

Agriculture at the Metropolitan Edge

Geography 298, Section 2

Spring 2007, Tuesdays 3:30 - 5:30 PM, 315D Wurster Hall

CCN: 36784, 2-3 units S/U

<http://newruralism.pbwiki.com/Geog298>

Course coordinator:

Sibella Kraus (Director, Agriculture at the Metropolitan Edge program) sibellakraus@berkeley.edu

Course facilitators:

Nathan McClintock (PhD student, Geography) mcclintock@berkeley.edu

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Faculty sponsor:

Michael Johns (Professor & Department Head, Geography)

Course Description: A robust agricultural system is vital to the health of metropolitan regions worldwide. This course will engage students in an investigation of urban-rural interface issues including land use policies and economics, the role of local food systems, environmental services and impacts, and urban/rural linkages. Through case study-based lectures and weekly readings and discussions, students will explore periurban agriculture as one of the basic frameworks for understanding and managing the growth of metropolitan regions worldwide. In order to receive 3 units, students may also prepare individual presentations. The first seven weeks will be spent on readings and discussion, establishing basic knowledge and a common language for describing urban-rural interface issues. During each of these first weeks, a doctoral student or visiting speaker will present a case study relevant to the themes of the class. The last two weeks will be devoted to presentation of student research projects. The course will culminate with attendance at the Agriculture at the Metropolitan Edge symposium, April 5-6.

Course Objectives: By completing weekly readings, leading and participating in class discussions, and preparing an individual presentation, students will gain an understanding of the following themes:

- Rural-Urban Linkages
- Urban Edge Land Use Policy and Economics
- Environmental Services and Constraints
- Livelihood Conservation Strategies and Vitality of Rural Communities
- Local Food Systems and Food Justice
- Future Policy Strategies

These themes all depend on answering a central question: What are the critical linkages between urban and rural areas? By the end of the course, students will be prepared to debate this question, and participate in discussions on the future of periurban agriculture around the world. Students will also be able to evaluate the likely costs and benefits of proposed projects and policies for the urban edge.

Course Requirements: Weekly readings and class discussions, and one optional presentation on best practices for developing local food systems in a metropolitan area. Students will be expected to lead class discussion of readings at least once. Research projects will be chosen from a list of examples in industrialized settings such as the US/Canada/EU/Aus/NZ, as well as in so-called transitional economies (China, Mexico, etc) and developing countries (Africa, Central America, etc).

Course Meetings: There will be an informational meeting in the first week of classes, after which the class will meet weekly for 10 weeks, for 2 hours each session. Students will also be expected to attend the AME symposium, April 5-6.

Course Schedule & Reading Assignments:

Week 1 (1/16):

Informational meeting. Introduction, review of syllabus, housekeeping. Open to prospective students.

Week 2 (1/23): Framing the Peri-Urban Interface & Feeding Cities

Dickinson, Robert Eric. *City and Region: A Geographical Interpretation*. London: Routledge and Kegan Paul, 1964, 554-576

Howard, Ebenezer. 1946. *Garden Cities of To-morrow*. London: Faber and Faber Ltd, 41-57, 138-150.

Simon, D., D. McGregor, & D. Thompson. 2006. Contemporary Perspectives on the Peri-Urban Zones of Cities in Developing Areas. In McGregor, Simon and Thompson (eds.) *The Peri-Urban Interface*. London: Earthscan, 3-12.

Douglas, Ian. 2006. Peri-Urban Ecosystems and Societies: Transitional Zones and Contrasting Values. In McGregor, Simon and Thompson (eds.) *The Peri-Urban Interface*. London: Earthscan, 18-29.

Ellis, Frank & James Sumberg. 1998. Food Production, Urban Areas and Policy Responses. *World Development* 26(2):213-225.

Midmore, D.J., & H.G.P. Jansen. 2003. Supplying vegetables to Asian cities: is there a case for peri-urban production? *Food Policy* 28:13-27.

Houston, Peter. 2005. Re-Valuing the Fringe: Some Findings on the Value of Agricultural Production in Australia's Peri-Urban Regions. *Geographical Research* 43(2):209-233.

Hedden, W.P. 1929. Chapter II: Watersheds, Milksheds and Foodsheds. *How Great Cities are Fed*. Boston: D.C. Heath and Company, 17-36.

Week 3 (1/30): Rural-Urban Linkages

Shuman, Michael. H. 1998. *Going Local: creating self-reliant communities in a global age*. New York, New York: The Free Press. (selection TBD if book becomes available)

Diamond, Jared. 2005. *Collapse*. New York: Viking, 136-156.

Tacoli, Cecilia. 1998. Rural-Urban interactions: a guide to the literature. *Environment & Urbanization* 10(1):147-165.

Freidberg, Susanne E. 2001. Gardening on the Edge: The Social Conditions of Unsustainability on an African Urban Periphery. *Annals of the Amer. Assoc. of Geog.* 91(2):349-369.

Van den Berg et al. 2003. The transformation of agriculture and rural life downstream of Hanoi. *Environment & Urbanization* 15(1):35-52.

Moustier, Paul and George Danso. "Ch. 7: Local Economic Development and Marketing of Urban Produced Food." 2006. *Cities Farming for the Future*. Ed. Rene van Veenhuizen. RUA/IDRC. http://www.idrc.ca/en/ev-103808-201-1-DO_TOPIC.html

Jacobs, Jane. 1984. Chapter Four: Supply Regions. *Cities and the Wealth of Nations*. New York: Vintage Books, 59-71.

Week 4 (2/6): Local Food Systems, Food Security, & Food Justice

Unger, Serena and Heather Wooten. 2006. *Oakland Food System Assessment Report*. University of California, Berkeley, Master's Thesis. (selection TBA)

Kaufman, Jerry, Kami Pothukuchi, and Deanna Glosser. 2006. DRAFT Community and Regional Food Planning: A Policy Guide for the American Planning Association.

Howe, Joe. 2002. Planning for Urban Food: The Experience of Two UK Cities. *Planning Practice & Research* 17(2):125-144.

- Power, Elaine. "Combining Social Justice & Sustainability for food security." In *For Hunger-Proof Cities: Sustainable Urban Food Systems*. http://www.idrc.ca/en/ev-30587-201-1-DO_TOPIC.html
- Rengasamy et al. 2003. Farmers' markets in Tamil Nadu: increasing options for rural producers, improving access for urban consumers. *Environment & Urbanization* 15(1):25-33.
- Halweil, Brian. 2004. Chapter 9: When Eating Local Gets Personal. *Eat Here: Reclaiming Homegrown Pleasures in a Global Supermarket*. Washington, D.C.: Worldwatch, 157-177.
- Pollan, Michael. 2006. Introduction and Chapter Thirteen: The Market: "Greetings from the Non-Barcode People". *The Omnivore's Dilemma: A Natural History of Four Meals*. New York: The Penguin Press, 1-11, 239-261.

Presenter: Heather Wooten

Topic: Urban food security assessments (Case Study: Oakland)

Week 5 (2/13): Environmental Services & Constraints

- Daily, Gretchen and Katherine Ellison. 2002. *The New Economy of Nature*. Washington, DC: Island Press, 1-17, 205-233.
- Rees, William & Mathis Wackernagel. 1996. Urban ecological footprints: why cities cannot be sustainable—and why they are a key to sustainability. *Environmental Impact Assessment Review* 16:223-248.
- Davis, Mike. 2006. Ch. 6: Slum Ecology. *Planet of Slums*. London: Verso.
- Foster, John Bellamy and Fred Magdoff. 2000. Liebig, Marx, and the Depletion of Soil Fertility: Relevance for Today's Agriculture. In Magdoff, Foster, & Buttel (eds.) *Hungry for Profit*. New York: Monthly Review Press.
- Cofie, Olufunke and A. Adams Bradford. "Ch. 8. Organic waste reuse for urban agriculture." *Cities Farming for the Future*. Ed. Rene van Veenhuizen. RUAF/IDRC. http://www.idrc.ca/en/ev-103817-201-1-DO_TOPIC.html
- Buechler, Stephanie, Gayathri Devi Mekala and Ben Keraita. 2006. "Ch. 9. Wastewater Use for Urban and Peri-urban Agriculture." *Cities Farming for the Future*. Ed. Rene van Veenhuizen. RUAF/IDRC. http://www.idrc.ca/en/ev-103865-201-1-DO_TOPIC.html
- Eaton & Hilhorst. 2003. Opportunities for managing solid waste flows in the peri-urban interface of Bamako and Ouagadougou. *Environment & Urbanization* 15(1):53-64.

Presenter: Nathan McClintock

Topic: Nutrient Cycling in Peri-Urban Agriculture (Case Study: Bamako, Mali)

Week 6 (2/20): Livelihood Conservation Strategies & Vitality of Rural Communities

- Arendt, Randall, Elizabeth Brabec, Harry L. Dodson, Christine Reid and Robert D. Yaro. 1994. *Rural By Design: Maintaining Small Town Character*. Chicago: American Planning Association Press, 289-314.
- Northrup, Benjamin A., & Benjamin J. Bruxvoort Lipscomb. 2003. Country and City: The Common Vision of Agrarians and New Urbanists. In Norman Wirzba (ed.) *The Essential Agrarian Reader*. Washington: Shoemaker & Hoard, pp. 191-211.
- DeLind, Laura. 2002. Place, work, and civic agriculture: Common fields for cultivation. *Agriculture and Human Values* 19:217-224.
- Mariola, Matthew J. 2005. Losing ground: Farmland preservation, economic utilitarianism, and the erosion of the agrarian ideal. *Agriculture & Human Values* 22:209-223.

- Foster, Richard H. and Mark K. McBeth. 1996. Urban-rural influences in U.S. environmental and economic development policy. *Journal of Rural Studies* 12(4):387-397.
- Halweil, Brian. 2004. Chapter 4: Where Have All the Farmers Gone? *Eat Here: Reclaiming Homegrown Pleasures in a Global Supermarket*. Washington, D.C.: Worldwatch, 59-78.

Presenter: Sibella Kraus

Topic: TBA

Week 7 (2/27): Land Use Policy & Economics

- Heimlich, Ralph E. and William D. Anderson. Development at the Urban Fringe and Beyond: Impacts on Agriculture and Rural Land. AER-803. U.S. Department of Agriculture, Economic Research Service, 2001.
- Leichenko, Robin M. and William Solecki. 2005. Exporting the American Dream: Globalization of Suburban Consumption Landscapes. *Regional Studies* 39(2):241-253.
- Gordon, Peter and Harry Richardson. 1998. Farmland Preservation and Ecological Footprints: A Critique. *Planning and Markets* 1(1).
- Pfeffer, M. J. and M. B. Lapping. 1994. Farmland Preservation, Development Rights, and the Theory of the Growth Machine: The Views of Planners. *Journal of Rural Studies* 10(3): 233-248.
- Bunce, Michael. 1998. Thirty Years of Farmland Preservation in North America: Discourses and Ideologies of a Movement. *Journal of Rural Studies* 14(2):233-247.
- Brabec, Elizabeth, & Chip Smith. 2002. Agricultural land fragmentation: the spatial effects of three land protection strategies in the eastern United States. *Landscape and Urban Planning* 58:255-268.

Presenter: Patrick Archie, PhD Student, ESPM (tentative)

Topic: Agricultural Land Trusts (Case Study: Marin, Sonoma, Napa)

Week 8 (3/6): Policy & Planning Strategies (Where do we go from here?)

- Allen, Adriana. Environmental planning and management of the peri-urban interface: perspectives on an emerging field. *Environment & Urbanization* 15(1):135-147.
- Cisse, Oumar, N.F.D. Gueye, & Moussa Sy. 2005. Institutional and legal aspects of urban agriculture in French-speaking West Africa: from marginalization to legitimization. *Environment & Urbanization* 17(1):143-154.
- Moujeout, Luc J.A. 2006. "Part 5: Recommendations." *Growing Better Cities*. http://www.idrc.ca/en/ev-95366-201-1-DO_TOPIC.html
- Dubbeling, Marielle and Gunther Merzthal. 2006. "Ch. 2. Sustaining Urban Agriculture Requires the Involvement of Multiple Stakeholders." *Cities Farming for the Future*. Ed. Rene van Veenhuizen. RUAF/IDRC. http://www.idrc.ca/en/ev-103732-201-1-DO_TOPIC.html
- Mubvani, Takawira and Shingirayi Mushamba. 2006. "Ch. 3. Integration of Agriculture in Urban Land Use Planning and Adaptation of City Regulations." *Cities Farming for the Future*. Ed. Rene van Veenhuizen. RUAF/IDRC. http://www.idrc.ca/en/ev-103759-201-1-DO_TOPIC.html
- Olmo, Rafael Mata, & Santiago Fernandez Munoz. 2004. La Huerta de Murcia: Landscape Guidelines for a Peri-Urban Territory. *Landscape Research* 29(4):385-397.

Presenter: TBA

Topic: Farm Bill

Week 9 (3/13):

Student presentations

Week 10 (3/20):

Student presentations, course evaluations

Week 11 (3/27):

Spring Break, NO CLASS

Week 12 (3/5 & 3/6):

Attend AME symposium

Week of 3/9-3/13:

Potluck dinner, time & location TBA