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Organized Symposium

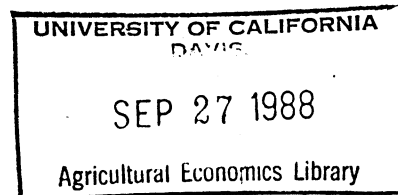
EMERGING CONSIDERATIONS FOR

INTERNATIONALIZING AGRICULTURAL CURRICULA

A Survey of the Teaching of
International Agricultural Trade and Development
in U.S. Departments of Agricultural Economics

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Agriculture -- Education

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I. Survey Methodology

- A. Survey questionnaire was mailed in November 1985 to 81 U.S. universities representing all fifty states.
1. Sample was obtained directly from the listing of "Department Heads and Chairpersons" in the 1984 AAEA membership directory. Dropping the Puerto Rican and Canadian schools at the end of the list and 3 "duplications" within the list (Tuskegee, Alaska and Georgia) leaves the 81 schools who received questionnaires.
 2. 17 of the 81 schools are 1890 institutions. These will be covered by Dr. McDowell.
 3. 53 responses were received from the other 64 schools.

Fig. 1

II. General Results

- A. Departments were asked about teaching, research and extension activities in international agricultural trade and development. Extension activities are not covered in this symposium.

B. 36 Teaching Trade

40 Teaching Development

Fig. 2

34 Research Trade

34 Research Development

30 Teaching Both Trade and Development

29 Research Both Trade and Development

27 Teaching and Research Trade

31 Teaching and Research Development

21 Teaching and Research Both Trade and Development

5 No Teaching or Research in Agricultural Trade or Development

III. Trade Teaching Results

A. Course Offerings

1. The 36 schools which offer at least one trade class have taught a total of 67 classes in the past decade:
 - a. 24 schools offered 28 undergraduate courses
 - b. 25 schools offered 35 graduate courses
 - c. 4 schools offered 1 combined-level course each
2. 22 schools offer a graduate field of specialization in either International Agricultural Trade or Trade and Development

B. Course Content

1. Graduate (N=33, including u/g)

[Fig. 3]

Trade	Finc/Macro	Policy	Mktg/Devl	Descrip	Other
28.7%	14.3%	27.4%	10.6%	11.0%	8.0%

2. Undergraduate (N=26, including u/g)

Trade	Finc/Macro	Policy	Mktg/Devl	Descrip	Other
27.0%	12.4%	22.1%	11.6%	17.6%	9.3%

3. Combined (N=55)

Trade	Finc/Macro	Policy	Mktg/Devl	Descrip	Other
28.7%	14.2%	25.9%	10.7%	12.7%	7.8%

C. General Observations

1. No consensus textbook, either grad or undergrad
 - a. Speaking of Trade (1978), Sorenson (1975)
 - b. McCalla and Josling (1985), Houck (1986)
 - c. Various international texts: (Kreinin, Grennes, Caves & Jones)
2. Large divergences in course content (a function of no common text?); courses seem to have been individually designed.
NOTE: Of 67 trade courses listed, 23 have "policy" in the title. For development courses, that figure is 4 of 91.
3. Level of instruction seems to vary greatly.
4. Presence of Economics departments with International fields probably affects course offerings and course content:
 - a. Prerequisites
 - b. Joint teaching / joint appointments
 - c. Material overlap / duplication
 - d. ECON International courses as requirements for AGEC international field.
5. International Agricultural Trade not yet an established "field".

IV. Development Teaching Results

A. Course Offerings

1. The 40 schools which offer at least one development class have taught a total of 91 classes in the past decade:
 - a. 28 schools offered 40 undergraduate courses
 - b. 29 schools offered 50 graduate courses
 - c. 1 school offered 1 combined-level course
2. 24 schools offer a graduate field of specialization in either International Agricultural Development or Trade and Development

B. Course Content

1. Graduate (N=40)

[Fig. 4]

Farming Systems	Mktg/Trade	Techn'l Change	Inst'n/Policy	Other
5.3%	13.4%	22.6%	34.3%	24.4%

2. Undergraduate (N=33)

Farming Systems	Mktg/Trade	Techn'l Change	Inst'n/Policy	Other
8.1%	13.3%	21.8%	33.0%	23.8%

3. Combined (N=73)

Farming Systems	Mktg/Trade	Techn'l Change	Inst'n/Policy	Other
6.6%	13.4%	22.2%	33.7%	24.1%

C. General Observations

1. A number of textbooks are available
 - a. Todaro, Economic Development in the Third World
 - b. Eicher & Staatz, Agricultural Development in the Third World
 - c. Hayami & Ruttan, Agricultural Development
 - d. Mellor, The Economics of Agricultural Development
 - e. Gittinger, Economic Analysis of Agricultural Projects
2. Less divergences in course content (due to available texts?).
NOTE: Survey was not well designed to cover development. A category for benefit-cost analysis should have been included.
3. Presence of Economics departments with Development fields probably contributes to the unity of course content. Much of "development economics" is agrarian/agricultural.
4. The "field" seems to be well established.

Figure 1. Questionnaire Response Summary

81 Questionnaires Mailed:

N = 17	N = 11	N = 36	N = 17
1890 Institutions	No Response	Existing or Proposed Courses in International Agricultural Trade	No Courses

53 Non-1890 Responses Received

N = 17	N = 11	N = 40	N = 13
1890 Institutions	No Response	Existing Courses in International Agricultural Development	No Courses

53 Non-1890 Responses Received

Figure 2. Colleges and Universities with Trade and Research Programs
in International Agricultural Trade and Development^{a/}

Question: Does your institution have ongoing teaching/research
programs in international agricultural trade/development?^{b/}

Summary:

	Teaching	Research	Both
Trade	36	34	27
Development	40	34	31
Both	30	29	21

a/ Fifty-three Institutions in forty-six states responded to the questionnaire.

b/ A positive response places no valuation on the extent of the response. Five institutions listed neither teaching nor research in Agricultural Trade or Development: U. Chicago, New Mexico State, S. Dakota State, Brigham Young, U. Wisconsin, River Falls

Figure 3. Trade Course Content

Undergraduate (N=26, including u/g)

	<u>Trade Theory</u>	<u>Finance/ Macroecon</u>	<u>Policy</u>	<u>Marketing/ Mkt Devlpt</u>	<u>Descrip/ Inst'ns</u>	<u>Other</u>
Mean	27.0%	12.4%	22.1%	11.6%	17.6%	9.3%
S.D.	18.9	11.7	18.8	16.4	14.2	13.6

Graduate (N=33, including u/g)

	<u>Trade Theory</u>	<u>Finance/ Macroecon</u>	<u>Policy</u>	<u>Marketing/ Mkt Devlpt</u>	<u>Descrip/ Inst'ns</u>	<u>Other</u>
Mean	28.7%	14.3%	27.4%	10.6%	11.0%	8.0%
S.D.	17.2	15.7	15.1	13.7	12.6	12.7

Combined (N=55)

	<u>Trade Theory</u>	<u>Finance/ Macroecon</u>	<u>Policy</u>	<u>Marketing/ Mkt Devlpt</u>	<u>Descrip/ Inst'ns</u>	<u>Other</u>
Mean	28.7%	14.2%	25.9%	10.7%	12.7%	7.8%
S.D.	18.1	14.2	17.0	15.2	12.2	12.9

Figure 4. Development Course Content

Undergraduate (N=33)

	<u>Farming Systems</u>	<u>Mktg/ Trade</u>	<u>Techn'1 Change</u>	<u>Inst'n/ Policy</u>	<u>Other</u>
Mean	8.1%	13.3%	21.8%	33.0%	23.8%
S.D.	12.8	12.0	12.1	13.6	15.9

Graduate (N=40)

	<u>Farming Systems</u>	<u>Mktg/ Trade</u>	<u>Techn'1 Change</u>	<u>Inst'n/ Policy</u>	<u>Other</u>
Mean	5.3%	13.4%	22.6%	34.3%	24.4%
S.D.	6.1	12.3	13.7	15.1	18.8

Combined (N=73)

	<u>Farming Systems</u>	<u>Mktg/ Trade</u>	<u>Techn'1 Change</u>	<u>Inst'n/ Policy</u>	<u>Other</u>
Mean	6.6%	13.4%	22.2%	33.7%	24.1%
S.D.	9.8	12.1	12.9	14.3	17.4

Figure 2-a.

	Teaching		Research	
	Trade	Development	Trade	Development
Auburn	X	X	X	X
U. Arizona		X	X	X
U. Arkansas	X	X	X	
U. Cal, Berkeley	X	X	X	X
U. Cal, Davis	X	X	X	X
Cal Poly, SLO	X	X		X
Cal State, Fresno	X	X		
Colorado State	X	X	X	X
U. Connecticut	X	X		
U. Florida	X	X	X	X
U. Georgia	X	X	X	X
U. Hawaii	X	X	X	X
U. Idaho	X	X	X	X
Southern Illinois	X	X		
Purdue	X	X	X	X
Iowa State	X		X	X
Kansas State	X	X	X	
U. Kentucky	X	X	X	X
Louisiana State			X	X
U. Maine	X		X	
U. Maryland	X	X	X	X
U. Massachusetts		X		X
Michigan State	X	X	X	X
U. Minnesota	X	X	X	X
Mississippi State	X		X	X
U. Missouri	X	X	X	X
Montana State	X	X		
U. Nevada	X			
U. New Hampshire		X		
Rutgers	X	X		X
Cornell	X	X	X	X
N. Carolina State	X	X	X	X
N. Dakota State	X		X	
Ohio State		X	X	X
Oklahoma State	X	X	X	X
Oregon State		X	X	X
Pennsylvania State		X	X	X
U. Rhode Island		X		X
Clemson			X	
U. Tennessee	X	X		
Vanderbilt		X		
Texas A&M	X	X	X	X
Texas Tech	X	X	X	X
U. Vermont	X			
Virginia Tech	X	X	X	X
Washington State		X	X	X
West Virginia		X		X
Wisconsin	X	X	X	X

Positive Trade Respondents (36):

School	Trade Class	Finc/ Theory	Macro	Policy	Mktg/ Devl	Descrip	Other	
Auburn	g	30	15	15	15	20	5	World and U.S. Agricultural Trade
U. Arkansas	u	20	20	20	10	10	20	Agricultural Trade and Commercial Policy
U. Cal, Berkeley	u	60	10	10		20		Advanced Topics in International Trade
	g	25		25	25	15	10	International Markets and Trade
U. Cal, Davis	u	15			50		35	Agricultural Markets, Prices and Trade
	g	25	15	30	20	10		Agricultural Policy in Developed Countries
	g	15			50		35	Economic Analysis of Demand and Trade
Cal Poly, SLD	u	18	10	35	17	10	10	Agricultural Trade Policy
	g	22	18	25	25	10		Agricultural Trade Policy and Export Marketing
	g	10	10	40	25	15		Third World Trade Policy and Marketing
	g	20	10	30	40			International Agricultural Marketing
U. Connecticut	g	25	25	25	10	10	5	Agricultural Trade and Policy in an International Environment
U. Florida	u	20	30			30	20	International and Interregional Trade in Agriculture
	g	60		20		10	10	International Agricultural Trade and Policy
	g		60	20		20		International Agricultural Finance and Policy
U. Georgia	u/g	20	5	30	25	10	10	International Agricultural Trade
U. Hawaii	g	30	30	30		10		International Trade in Agricultural Products
U. Idaho	g	10	5	35	20	20	10	Agricultural Trade and Development
Purdue	u/g	15		15	10	50	10	International Agricultural Trade
	g	50	10	30		10		Advanced International Agricultural Trade
Iowa State	u	10		85		5		Agricultural, Food, and Trade Policy
	g	15	10	70		5		Agricultural Policy and Trade
	g	15	10	25			50	Quantitative Research on Agricultural Policy and Trade
Kansas State	u	13			68	19		Export Marketing of Agricultural and Food Products
	g	50	10	10	10	10	10	Marketing Strategies and Policies in International Grain Markets
U. Kentucky	g	33		33			33	International Trade in Agricultural Products
U. Maine	u	7	7	14	7	14	51	Government Policies Affecting Rural America
U. Maryland	g	50	25	20		5		International Agricultural Trade
Michigan State	g	33		34		33		Agricultural Trade Policies

School	Class	Trade Finc/			Mktg/			Other
		Theory	Macro	Policy	Devl	Descrip		
U. Minnesota	u	10	20	40		30		Agricultural Policy in Planned Economies
	u	20	10	40		20	10	European Agriculture and European Food and Agricultural Policies
	g	30	10	50		10		Applied Welfare Economics and Public Policy
	g	30		50		10	10	The Economics of European Community Food and Agricultural Policies
Mississippi State	u	50	10	10		30		International Trade in Agriculture
	u/g	5			10	50	35	Economics of Export and Import Traffic Management
U. Missouri	g	33	33	33				International Trade
Montana State	u	50	20	20	5	5		International Economics
U. Nevada	u	80		20				International Agricultural Marketing
Rutgers	u	20	20	40	10	10		International Agricultural Trade Policy
Cornell	u	10	10	40		40		Agricultural Trade Policy
	g	50		50				Seminar in Agricultural Trade Policy
N. Carolina State	u	50	50					International Economics
	g	80		10			10	Theory of International Trade
	g	20	60	20				Monetary Aspects of International Trade
N. Dakota State	u	15	15	25	25	10	10	International Trade in Agricultural Products
Oklahoma State	u/g	30	10	10	20	10	20	International Agricultural Markets, Trade and Development
U. Tennessee	u	45		40		5	10	World Agriculture and Trade
Texas A&M	u	25	25	20	10	20		International Trade and Agriculture
	g	30	30	20	10	10		International Agricultural Economics (Special Topics)
Texas Tech	u	45	20	25		10		Trade in Agricultural Products
	g	50	25	20		5		International Trade in Agricultural Products
U. Vermont	u	30	10	15	15	30		World Agriculture (World Food and Population)
	u	20	20	20	20	20		Agriculture in Economic Development
	g	10	20	30	35	5		Seminar on World Food Problems and Politics
Virginia Tech	g	25	25	50				Agricultural Trade Seminar

Additional Trade Courses with Incomplete Information or 100 percent "Other":

School	Class	Trade		Finc/ Macro	Policy	Mktg/		Other
		Theory	Devl			Descrip	Other	
U. Cal, Davis	g							Macroeconomic Development
Cal State, Fresno	u							Agricultural Trade
	u							Agricultural Export Marketing
Colorado State	u	"International Agricultural Trade" proposed but not yet taught						
Southern Illinois	u					5	5	Marketing and Pricing of Agricultural Products
	u	7			7	3	3	Agricultural and Food Policy
	g	5	7		7		3	Problems and Policies of the Agricultural Sector
U. Maine	g							Regional Economics
Rutgers	g							International Trade
Cornell	g						100	Methods of Trade and Commodity Analysis
N. Carolina State	g	15				15	20	Markets and Trade
Wisconsin	u							The International Agricultural Economy

Combined level (u/g) courses:

U. Georgia	u/g	20	5	30	25	10	10	International Agricultural Trade
Purdue	u/g	15		15	10	50	10	International Agricultural Trade
Mississippi State	u/g	5			10	50	35	Economics of Export and Import Traffic Management
Oklahoma State	u/g	30	10	10	20	10	20	International Agricultural Markets, Trade and Development

Positive Development Respondents (40):

School	Class	Farming Systems	Mktg/Trade	Tech'l Change	Instn/Policy	Other	Course Title
Auburn	g	5	15	50	30		Economic Development
U. Arizona	u		25	25	25	25	World Food Economy
	u		33	33	25	9	Agricultural Economic Development in Latin America
	g		25	25	25	25	International Agricultural Development
	g				50	50	Cost-Benefit Analysis
U. Arkansas	g	10	5	20	20	45	Agricultural and Rural Development
U. Cal, Berkeley	u		60	10	30		Economics of the Food Systems
	u	5	10	10	60	15	Agriculture in Economic Development
	g	5	10	10	60	15	Agriculture in Economic Development
	g		20		80		Sectoral and Regional Planning in Economic Development
U. Cal, Davis	g		25	25	25	25	Economic Development
	g		33	33	33		Agriculture in Economic Development
Cal Poly, SLO	u	10	10	17	23	40	World Agricultural Resources
	g	7	3	30	32	28	World Agricultural Development
	g	13		32	35	20	Strategies for Rural Development
Cal State, Fresno	u	5	10	30	40	15	International Agricultural Development
	u				60	40	Rural Development Administration
Colorado State	u	20		20	40	20	Economics of World Agriculture
	u		10	20	60	10	Issues in Development Economics
	g	10		30	50	10	Economics of Agricultural Development
U. Connecticut	u	5	5	10	50	30	Agricultural and Economic Development of Latin America
U. Florida	g		10	20	15	55	Economic Development and Agriculture
	g	20			50	30	Agriculture's Role in the Growth of Latin America
U. Georgia	u			40	60		Rural Economic Development and Growth
	g		20	30	40	10	Advanced Agricultural Development and Growth
	g			40	60		Rural Economic Development and Growth
U. Hawaii	g		15	15	40	30	Seminar in Economic Development - Asia and Tropical Countries
U. Idaho	u		10	40	20	30	Economics of Agricultural Development
Purdue	u	50	10	30	10		Introduction to World Agricultural Development
	u	50	10	20	10	10	International Agricultural Development
Kansas State	u	10	10	60	20		International Agricultural Development
U. Kentucky	u		25	25	25	25	International Agriculture and World Food Needs
	g			15	30	55	Project Analysis for Rural Development
	g	10	25	25	25	15	Agriculture and Economic Development
U. Maryland	u		5	5	40	50	World Hunger, Population and Food Supplies
	u	5	5	10	30	50	Agriculture in Economic Development

School	Class	Farming Systems	Mktg/ Trade	Tech'l Change	Instn/ Policy	Other	Course Title
U. Massachusetts	u			25	25	50	World Food Opportunities and Constraints
	u	5	10	15	30	40	International Agricultural Development
	g	5	10	10	30	45	Seminar in Agricultural Development
U. Minnesota	u		20	30	30	20	Agricultural and Economic Growth in Developing Countries
	u	30	10	10	30	20	Economics of World Agriculture
	g		20	30	30	20	Agricultural and Economic Development
	g		20	30	30	20	Agricultural Development
U. Missouri	u	5	15	30	50		International Agricultural Economic Development
	g	5	5	50	30	10	International Agricultural Economic Policy
U. New Hampshire	u	5	10	20	35	30	Population, Food and Resource Use in Developing Countries
Rutgers	u	15	20	15	30	20	Economics of Peasant Agriculture
	u			25	25	50	Economic Growth, Man and the Environment
Cornell	u	5	10	20	35	30	Economics of Agricultural Development
	g	5	15	20	50	10	Seminar on Latin American Policy
	g			10	70	20	Seminar on Agricultural Policy
	g			40	20	40	Microeconomic Issues in Agricultural Development
	g			40	30	30	Sociotechnical Aspects of Irrigation
	g	20	20	20	20	20	Food, Population and Employment I
	g	20	20	20	20	20	Food, Population and Employment II
N. Carolina State	g		20	10	10	60	Economic Development
	g		30		30	40	Advanced Economic Development
Ohio State	u	15	5	30	20	30	Development of Rural Economic Systems
	g	10	20	30	30	10	Seminar in Economic Development of Foreign Agriculture
Oklahoma State	g	5	5	5	20	65	Development Planning and Project Appraisal
	g	10	50	10	30		International Agricultural Trade Policy and Development
Pennsylvania State	u		20	30	30	20	International Agricultural Development
U. Rhode Island	u		20	10	30	40	International Resource Development
	u	12	25	25	25	13	Problems of Modernization in Developing Countries
U. Tennessee	g	5	15	35	20	25	Economics of Agricultural Development
Texas A&M	g	8	15	8	23	46	Economics of Underdeveloped Areas
Texas Tech	g	10	10	30	50		Rural Economic Development
	g	15	15	35	35		Analysis of Agricultural and Agroindustrial Projects
Virginia Tech	u	5	10	5	40	40	World Agriculture and Human Welfare
	g	5	40	10	25	20	International Agricultural Trade and Development
Washington State	u	10	25	25	25	15	International Agriculture and Development
West Virginia	g	10		40	40	10	International Agricultural Economic Development
	g			20	30	50	Project Analysis and Evaluation

Additional Development Courses with Incomplete Information or 100 percent categories:

School	Class	Farming Systems	Mktg/ Trade	Tech'l Change	Instn/ Policy	Other	Course Title
Cal State, Fresno	g						Agricultural Sector Planning
Colorado State	g					100	Planning for Development
Southern Illinois	u/g	100					Farming Systems Research and Development
U. Maryland	g						Agriculture's Role in World Economic Development
Michigan State	u						Agricultural Development in Developing Nations
	u						World Food, Population and Poverty
	g						Agriculture in Economic Development
	g						Development Planning and Agricultural Sector Analysis
	g					100	Data Collection in Developing Countries
Montana State	u						Economic Development
Cornell	u					100	Economics of Agricultural Geography
Oregon State	u						International Agricultural Development
Vanderbilt	g						Agriculture and Economic Development
Wisconsin	u						Economic Problems of Underdeveloped Areas
	u						Economic Development of Agriculture
	g						Agricultural Data Systems for Developing Countries
	g						Macroeconomics of Agricultural Development
	g						Microeconomics of Agricultural Development