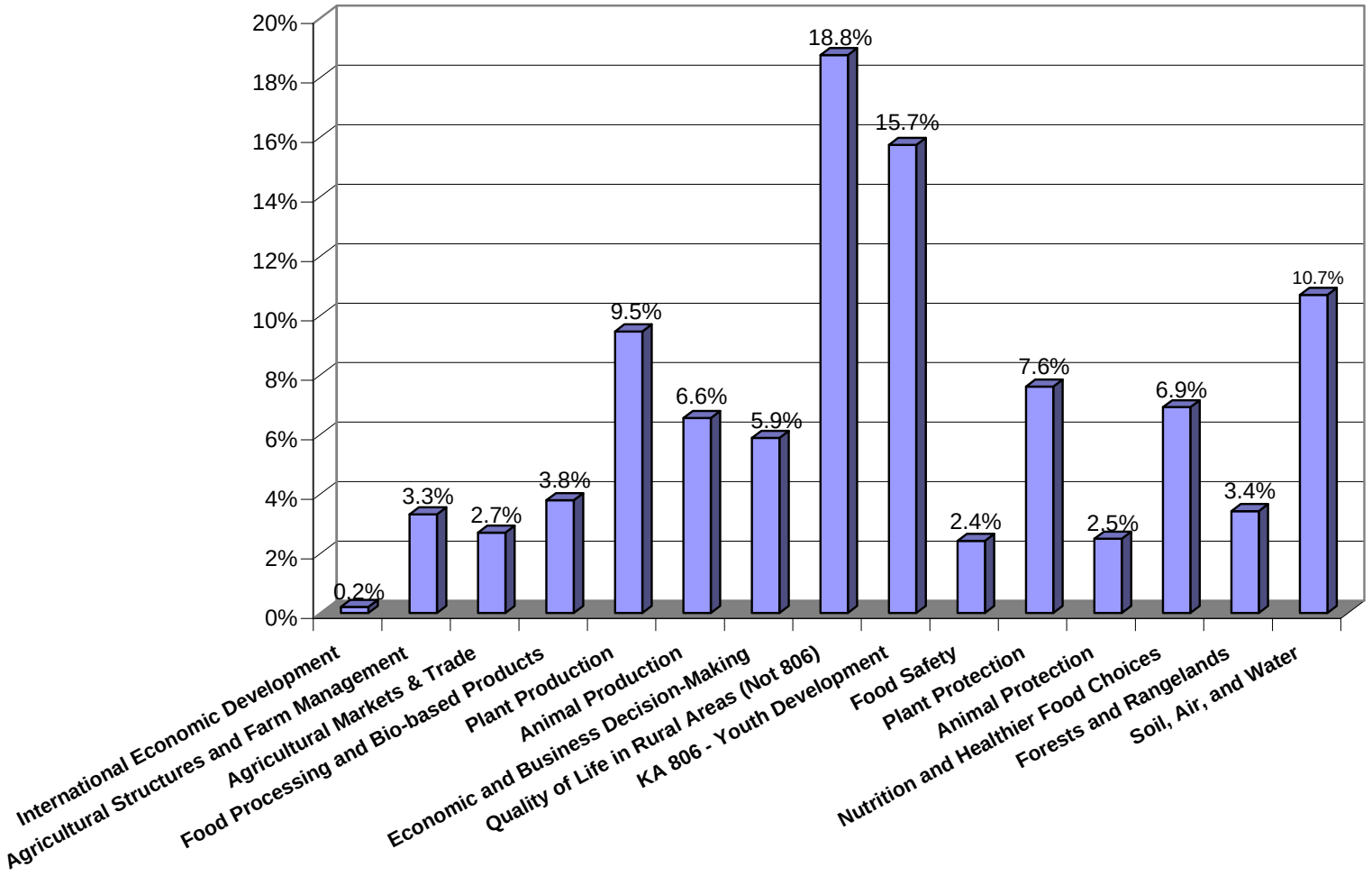

Percentage of FTEs in 1862 Research Portfolio
From 2007 Plan of Work Data
20%
18%
16%
14%
12%
10%
8%
6%
4%
2%
0%
0.4%
3.2%
2.4%
6.1%
19.6%
12.9%
2.5%
5.1%
2.8%
16.3%
5.4%
3.6%
5.7%
14.0%
International Economic Development
Agricultural Structures and Farm Management
Agricultural Markets & Trade
Food Processing and Bio-based Products
Plant Production
Animal Production
Economic and Business Decision-Making
Quality of Life in Rural Areas
Food Safety
Plant Protection
Animal Protection
Nutrition and Healthier Food Choices
Forests and Rangelands
Soil, Air, and Water

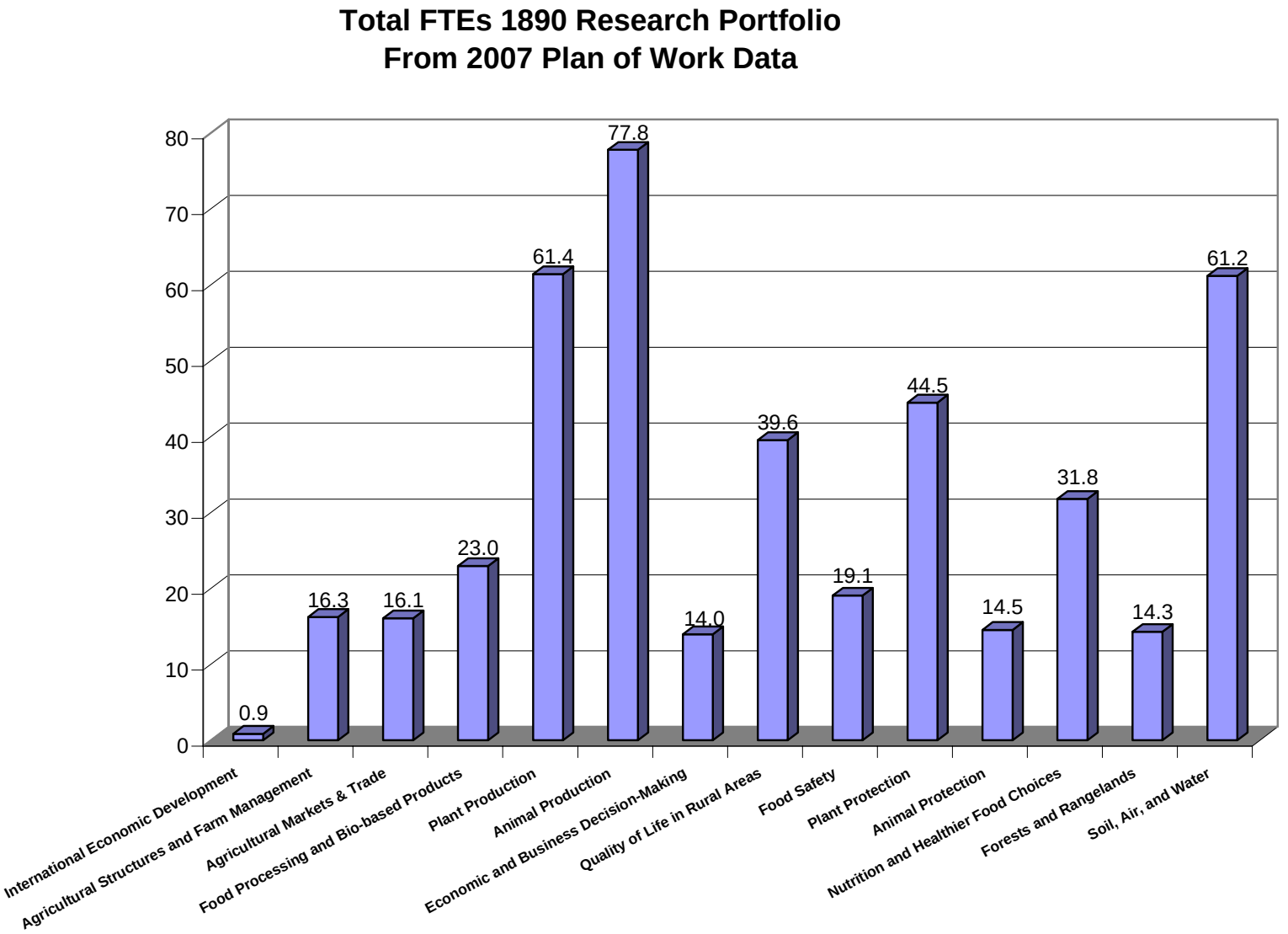

Total FTEs 1862 Extension Portfolio
From 2007 Plan of Work Data
3500
3000
2500
2000
1500
1000
500
0
19.3
311.4
253.7
356.3
889.8
615.9
552.8
3242.2
228.0
715.3
235.1
650.3
321.7
1005.7
International Economic Development
Agricultural Structures and Farm Management
Agricultural Markets & Trade
Food Processing and Bio-based Products
Plant Production
Animal Production
Economic and Business Decision-Making
Quality of Life in Rural Areas
Food Safety
Plant Protection
Animal Protection
Nutrition and Healthier Food Choices
Forests and Rangelands
Soil, Air, and Water

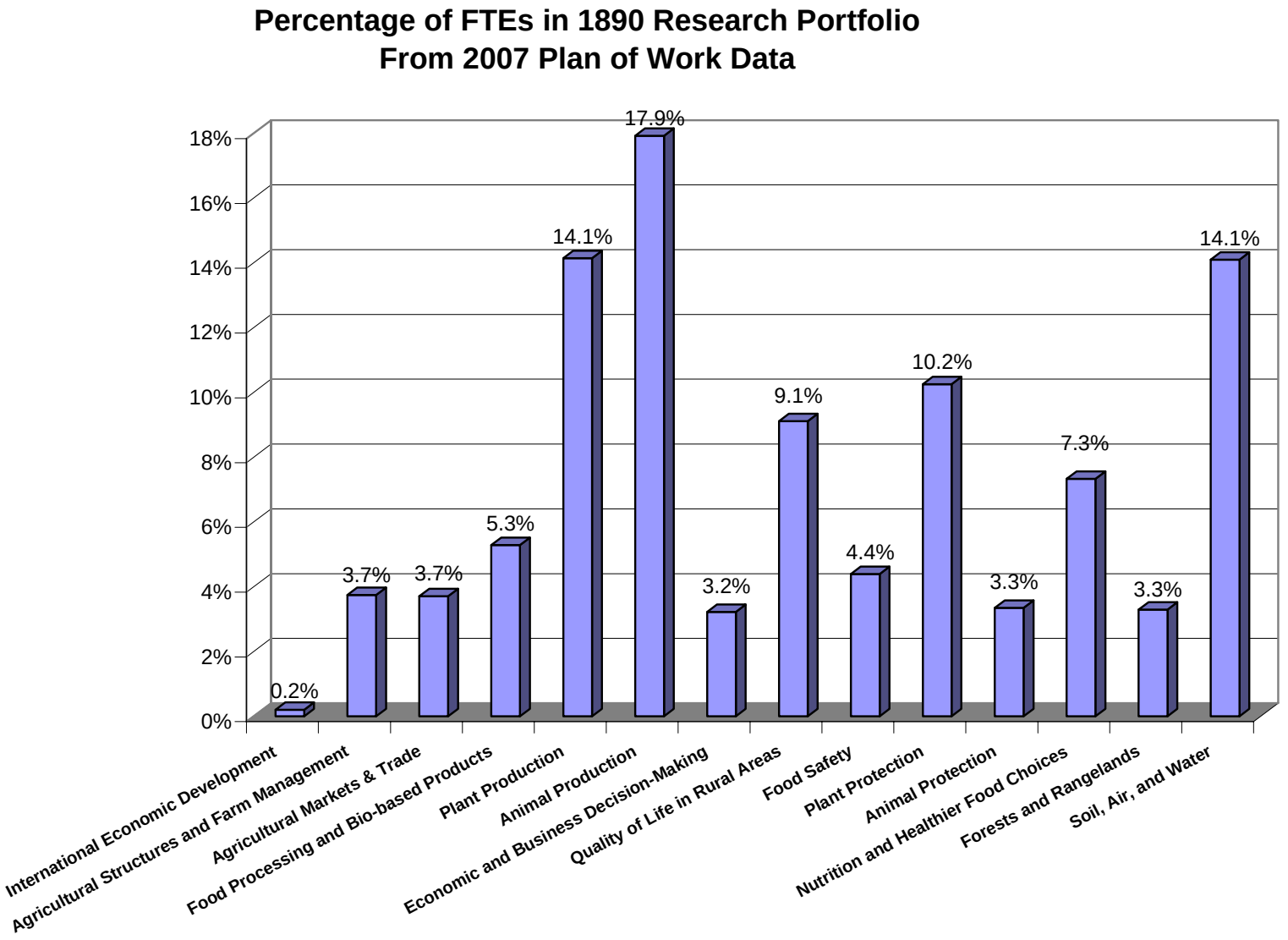

Percentage of FTEs in 1862 Extension Portfolio
From 2007 Plan of Work Data
35%
30%
25%
20%
15%
10%
5%
0%
0.2%
3.3%
2.7%
3.8%
9.5%
6.6%
5.9%
34.5%
2.4%
7.6%
2.5%
6.9%
3.4%
10.7%
International Economic Development
Agricultural Structures and Farm Management
Agricultural Markets & Trade
Food Processing and Bio-based Products
Plant Production
Animal Production
Economic and Business Decision-Making
Quality of Life in Rural Areas
Food Safety
Plant Protection
Animal Protection
Nutrition and Healthier Food Choices
Forests and Rangelands
Soil, Air, and Water


Total FTEs 1862 Extension Portfolio with KA 806 Disassociated
From 2007 Plan of Work Data
1800
1600
1400
1200
1000
800
600
400
200
0
19.3
311.4
253.7
356.3
889.8
615.9
552.8
1763.2
1479.0
228.0
715.3
235.1
650.3
321.7
1005.7
International Economic Development
Agricultural Structures and Farm Management
Agricultural Markets & Trade
Food Processing and Bio-based Products
Plant Production
Animal Production
Economic and Business Decision-Making
Quality of Life in Rural Areas (Not 806)
KA 806 - Youth Development
Food Safety
Plant Protection
Animal Protection
Nutrition and Healthier Food Choices
Forests and Rangelands
Soil, Air, and Water

Percentage of FTEs in 1862 Extension Portfolio with KA 806 Disassociated From 2007 Plan of Work Data




Total FTEs 1890 Research Portfolio
From 2007 Plan of Work Data
80
70
60
50
40
30
20
10
0
0.9
16.3
16.1
23.0
61.4
77.8
14.0
39.6
19.1
44.5
14.5
31.8
14.3
61.2
International Economic Development
Agricultural Structures and Farm Management
Agricultural Markets & Trade
Food Processing and Bio-based Products
Plant Production
Animal Production
Economic and Business Decision-Making
Quality of Life in Rural Areas
Food Safety
Plant Protection
Animal Protection
Nutrition and Healthier Food Choices
Forests and Rangelands
Soil, Air, and Water


Percentage of FTEs in 1890 Research Portfolio
From 2007 Plan of Work Data
18%
16%
14%
12%
10%
8%
6%
4%
2%
0%
0.2%
3.7%
3.7%
5.3%
14.1%
17.9%
3.2%
9.1%
4.4%
10.2%
3.3%
7.3%
3.3%
14.1%
International Economic Development
Agricultural Structures and Farm Management
Agricultural Markets & Trade
Food Processing and Bio-based Products
Plant Production
Animal Production
Economic and Business Decision-Making
Quality of Life in Rural Areas
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Animal Protection
Nutrition and Healthier Food Choices
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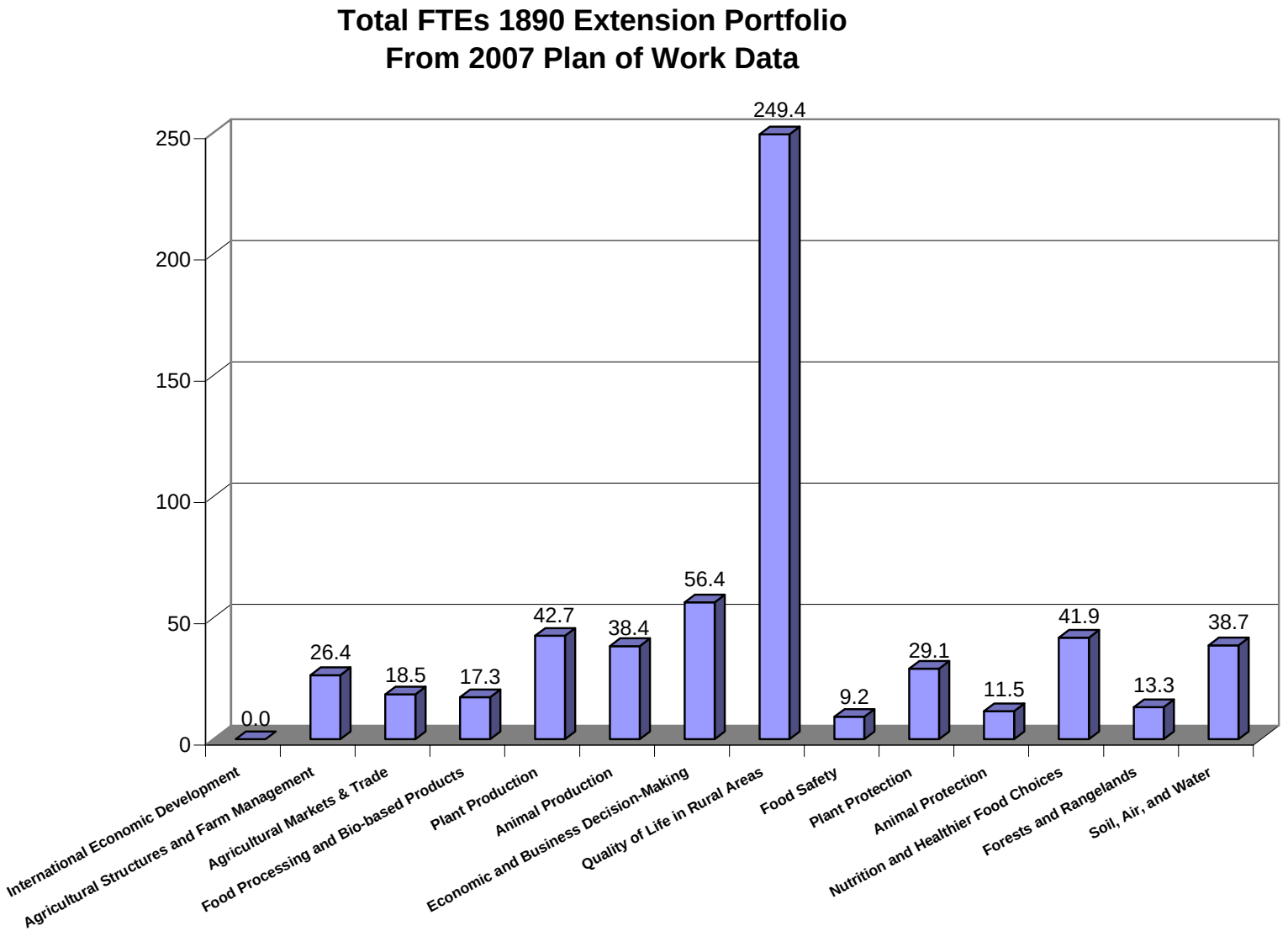
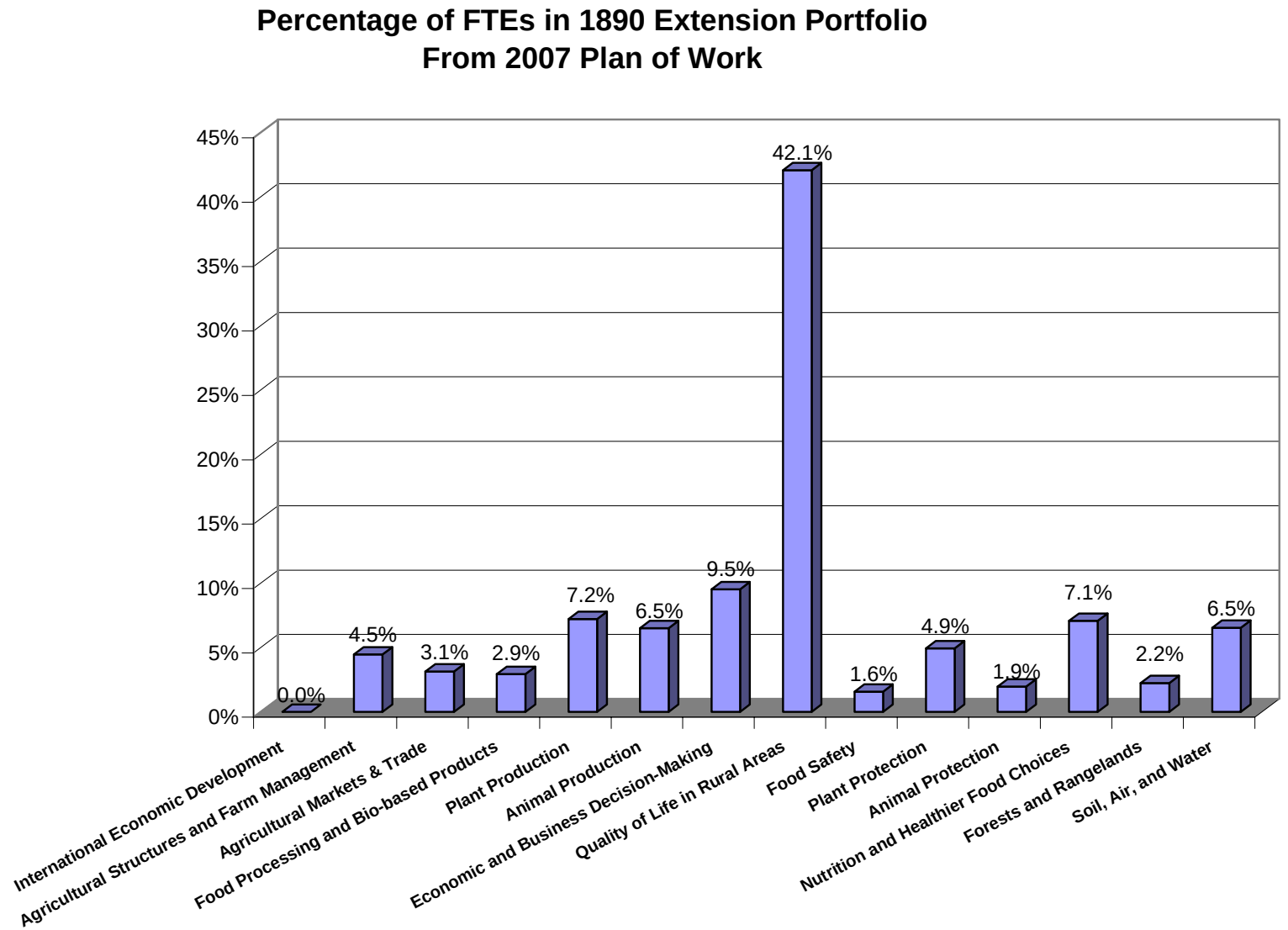
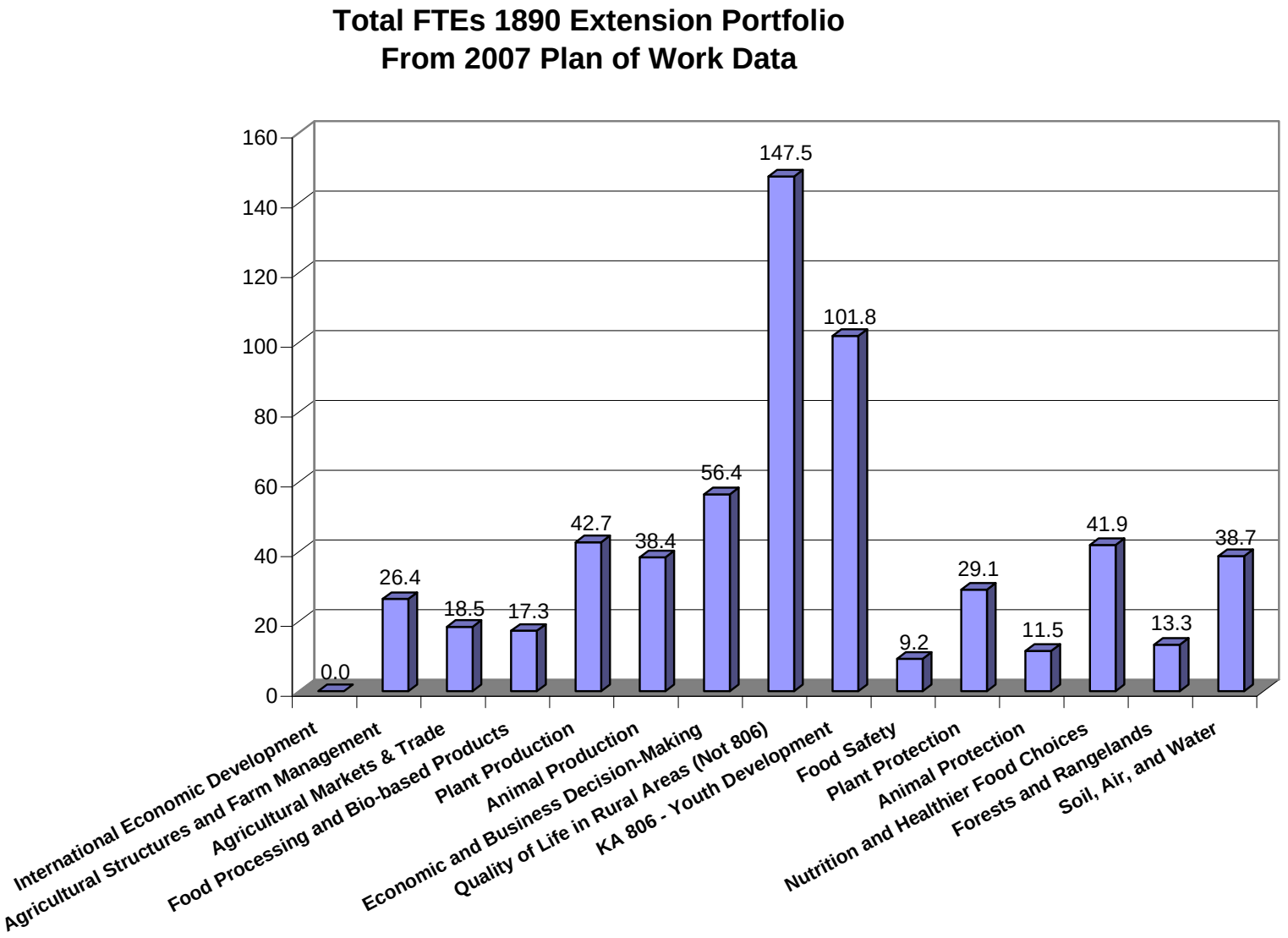
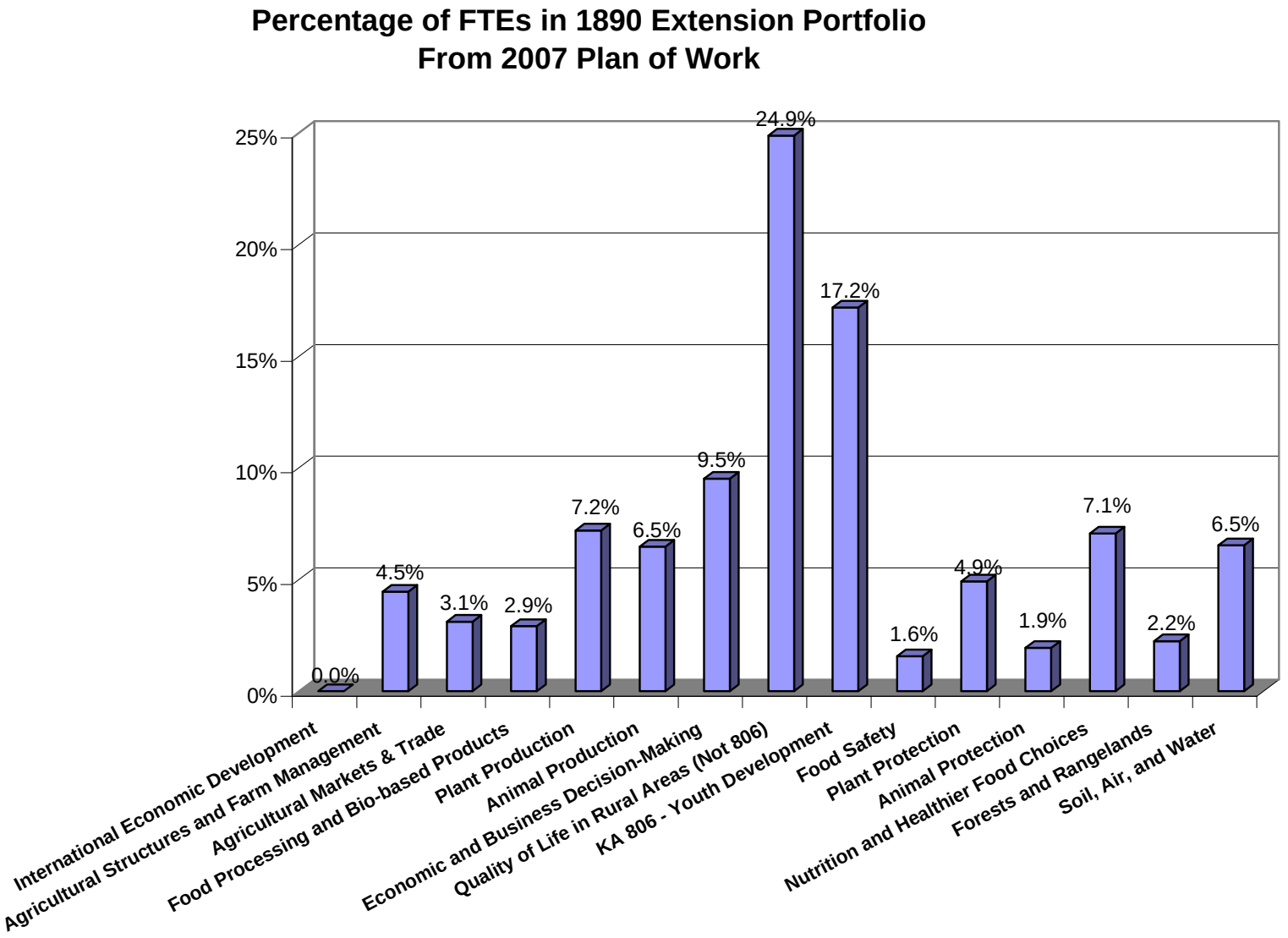
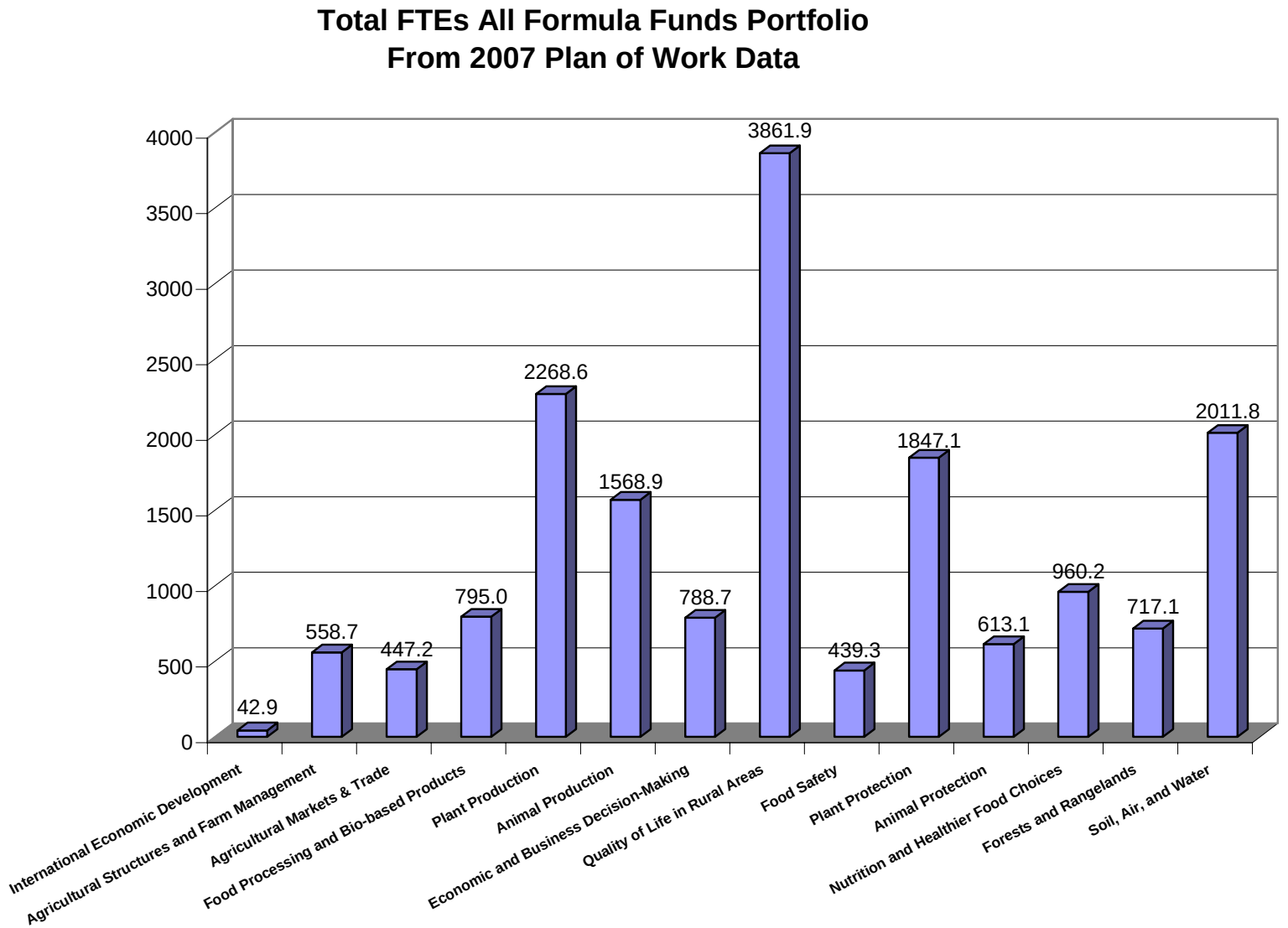
Soil, Air, and Water

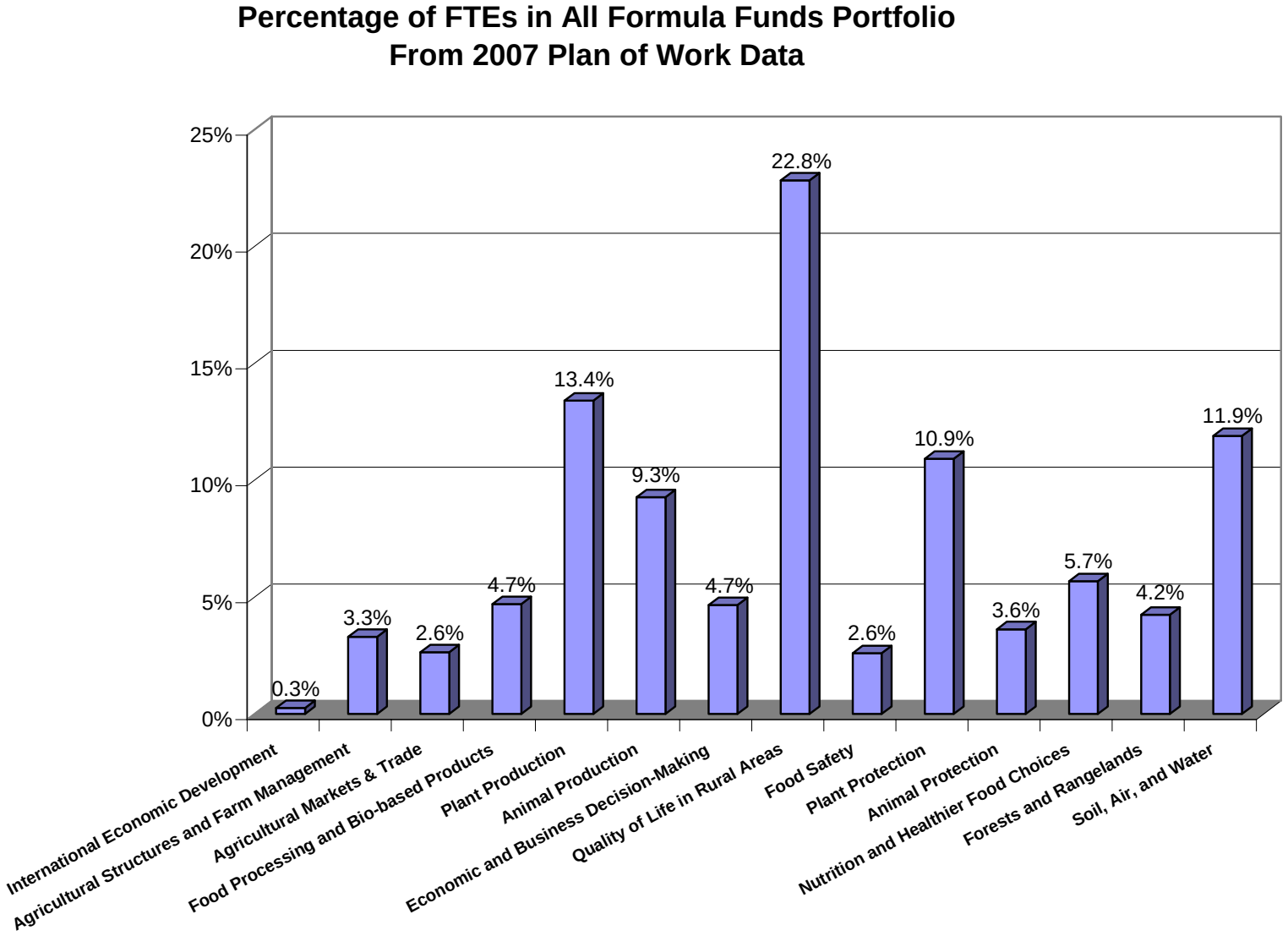

Total FTEs 1890 Extension Portfolio
From 2007 Plan of Work Data
250
200
150
100
50
0
0.0
26.4
18.5
17.3
42.7
38.4
56.4
249.4
9.2
29.1
11.5
41.9
13.3
38.7
International Economic Development
Agricultural Structures and Farm Management
Agricultural Markets & Trade
Food Processing and Bio-based Products
Plant Production
Animal Production
Economic and Business Decision-Making
Quality of Life in Rural Areas
Food Safety
Plant Protection
Animal Protection
Nutrition and Healthier Food Choices
Forests and Rangelands
Soil, Air, and Water


Percentage of FTEs in 1890 Extension Portfolio
From 2007 Plan of Work
45%
40%
35%
30%
25%
20%
15%
10%
5%
0%
0.0%
4.5%
3.1%
2.9%
7.2%
6.5%
9.5%
42.1%
1.6%
4.9%
1.9%
7.1%
2.2%
6.5%
International Economic Development
Agricultural Structures and Farm Management
Agricultural Markets & Trade
Food Processing and Bio-based Products
Plant Production
Animal Production
Economic and Business Decision-Making
Quality of Life in Rural Areas
Food Safety
Plant Protection
Animal Protection
Nutrition and Healthier Food Choices
Forests and Rangelands
Soil, Air, and Water


Total FTEs 1890 Extension Portfolio
From 2007 Plan of Work Data
160
140
120
100
80
60
40
20
0
0.0
26.4
18.5
17.3
42.7
38.4
56.4
147.5
101.8
9.2
29.1
11.5
41.9
13.3
38.7
International Economic Development
Agricultural Structures and Farm Management
Agricultural Markets & Trade
Food Processing and Bio-based Products
Plant Production
Animal Production
Economic and Business Decision-Making
Quality of Life in Rural Areas (Not 806)
KA 806 - Youth Development
Food Safety
Plant Protection
Animal Protection
Nutrition and Healthier Food Choices
Forests and Rangelands
Soil, Air, and Water


Percentage of FTEs in 1890 Extension Portfolio
From 2007 Plan of Work
25%
20%
15%
10%
5%
0%
0.0%
4.5%
3.1%
2.9%
7.2%
6.5%
9.5%
24.9%
17.2%
1.6%
4.9%
1.9%
7.1%
2.2%
6.5%
International Economic Development
Agricultural Structures and Farm Management
Agricultural Markets & Trade
Food Processing and Bio-based Products
Plant Production
Animal Production
Economic and Business Decision-Making
Quality of Life in Rural Areas (Not 806)
KA 806 - Youth Development
Food Safety
Plant Protection
Animal Protection
Nutrition and Healthier Food Choices
Forests and Rangelands
Soil, Air, and Water

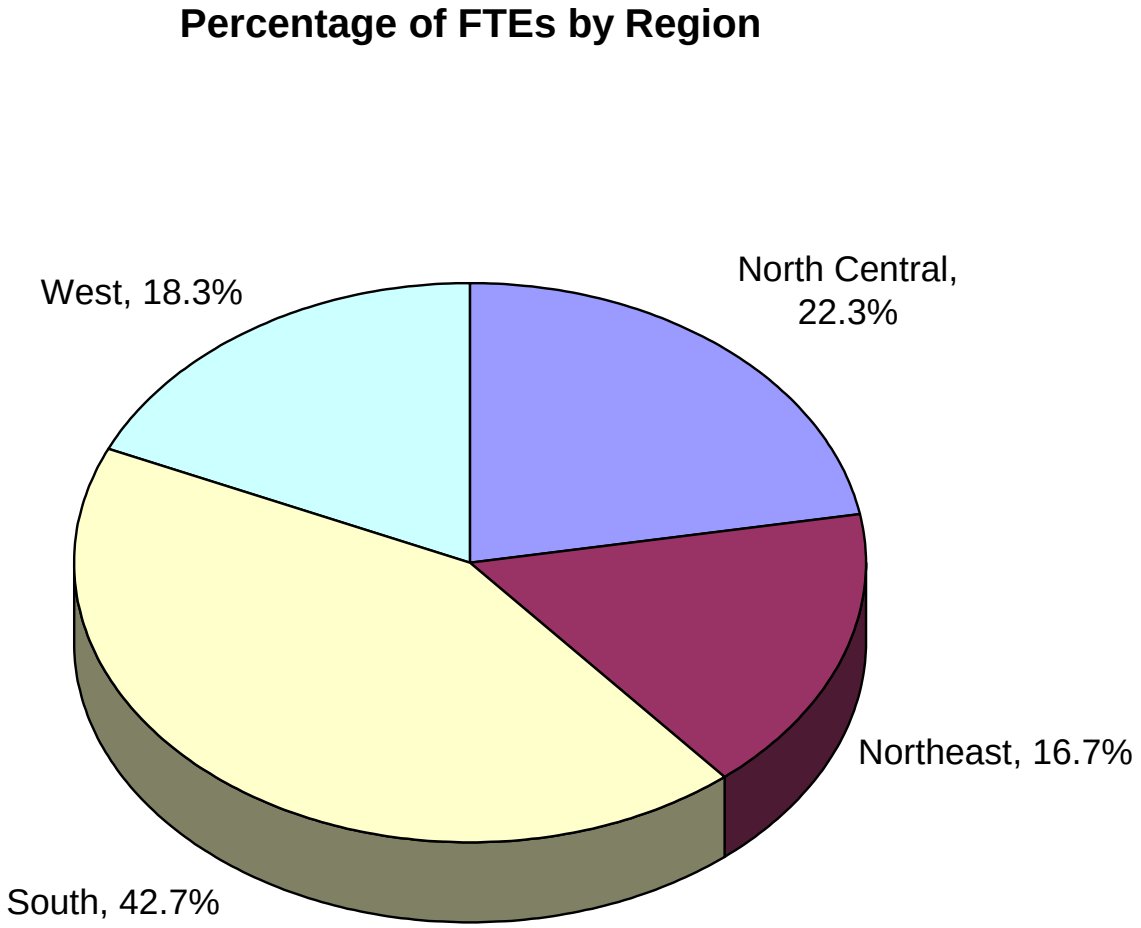

Total FTEs All Formula Funds Portfolio
From 2007 Plan of Work Data
4000
3500
3000
2500
2000
1500
1000
500
0
42.9
558.7
447.2
795.0
2268.6
1568.9
788.7
3861.9
439.3
1847.1
613.1
960.2
717.1
2011.8
International Economic Development
Agricultural Structures and Farm Management
Agricultural Markets & Trade
Food Processing and Bio-based Products
Plant Production
Animal Production
Economic and Business Decision-Making
Quality of Life in Rural Areas
Food Safety
Plant Protection
Animal Protection
Nutrition and Healthier Food Choices
Forests and Rangelands
Soil, Air, and Water

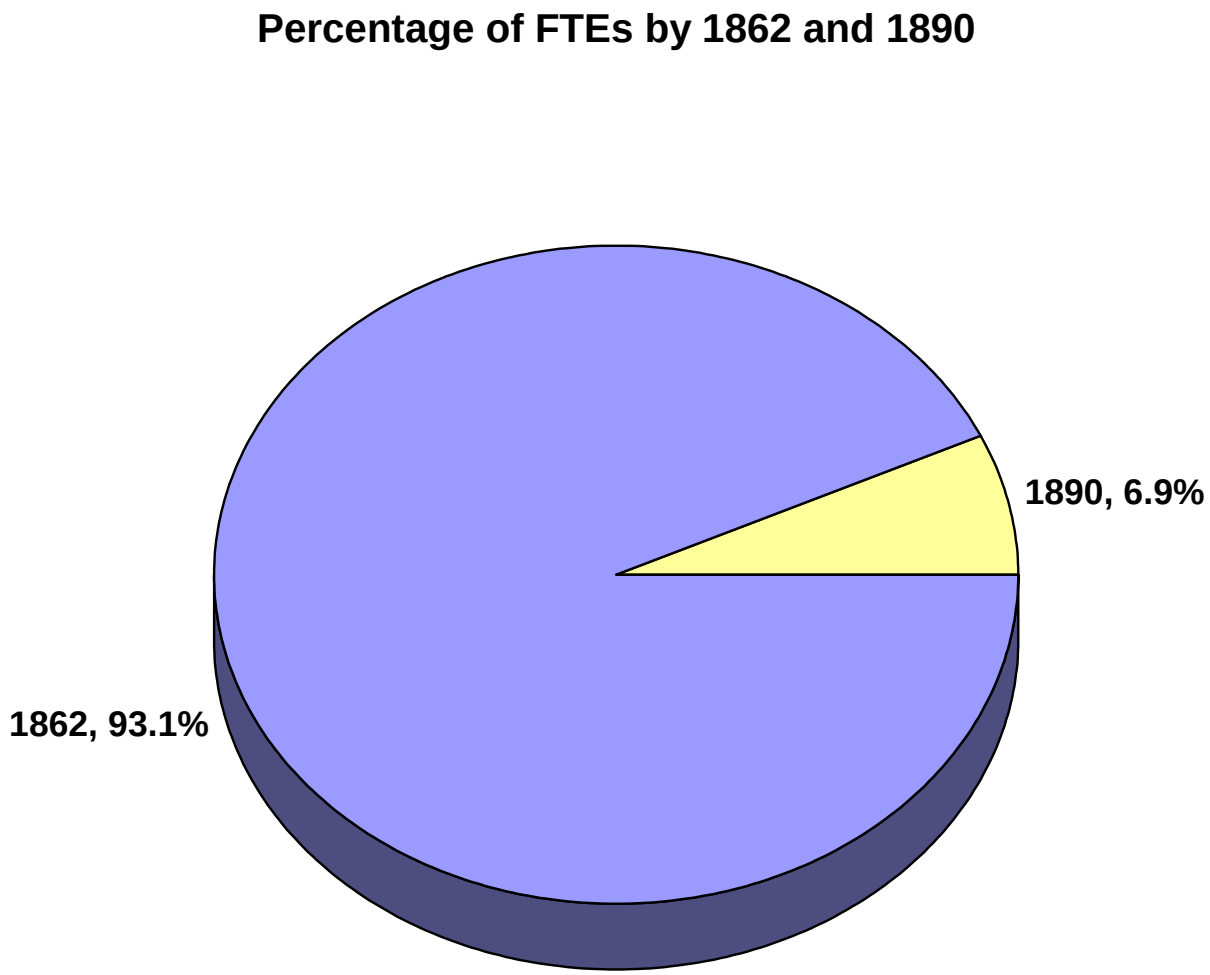

Percentage of FTEs in All Formula Funds Portfolio
From 2007 Plan of Work Data
25%
20%
15%
10%
5%
0%
0.3%
3.3%
2.6%
4.7%
13.4%
9.3%
4.7%
22.8%
2.6%
10.9%
3.6%
5.7%
4.2%
11.9%
International Economic Development
Agricultural Structures and Farm Management
Agricultural Markets & Trade
Food Processing and Bio-based Products
Plant Production
Animal Production
Economic and Business Decision-Making
Quality of Life in Rural Areas
Food Safety
Plant Protection
Animal Protection
Nutrition and Healthier Food Choices
Forests and Rangelands
Soil, Air, and Water

Percentage of FTEs within Regions to CSREES Portfolios

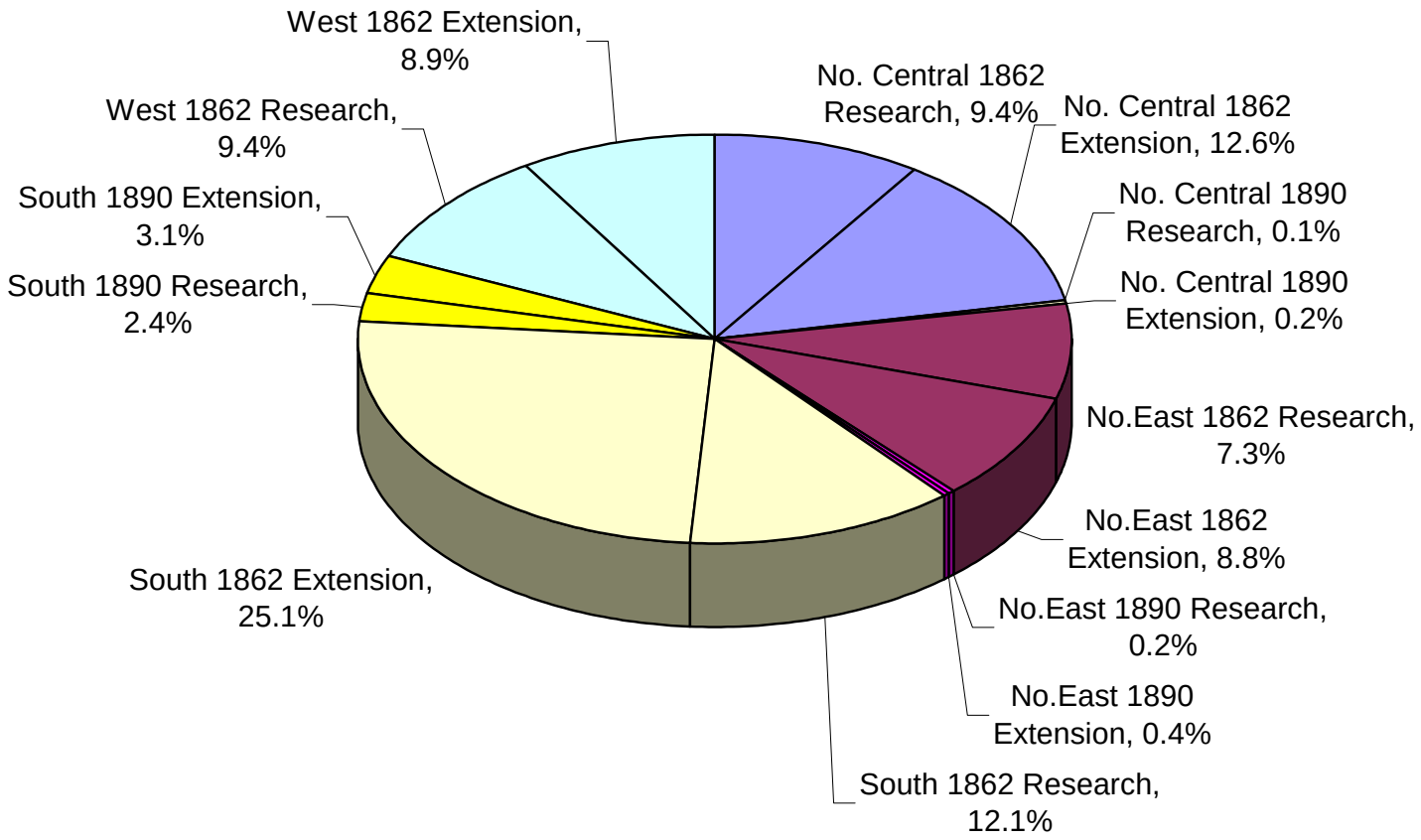
Portfolio	North Central	Northeast	South	West	Overall
International Economic Development	**0.41%**	0.18%	0.18%	0.31%	0.25%
Agricultural Structures and Farm Management	3.65%	**5.50%**	2.83%	1.90%	3.29%
Agricultural Markets & Trade	2.38%	**4.02%**	2.81%	1.29%	2.64%
Food Processing and Bio-based Products	5.30%	5.21%	4.53%	**3.99%**	4.72%
Plant Production	13.11%	**7.20%**	12.56%	**20.89%**	13.31%
Animal Production	11.09%	8.00%	10.06%	**6.15%**	9.23%
Economic and Business Decision-Making	5.49%	**7.54%**	4.38%	**2.24%**	4.77%
Quality of Life in Rural Areas	22.93%	21.26%	26.43%	**15.92%**	22.86%
Food Safety	**1.87%**	2.86%	2.94%	2.51%	2.61%
Plant Protection	8.45%	12.31%	9.80%	**14.96%**	10.86%
Animal Protection	4.21%	4.56%	3.45%	**2.34%**	3.60%
Nutrition and Healthier Food Choices	5.74%	4.95%	5.52%	**6.69%**	5.69%
Forests and Rangelands	4.30%	3.78%	3.54%	**6.32%**	4.26%
Soil, Air, and Water	11.07%	12.63%	10.97%	**14.48%**	11.91%
Totals	100.00%	100.00%	100.00%	100.00%	100.00%

Numbers in **Bold** are outside the standard deviation

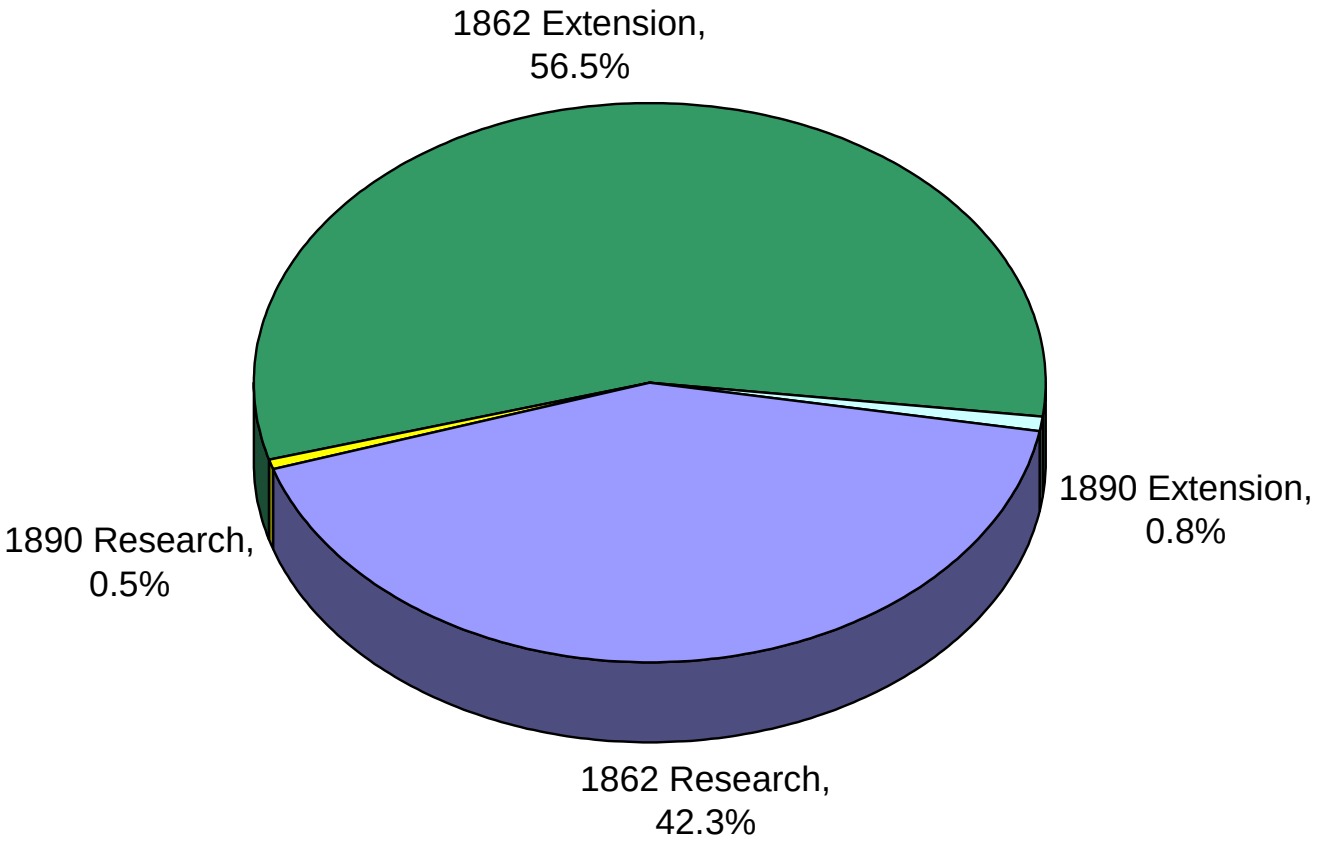

Percentage of FTEs by Region
West, 18.3%
North Central, 22.3%
Northeast, 16.7%
South, 42.7%

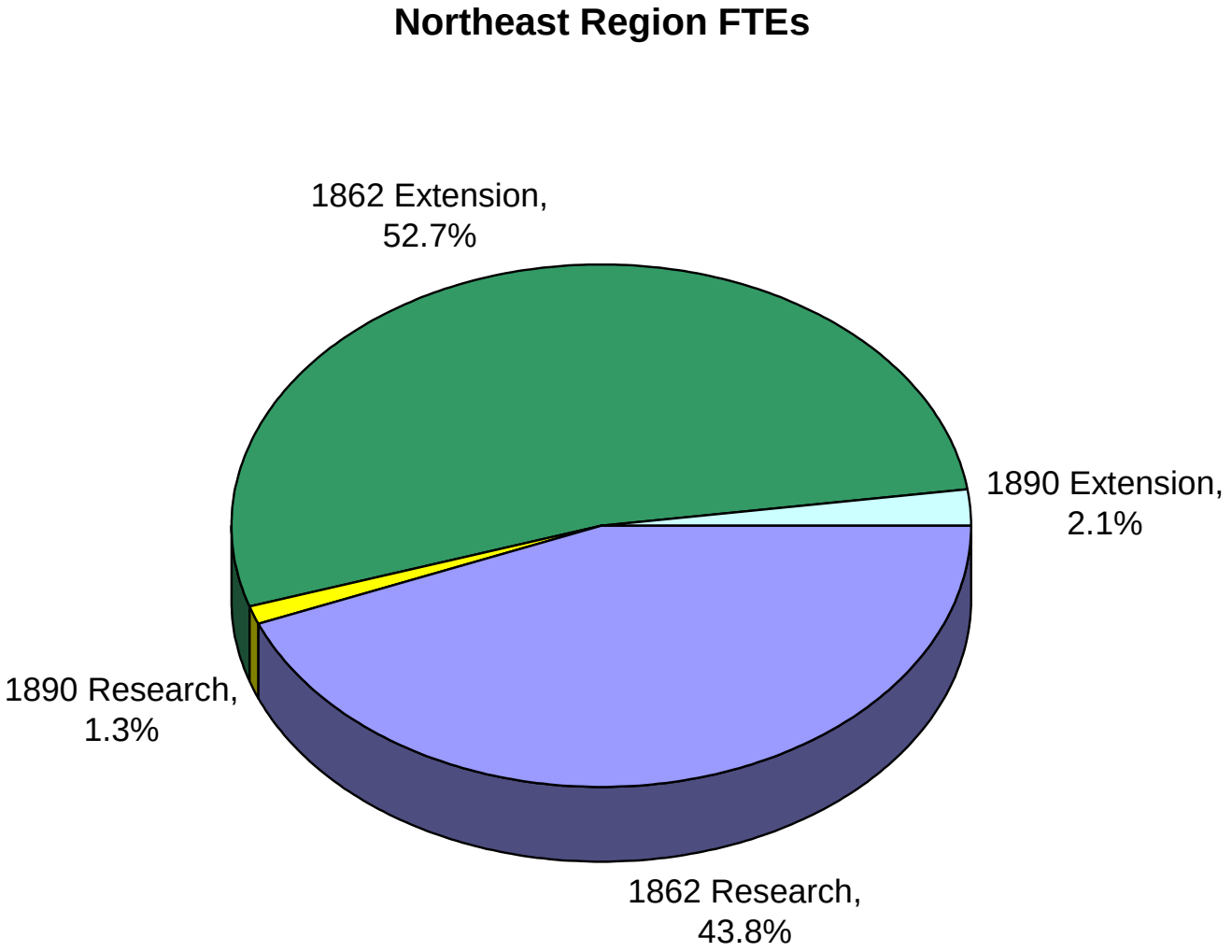

Percentage of FTEs by 1862 and 1890
1890, 6.9%
1862, 93.1%

FTEs by Region and Funding Line

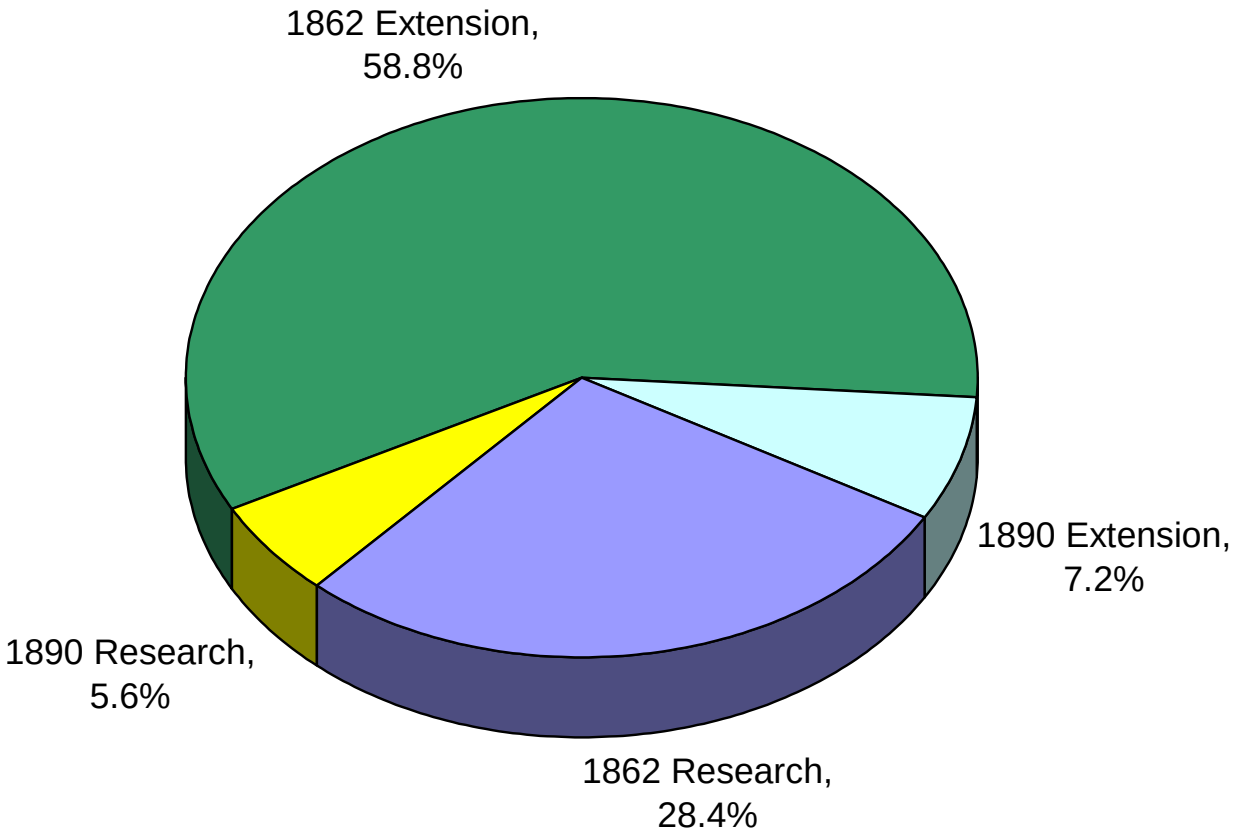


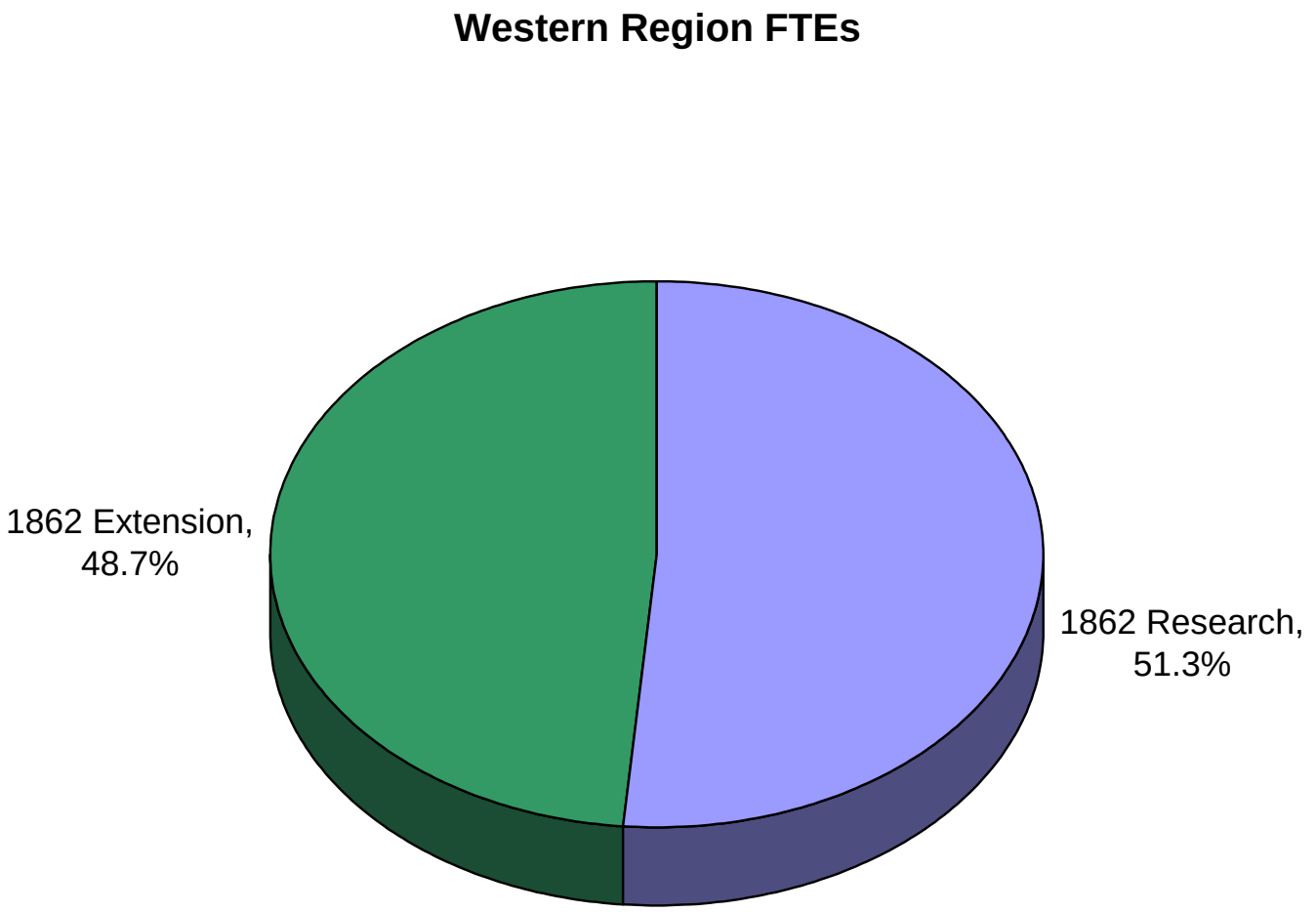
North Central Region FTEs

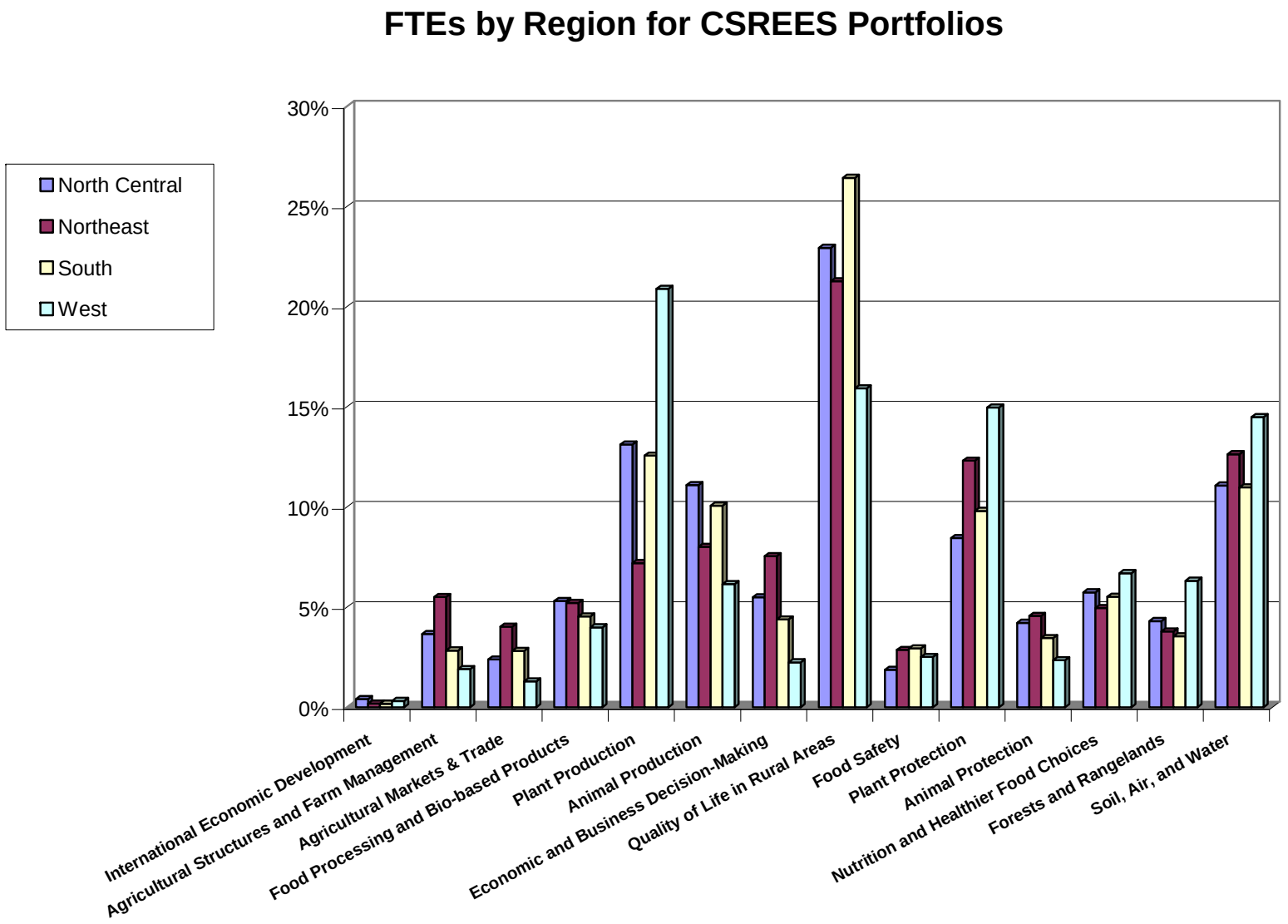


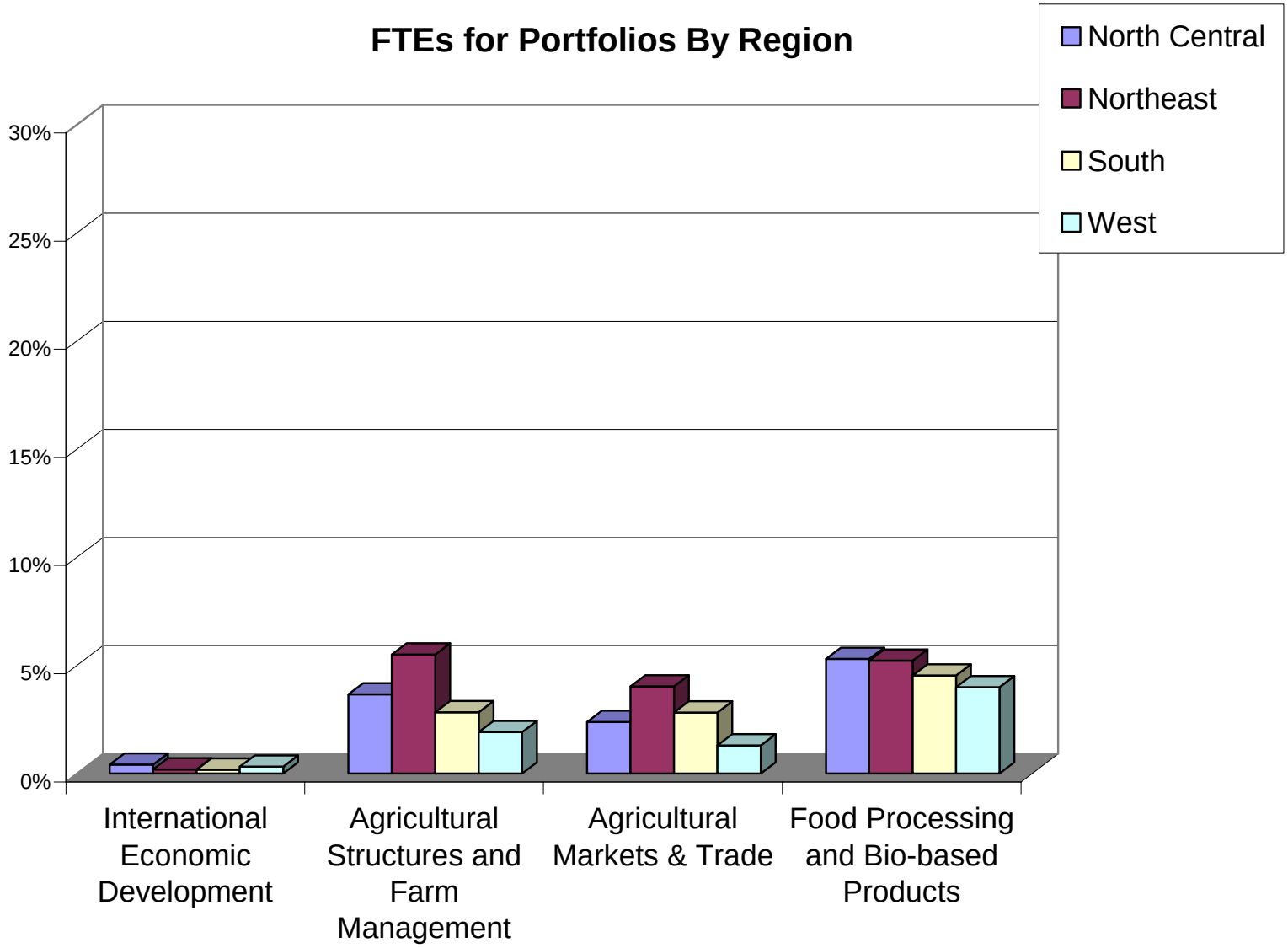

Northeast Region FTEs
1862 Extension, 52.7%
1890 Extension, 2.1%
1890 Research, 1.3%
1862 Research, 43.8%

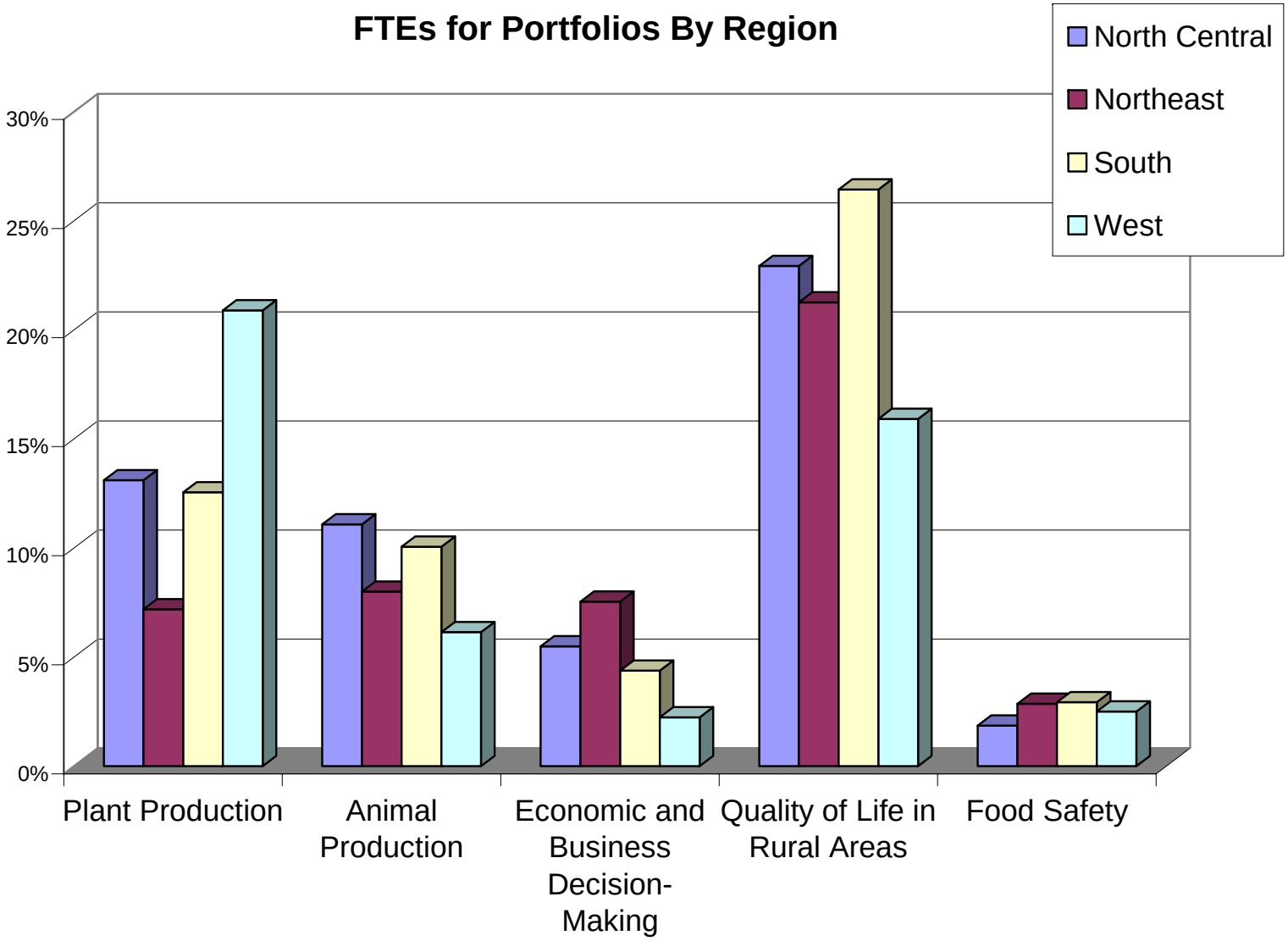
Southern Region FTEs

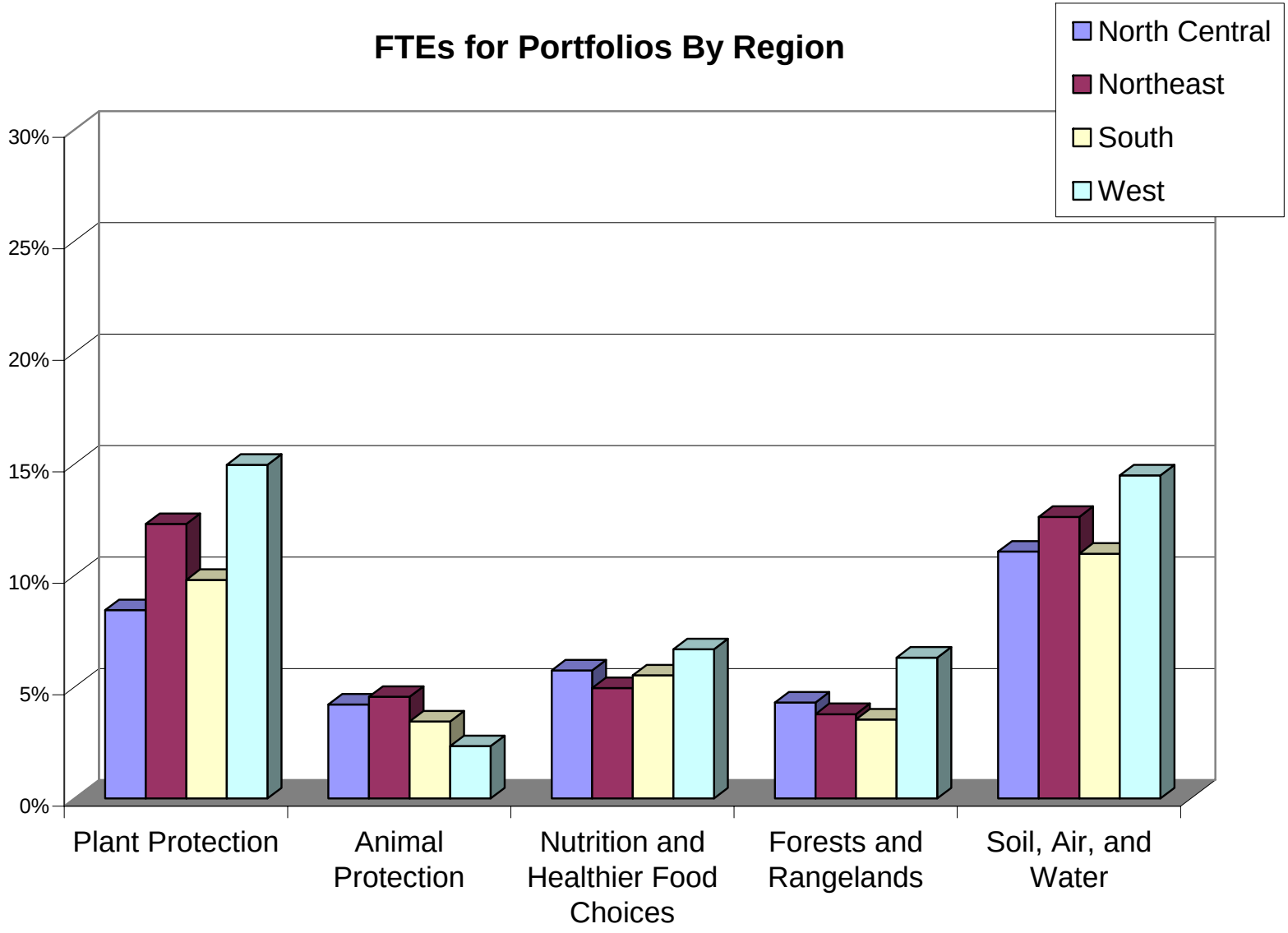



Western Region FTEs
1862 Extension, 48.7%
1862 Research, 51.3%


FTEs by Region for CSREES Portfolios
North Central
Northeast
South
West
30%
25%
20%
15%
10%
5%
0%
International Economic Development
Agricultural Structures and Farm Management
Agricultural Markets & Trade
Food Processing and Bio-based Products
Plant Production
Animal Production
Economic and Business Decision-Making
Quality of Life in Rural Areas
Food Safety
Plant Protection
Animal Protection
Nutrition and Healthier Food Choices
Forests and Rangelands
Soil, Air, and Water


FTEs for Portfolios By Region
North Central
Northeast
South
West
30%
25%
20%
15%
10%
5%
0%
International Economic Development
Agricultural Structures and Farm Management
Agricultural Markets & Trade
Food Processing and Bio-based Products


FTEs for Portfolios By Region
North Central
Northeast
South
West
30%
25%
20%
15%
10%
5%
0%
Plant Production
Animal Production
Economic and Business Decision-Making
Quality of Life in Rural Areas
Food Safety


FTEs for Portfolios By Region
North Central
Northeast
South
West
30%
25%
20%
15%
10%
5%
0%
Plant Protection
Animal Protection
Nutrition and Healthier Food Choices
Forests and Rangelands
Soil, Air, and Water

Appendix E – Extension Direct and Indirect Contact Methods from the 2007-2011 Plan of Work

Extension Direct Contact Methods	Number	Percentage
Education Classes	639	63%
Workshops	697	68%
Group Discussion	539	53%
One on One Intervention	554	54%
Demonstrations	514	50%
Other	473	46%

Extension Indirect Contact Methods	Number	Percentage
Public Service Announcements	334	33%
Billboards	31	3%
Newsletters	654	64%
TV Media Programs	297	29%
Web Sites	640	63%
Other	515	51%

Number Of State Defined Programs = 1018

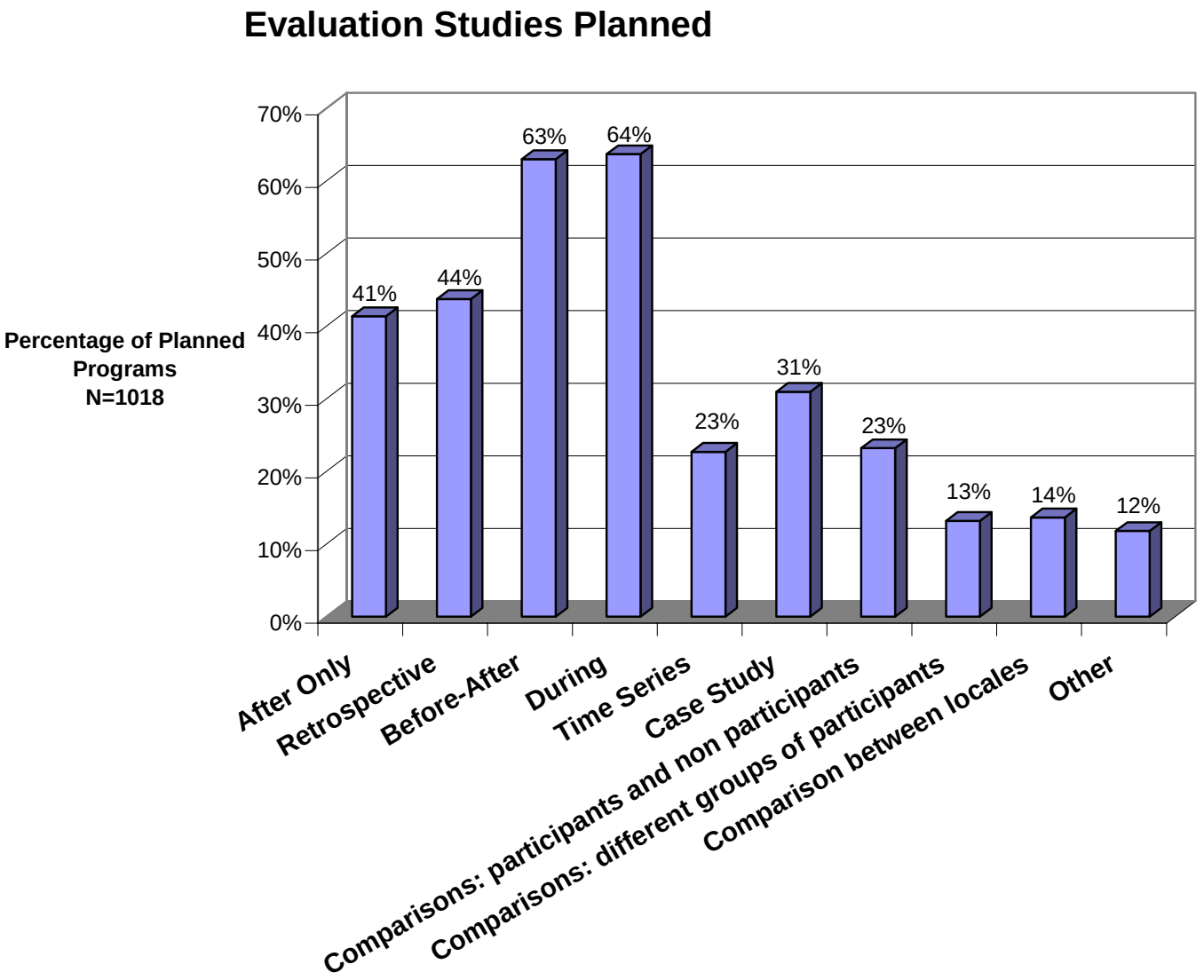
Extension Direct Contacts (nearest thousand)

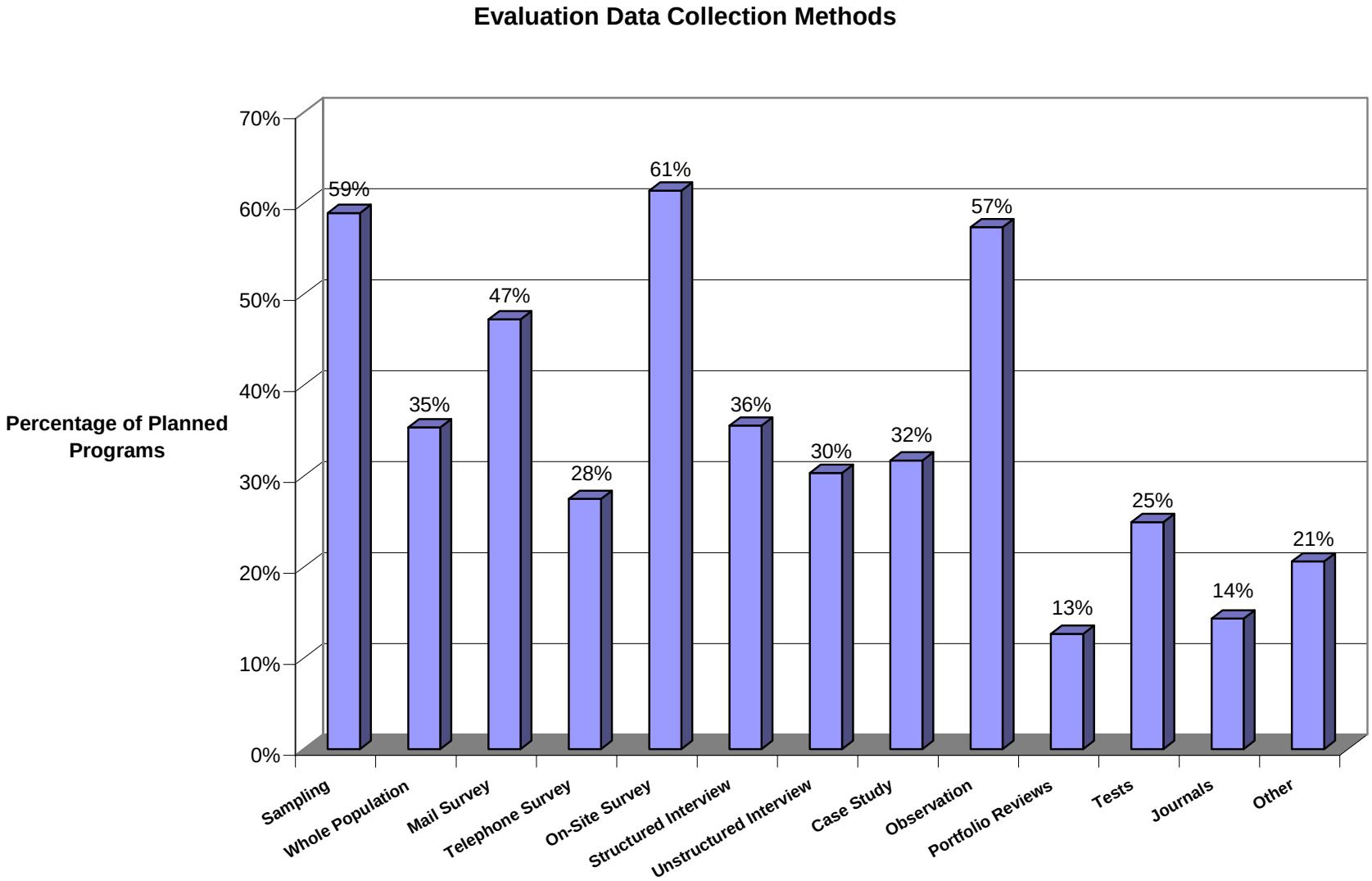
Year	Adult	Youth
2007	17,187,000	9,132,000
2008	17,358,000	9,274,000
2009	17,594,000	9,449,000
2010	17,373,000	9,616,000
2011	17,970,000	9,792,000

Appendix F – Evaluation Studies and Data Collection Methodologies

Evaluation Studies	Number	Percent
After Only	421	41%
Retrospective	445	44%
Before-After	641	63%
During	648	64%
Time Series	231	23%
Case Study	315	31%
Comparisons between program participants and non participants	236	23%
Comparisons between different groups of participants	134	13%
Comparison between locales	139	14%
Other	120	12%

Data Collection Methods	Number	Percent
Sampling	600	59%
Whole Population	360	35%
Mail Survey	481	47%
Telephone Survey	280	28%
On-Site Survey	625	61%
Structured Interview	362	36%
Unstructured Interview	309	30%
Case Study	323	32%
Observation	584	57%
Portfolio Reviews	129	13%
Tests	254	25%
Journals	146	14%
Other	210	21%


Evaluation Studies Planned
Percentage of Planned Programs N=1018
70%
60%
50%
40%
30%
20%
10%
0%
41%
44%
63%
64%
23%
31%
23%
13%
14%
12%
After Only
Retrospective
Before-After
During
Time Series
Case Study
Comparisons: participants and non participants
Comparisons: different groups of participants
Comparison between locales
Other


Evaluation Data Collection Methods
Percentage of Planned Programs
70%
60%
50%
40%
30%
20%
10%
0%
59%
35%
47%
28%
61%
36%
30%
32%
57%
13%
25%
14%
21%
Sampling
Whole Population
Mail Survey
Telephone Survey
On-Site Survey
Structured Interview
Unstructured Interview
Case Study
Observation
Portfolio Reviews
Tests
Journals
Other