



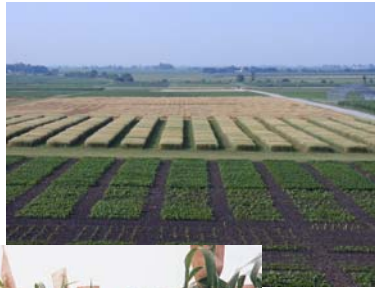
University of Illinois Plant Breeding Summary

Department of Crop Sciences and
Department of Natural Resources and Environmental Sciences



Part I. Breeding efforts by crop

Crop Group	PYs	Releases in the past 5 years	
		Germplasm	Cultivars
Dent Corn	2.98	2	-
Sweet Corn	0.90	-	-
Soybean	1.02	2	1
Wheat	0.40	-	7
Oat	0.20	2	3
Broom Corn	0.05	-	1
Apple	0.60	na	1
Impatiens, rose, & snapdragon	0.38	na	na
Broccoli	0.20	na	na
Miscanthus	0.15	na	na
Tomatoes	0.07	na	na
Poinsettia	0.02	na	na
Total	6.97		



Part II. Breeding efforts by activity

Activity	PYs	%
(a) Plant Breeding Research	2.36	29.7
(b) Germplasm Enhancement	1.47	18.5
(c) Cultivar Development	0.97	12.2
(d) Biotechnology Research and Development	2.17*	27.3
(e) Plant Breeding Education	0.97	12.3
Total	7.94	100

Part III. Recent graduates, 2000 – 2006, and current graduate student enrollment

	M.S.		Ph.D.		TOTAL
	Domestic	Int'l	Domestic	Int'l	
2000	2			2	4
2001	3		2	3	8
2002	6		3	2	11
2003	3		1		4
2004	5	3	1	1	10
2005	5	2	2	1	10
2006	2	3	3	1	9
TOTAL	26	8	12	10	56
Current Students	8	4	6	9	27

Part IV. Job placement of recent graduates

M.S. Domestic

Research Specialist, Univ. of Illinois
3 Research Scientists, Monsanto
4 Research Specialists, Pioneer HiBred Int'l
Agronomist, Syngenta
Syngenta, Wisconsin
2 BASF
Ph. D. student, Univ. of Illinois
2 PhD students, Cornell University
Hort. Curriculum Coord.,
Chattahoochee Comm. College
Instructor, Parkland Comm. College
High school teacher, OH
Production Foreman, Phipps Conservatory,
Pittsburgh

M.S. Domestic cont.

Asst. Grower, U. of Illinois Plant Care Facility
Patent Attorney, Chicago Illinois
Biotech firm in London, UK
Nunhems, USA
Unknown, not in seed industry

M.S. Int'l

3 Ph.D. students, Univ. of Illinois
Assistant Breeder, Syngenta
Research Scientist, Pioneer HiBred Int'l
Research Scientist, Fred Hutchison Res. Center
Biotech firm in Japan
Ecuador food processor

Ph.D. Domestic

Asst. Professor, Cal. Poly. - San Luis Obispo
Asst. Professor, Reynold College, NC
Univ. of Illinois Horticulture Extension
Plant Breeder, Syngenta
Plant Breeder, Monsanto
Plant Breeder, AgReliant,
Terral Seeds
Kraft Foods
2 Post Docs., USDA

Ph.D. Int'l

Plant breeder, Univ. of Gottingen, Germany
Plant breeder, EMBRAPA, Brazil
Research Scientist, Mayheco, India
Seed company, India
Post Doc., Univ. of Alberta
Post Doc., Univ. of Chicago
Post Doc., Univ. of California, San Diego
Post Doc., Univ. of Illinois
Post Doc., Michigan State Univ.
Private business

Part V. Plant breeding course offerings

CPSC 352 Plant and Animal Genetics	Credit: 4 hours
CPSC 452 Genetics of Higher Organisms	Credit: 3 hours
CPSC 453 Principles of Plant Breeding	Credit: 4 hours
CPSC 454 Plant Breeding Methods	Credit: 2 hours
HORT 447 Horticultural Plant Breeding	Credit: 3 hours
HORT 482 Plant Tissue Culture	Credit: 4 hours
CPSC 558 Quantitative Plant Breeding	Credit: 4 hours
CPSC 563 Molecular Cytogenetics	Credit: 4 hours
CPSC 564 Molecular Marker Data Analyses	Credit: 2 hours
PLPA 505 Genetics of Host-Pathogen Int.	Credit: 4 hours

Statistics classes:

CPSC 241 Intro to Applied Statistics	Credit: 3 hours
CPSC 440 Applied Statistical Methods I	Credit: 4 hours
CPSC 540 Applied Statistical Methods II	Credit: 5 hours
CPSC 541 Regression Analysis	Credit: 5 hours

Part VI. Strengths and future plans

Strengths: The Department of Crop Sciences at the University of Illinois has a strong focus on integrating plant breeding, molecular genetics, biometry, plant pathology and entomology and includes faculty members working in these areas. Several USDA scientists significantly strengthen the program, advise graduate students and serve on graduate student committees.

Proposed New Courses:

- CPSC 5xx Principles of Plant Breeding II
- CPSC 5xx Plant Breeding Strategies
- CPSC 5xx Plant Breeding Literature Discussion Group

Proposed New Positions:

- Bioenergy Crop Breeder
- Maize pathology with an emphasis on host plant resistance
- Application of bioinformatics to plant breeding
- Crop enhancement through wide hybridizations