APPENDIX J

Graduate Education

J.1 Summary of Graduate Student Exit Survey
J.2 600-level Courses and Student Enrollment
J.3 Mapping Guide for the Ph.D. Degree-Agronomy
J.4 Mapping Guide for Agronomy – MS Degree

Appendix J.1

Exit Interview Questionnaire for Students Graduating with Degrees
Department of Agronomy, Purdue University
Summary - June 2001- October 2008

SA -Strongly agree
A - Agree
U - Undecided
D - Disagree
SD - Strongly disagree
NA - Not applicable

This questionnaire represents the responses from 73 graduate students.

	Responses as # of Students					
	SA	**A**	**U**	**D**	**SD**	**NA**
A. My major professor was available to discuss my research results on a regular basis.	44	24	1	2	2	
B. My major professor was timely in reviewing my thesis and other written material.	35	27	7	1	2	1
C. My major professor was available for informal discussions.	45	26	1			1
D. My major professor provided career counseling.	32	15	14	5	2	5
E. My advisory committee members made time available to discuss my research results.	28	31	8	3	1	2
F. My advisory committee members were available for informal discussions.	28	33	5	4		3
G. My advisory committee members provided career counseling	18	18	17	5		15
H. Other faculty in the department were available for discussion and assistance.	27	35	7			4
I. Other faculty in the university were available for discussion and assistance.	21	31	12	1		8
J. The Agronomy Department values graduate students.	27	35	10		1	
K. The Agronomy Department provided resources to support my graduate education.	31	36	6			
L. The Agronomy support staff was a valuable resource for successful completion of my degree:						
Computer support	37	21	8	2		5
Graduate program office	34	27	6	1		5
Main office	48	20	2			3
Business office	39	26	4			4
M. I interacted regularly with other graduate students in my lab.	44	25	1	3		
N. I interacted regularly with other graduate students in the dept.	27	35	7	4		
O. I interacted regularly with other graduate students at the university.	14	29	13	14	2	1
P. I am not an interactive individual.	2	12	11	19	23	6
Q. I feel it takes too long to finish a graduate degree in the Agronomy Dept.	2	10	12	28	19	2
R. I value the education I received from the Agronomy Department.	50	22	1			
S. I value the education I received from Purdue University.	50	20	2			1
T. The education I received in graduate school at Purdue has made me better at:						
Understanding concepts and principles	37	27	5	1		3
Problem-solving skills	32	33	3	1		4
Leadership skills	20	29	14	4		6
Computer skills	25	36	5	4		3
Working cooperatively with others	29	29	7	2		6
Written communication skills	37	29	4	1		2
Oral communication skills	39	26	4			4
Teaching skills	22	17	14	3		17
Job search skills	8	20	20	7	3	15
Time organization	22	31	10	5		5

Appendix J.2

Current Courses Listed	Course Title	Number of Students Enrolled by Semester and Year																	
		2007			2006			2005			2004			2003			2002		
		Sum	Fall	Spr	Sum	Fall	Spr	Sum	Fall	Spr	Sum	Fall	Spr	Sum	Fall	Spr	Sum	Fall	Spr
AGRY 600	Genomics					16													
AGRY 605	Advanced Plant Breeding					5						7						1	
AGRY 611	Quantitative Genetics																		
AGRY 615	Statistical Genetics																		
AGRY 625	Physiology & Biochemistry of Crop Improvement								2						2				
AGRY 635	Micrometeorology						1			1			1						
AGRY 640	Metabolic Plant Physiology																		
AGRY 649	Molecular Microbial Ecol.		11			7			8			6			4				
AGRY 650	Clay Mineralogy			3						4						11			
AGRY 655	Soil Genesis Classif.			2						9									
AGRY 660	Chemistry & Fertility Soils																		
AGRY 670	Physical Chem. of Soils																		
AGRY 675	Advanced Soil Physics																		3
AGRY 690	Seminar Atmos. Sci																		
AGRY 696	Agronomy Grad Seminar			7			9			13			5		12				3

Appendix J.3

MAPPING GUIDE FOR the Ph.D. Degree- Agronomy

	Graduate Student Learning Outcome 1	Graduate Student Learning Outcome 2	Graduate Student Learning Outcome 3	Graduate Student Learning Outcome 4	Graduate Student Learning Outcome 5
Graduate Students of the Purdue University PhD programs will be able to demonstrate the ability:	To identify and conduct original research, scholarship and creative endeavors	To effectively communicate their field of study	To think critically, creatively and solve problems in their field of study	To conduct research in an ethical and responsible manner	To demonstrate attributes of professional development consistent with expectations within their field of study
Complete Seminar for Two Credit Hours (Form AGRY_GC-2a)	NA	Present results of research via oral or poster presentation	Critically analyze ideas and data presented and discussed by others	NA	Satisfy attendance goals for seminar each semester
Complete ENTM 612 – Responsible Conduct of Research (Form AGRY_GC-2a)	NA	NA	NA	Attend and receive a passing grade in ENTM 612	Attend and receive a passing grade in ENTM 612
Complete Coursework Requirements (Form AGRY_GC-2a)	Attend and receive a passing grade in all coursework. GPA ≥ 3.0	Attend and receive a passing grade in all coursework. GPA ≥ 3.0	Attend and receive a passing grade in all coursework GPA ≥ 3.0.		Attend and receive a passing grade in all coursework. GPA ≥ 3.0
Complete PhD Research Credits (699) (Form AGRY_GC-2a)	Receive a satisfactory grade on credits associated with student performance in research	Receive a satisfactory grade on credits associated with student performance in research	Receive a satisfactory grade on credits associated with student performance in research	Receive a satisfactory grade on credits associated with student performance in research	Receive a satisfactory grade on credits associated with student performance in research
Prepare a Research Proposal (Form AGRY_GC-3)	Successfully define and justify a set of research objectives in a formal research proposal for the student's degree program	Successfully write a research proposal and defend that proposal in a meeting of their graduate advisory committee	Successfully define a set of research methods and analyses that will achieve the objectives set forth in the research proposal for the student's degree program	Successfully provide information in a research proposal outlining how the research conforms to the standards for the responsible conduct of research	Successfully write a research proposal and defend that proposal in a meeting of their graduate advisory committee
Complete Written Preliminary Exam (Form AGRY_GC-4)	NA	Successfully complete a formal written preliminary exam for Ph.D. candidacy	Successfully complete a formal written preliminary exam for Ph.D. candidacy	NA	Successfully complete a formal written preliminary exam for Ph.D. candidacy
Complete Oral Preliminary Exam (Form AGRY_GC-4)	NA	Successfully complete a formal oral preliminary exam for Ph.D. candidacy	Successfully complete a formal oral preliminary exam for Ph.D. candidacy	NA	Successfully complete a formal oral preliminary exam for Ph.D. candidacy
Hold Annual Meetings of Graduate Advisory Committee (Forms AGRY_GC-2a	Demonstrate acceptable progress towards research and Plan-of-Study requirements to graduate advisory committee	Demonstrate acceptable progress towards research and Plan-of-Study requirements to graduate advisory committee	Demonstrate acceptable progress towards research and Plan-of-Study requirements to graduate advisory committee	NA	Demonstrate acceptable progress towards research and Plan-of-Study requirements to graduate advisory committee

and AGRY_GC-5)					
Demonstrate the Ability to Prepare Manuscripts Derived from Their Dissertation (Form AGRY_GC-6)	Successfully prepare manuscripts for publication in the peer-reviewed literature	Successfully prepare manuscripts for publication in the peer-reviewed literature	Successfully prepare manuscripts for publication in the peer-reviewed literature	Successfully prepare manuscripts for publication in the peer-reviewed literature	Successfully prepare manuscripts for publication in the peer-reviewed literature
Present Results of Research, Teaching or Outreach Efforts at Appropriate Venues (Form AGRY_GC-6	Successfully present a research, teaching or outreach presentation or poster to a professional audience	Successfully present a research, teaching or outreach presentation or poster to a professional audience	Successfully present a research, teaching or outreach presentation or poster to a professional audience	Successfully present a research, teaching or outreach presentation or poster to a professional audience	Successfully present a research, teaching or outreach presentation or poster to a professional audience
Prepare Dissertation (Form AGRY_GC-7)	Successfully prepare a dissertation for submission to the students graduate advisory committee for review	Successfully prepare a dissertation for submission to the students graduate advisory committee for review	Successfully prepare a dissertation for submission to the students graduate advisory committee for review	Successfully prepare a dissertation for submission to the students graduate advisory committee for review	Successfully prepare a dissertation for submission to the students graduate advisory committee for review
Defend Dissertation (Form AGRY_GC-7)	Successfully defend a dissertation in a meeting of the students graduate advisory committee	Successfully defend a dissertation in a meeting of the students graduate advisory committee	Successfully defend a dissertation in a meeting of the students graduate advisory committee	Successfully defend a dissertation in a meeting of the students graduate advisory committee	Successfully defend a dissertation in a meeting of the students graduate advisory committee

MAPPING GUIDE FOR Agronomy – MS Degree

	Graduate Student Learning Outcome 1	Graduate Student Learning Outcome 2	Graduate Student Learning Outcome 3	Graduate Student Learning Outcome 4	Graduate Student Learning Outcome 5
Graduate Students of the Purdue University PhD programs will be able to demonstrate the ability:	To identify and conduct original research, scholarship and creative endeavors	To effectively communicate their field of study	To think critically, creatively and solve problems in their field of study	To conduct research in an ethical and responsible manner	To demonstrate attributes of professional development consistent with expectations within their field of study
Complete AGRY Seminar for One Credit Hour (Form GC-2b)	NA	Present results of research via oral or poster presentation in seminar class	NA	NA	Satisfy attendance goals for relevant seminars each semester
Complete ENTM 612 – Responsible Conduct of Research (Form GC-2b)	NA	NA	NA	Attend and receive a passing grade in ENTM 612	Attend and receive a passing grade in ENTM 612
Complete a Total of 30 Course Credit Hours *	NA	Attend and receive a passing grade in all courses taken	Attend and receive a passing grade in all courses taken	NA	Attend and receive a passing grade in all courses taken
Complete MS Research Credits (698) ** (Form GC-2a)	Receive a grade of satisfactory on credits associated with the performance of the students research	Receive a grade of satisfactory on credits associated with the performance of the students research	Receive a grade of satisfactory on credits associated with the performance of the students research	Receive a grade of satisfactory on credits associated with the performance of the students research	Receive a grade of satisfactory on credits associated with the performance of the students research
Prepare Research Proposal (Form GC-3b)**	Successfully define and justify a set of research objectives in a formal research proposal for the students degree program	Successfully write a research proposal and defend that proposal in a meeting of their graduate advisory committee	Successfully define a set of research methods and analyses that will achieve the objectives set forth in the research proposal for the students degree program	Successfully provide information in a research proposal outlining how research conforms to the standards for the responsible conduct of research	Successfully write a research proposal and defend that proposal in a meeting of their graduate advisory committee
Hold Annual Meetings of Graduate Advisory Committee (Forms GC-2b & 5b)	Demonstrate acceptable progress towards research and Plan-of-Study requirements to graduate advisory committee	Demonstrate acceptable progress towards research and Plan-of-Study requirements to graduate advisory committee	Demonstrate acceptable progress towards research and Plan-of-Study requirements to graduate advisory committee	NA	Demonstrate acceptable progress towards research and Plan-of-Study requirements to graduate advisory committee
Publish Results of Research, Teaching or Outreach Efforts in Appropriate Outlets (Form GC-6b)**	Successfully publish a research, teaching or outreach article in the peer-reviewed literature	Successfully publish a research, teaching or outreach article in the peer-reviewed literature	Successfully publish a research, teaching or outreach article in the peer-reviewed literature	Successfully publish a research, teaching or outreach article in the peer-reviewed literature	Successfully publish a research, teaching or outreach article in the peer-reviewed literature

Present Results of Research, Teaching or Outreach Efforts at Appropriate Venues (Form GC-6b)	Successfully present a research, teaching or outreach presentation or poster to a professional audience	Successfully present a research, teaching or outreach presentation or poster to a professional audience	Successfully present a research, teaching or outreach presentation or poster to a professional audience	Successfully present a research, teaching or outreach presentation or poster to a professional audience	Successfully present a research, teaching or outreach presentation or poster to a professional audience
Exhibit Evidence of Leadership Potential (Form GC-6b)	Serve as a reviewer or editor for professional publications or as an external reviewer for funding agencies	Present research, teaching or outreach materials as an invited speaker or in an invited scientific article	File a patent for activities associated with research activities performed	Present or publish materials associated with the responsible conduct of research	Serve as an officer or committee member in a professional society or other organizations related to your field of study
Serve as a Teaching Assistant or Instructor for a Course (Optional) (Form GC-6b & 8b)	NA	Successfully prepare and deliver lecture or laboratory material to undergraduate or graduate students	NA	Successfully prepare and deliver lecture or laboratory material to undergraduate or graduate students	Successfully prepare and deliver lecture or laboratory material to undergraduate or graduate students
Attend Professional Workshops (Optional) (Form GC-6b)	Attend a workshop associated with the development and conduct of research	Attend a workshop associated with effective oral or written communication in the classroom or to professional audiences	Attend a workshop associated with the development of critical thinking and/or problem solving skills	Attend a workshop associated with one or more aspects of the responsible conduct of research	Attend a workshop associated with one or more aspects of professional development
Prepare Thesis (Form GC-7b)**	Successfully prepare a thesis for submission to the students graduate advisory committee for review	Successfully prepare a thesis for submission to the students graduate advisory committee for review	Successfully prepare a thesis for submission to the students graduate advisory committee for review	Successfully prepare a thesis for submission to the students graduate advisory committee for review	Successfully prepare a thesis for submission to the students graduate advisory committee for review
Defend Thesis* (Form GC-7b)**	Successfully defend a thesis in a meeting of the students graduate advisory committee	Successfully defend a thesis in a meeting of the students graduate advisory committee	Successfully defend a thesis in a meeting of the students graduate advisory committee	Successfully defend a thesis in a meeting of the students graduate advisory committee	Successfully defend a thesis in a meeting of the students graduate advisory committee

* Required only of students pursuing a non-thesis MS degree

** Not required of students pursuing a non-thesis MS degree

*** For non-thesis MS students, requires only a public presentation and formal approval of Graduate Advisory Committee that coursework and any tasks assigned by the committee have been completed satisfactorily