

## FREDERICK W. CUBBAGE - CV

### *Forest Economics and Natural Resource Policy*

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22 November 2019

## EDUCATION

Ph.D. Forest Economics	University of Minnesota	1981
M.S. Forest Policy	University of Minnesota	1978
B.S. Forestry	Iowa State University	1974

## PROFESSIONAL EXPERIENCE

- Professor and Co-Director, Southern Forest Resource Assessment Consortium (SOFAC); Department of Forestry and Environmental Resources, North Carolina State University, Raleigh, North Carolina, 2004-2020
- President, Society of American Foresters, 2017; Board of Directors, 2005-2008, 2016-2018
- Professor and Head, North Carolina State University, Department of Forestry, 1994-2004
- Project Leader, Economics of Forest Protection and Management Work Unit, Southeastern Forest Experiment Station, Research Triangle Park, North Carolina, 1991-1994
- Assistant Professor, Associate Professor, and Professor, University of Georgia School of Forest Resources, Athens, 1982-1991
- Associate Economist, Southern Forest Experiment Station, New Orleans, 1979-1982
- Service Forester, Kentucky Division of Forestry, Elizabethtown, 1974-1976

## >500 CAREER PUBLICATIONS

- Senior author of *Forest Resource Policy (1993)*; *Natural Resource Policy (2017)*
- Editor, *SAF Forests and Forestry in the Americas: An Encyclopedia (2009-2015)*
- Chair and co-author, National Research Council Report, *Forestry Research Capacity (2002)*
- ~150 refereed journal articles; 25 peer reviewed book chapters and editorships
- ~70 non-refereed book chapters; experiment station publications; working papers
- 175 proceedings articles, web-based, CD publications; 60 popular articles
- And ~550 speeches and poster presentations
- ResearchGate RG Score: ~34 (92.5% rank); h-index: 22

## INSTRUCTION AND ADVISING

- Taught 22 different subjects/course levels; 100 classes; Most at NCSU and UGA
- Natural Resource Policy and Management, Forest Economics, 1994-2019
- Natural Resource Issues, Sustainable Forest Management and Certification, Introduction to Natural Resources, Wood Procurement, occasionally, 1994-2005
- Advised or co-advised ~85 graduate students: 62 MS/MF/MFR/MNR; 23 PhD

## **ACADEMIC SERVICE**

- NCSU Faculty Senate Member, 2014-2016
- Coordinator, Master of Natural Resources Program, NCSU, 2012-present
- NCSU FER Post Tenure Review Committee Member, 2009, 2016; Chairperson, 2012
- NCSU FER Promotion and Tenure Committee Member/Chairperson, 2006-2007, 2008-2009
- NCSU University Promotion and Tenure Review Committee, 2006-2007
- NCSU Student Fulbright Application Dossier Reviews and Interviews, 2016, 2017

## **INTERNATIONAL**

- Sabbatical, Fulbright Lecturing/Research Environmental Science Scholar, August-December, 2004, Uruguay and Argentina
- Sabbatical, South America tours, university visits, meetings, 2012-2018, Argentina, Brazil, Chile, Colombia, Uruguay, Denmark, Sweden, Finland, Germany, Spain, Portugal, China, Peru, Viet Nam, New Zealand, Australia, Poland
- Research team leader, economics/ecotourism project, Paraná, Brasil, 1991-1994
- Study tours and student tours, 20 countries
- Short courses and program reviews, Thailand, Malaysia, Switzerland, Germany, British Columbia
- Spanish language – 12 years of NC State University and Wake Tech classes, 2002-2015; capable at ACTFL intermediate advanced level
- Portuguese – 2 years, 1993, 2008, 2009; reading and limited oral comprehension ability

## **CERTIFICATION / PROFESSIONAL SERVICE**

- Registered Forester, North Carolina
- Vice-President/President/Past President, Society of American Foresters (SAF), 2016-2018
- Fellow, SAF; National SAF Council Member, 2005-2008
- Chairperson, SAF National Convention, 2013
- Program Co/Chairperson, Appalachian SAF Annual Meeting, 2013, 2015
- Member, Sustainable Forestry Initiative (SFI) External Review Panel, 2007-2013
- Member, American Tree Farm System Standards Review Committee, 2009
- Member, ~15 professional and conservation organizations
- NCSU Representative, North Carolina Longleaf Coalition Task Force, 2013-2017
- Chairperson, National Research Council Forestry Research Capacity Study, 2002

## **GRANTS & CONSULTING**

- ~115 external research grants as a professor or project leader, PI or Co-PI
- ~\$17 million total
- Consulting: World Bank—South America, Mexico, Chile, Vietnam, Lao PDR, 2005-2018
- Consulting: legal; forest industry; U.S. NGOs; scientific reviews; other, 2004-2019

## **SELECTED REFEREED PUBLICATIONS, 2009-2019**

### **Books**

Cubbage, Frederick, Jay O'Laughlin, and Nils Peterson. 2017. *Natural Resource Policy*. Waveland Press. 505 p.

Cubbage, Frederick W., Editor. 2009-2016. *Forests and Forestry in the Americas: An Encyclopedia*. Sponsored by the Society of American Foresters and the International Society of Tropical Foresters. Wiki encyclopedia. [http://encyclopediaofforestry.org/index.php/Main\\_Page](http://encyclopediaofforestry.org/index.php/Main_Page).

National Research Council. 2002. *National Capacity in Forestry Research*. Written by Frederick W. Cubbage, Perry J. Brown, Thomas R. Crow, John C. Gordon, John W. Humke, Rex B. McCullough, and Ronald R. Sederoff. National Academy of Science Press. Washington, D.C. 144 p.

Cubbage, Frederick W., Jay O'Laughlin, and Charles S. Bullock III. 1993. *Forest Resource Policy*. John Wiley, Inc. New York. 562 p.

### **Refereed Journal Articles**

#### **2019**

Cubbage, Frederick, Bruno Kanieski, Rafael Rubilar, Adriana Bussoni, Virginia Morales, Gustavo Balmelli, Patrio MacDonagh, Roger Lord, Carmelo Hernández, Pu Zhang, Jin Huang, Jaana Korhonen, Richard Yao, Peter Hall, Rafael De La Torre, Luiz Balteiro, Omar Carrero, Elizabeth Monges, Ha Tran Thi Thu, Greg Frey, Mike Howard, Michael Chavet, Shaun Mochan, Vitor Hoeflich, Rafal Chudy, Stephanie Chizmar, and Robert Abt. 2019. *Global timber plantation investments, 2005-2017*. *Forest Policy and Economics Special Issue on Forest Investments*. Revision submitted and under review.

Chudy, Rafal, Karolina Chudy, Bruno Kanieski, and Frederick Cubbage. 2019. *Timberland investments and risks: A Monte Carlo analysis*. *Forest Policy and Economics Special Issue on Forest Investments*. Accepted.

Kanieski\*, Bruno, Frederick Cubbage, and Robert Abt. 2019. *Structural changes in the pulpwood market in the U.S. South: Wood pellets investments and timber price dynamics*. *Forest Policy and Economics*. Accepted for Publication; pending.

McGinley, Kathleen, Richard Guldin, and Frederick Cubbage. 2019. *Forest sector research and development capacity*. *Journal of Forestry*. ~ October 2019.

Parajuli, Rajan, Shaun Tanger, Robert Abt, Frederick Cubbage. 2019. *SubRegional timber supply projections with chip-n-saw implications for southern stumpage markets*. *Forest Science: A note*. ~April 2019.

Bussoni, Adriana, Juan Alvarez, Frederick Cubbage, Gustavo Ferreira & Valentin Picasso. 2019. *Diverse strategies for integration of forestry and livestock production*. *Agroforestry Systems* 93(1): 333–344. 10.1007/s10457-017-0092-7.

Frey, G., F. Cubbage, T. Holmes, G. Reyes-Retana, R. Davis, C. Megevand, D. Rodriguez-Paredes, Y. Kraus-Elsin, B. Hernandez-Toro, D. Nacibe Chemor-Salas. 2019. *Competitiveness, certification, and support of timber harvest by community forest enterprises in Mexico*. *Forest Policy and Economics* 107. 10.1016/j.forpol.2019.05.009.

Kanieski, Bruno, Frederick Cubbage, Ronalds Gonzalez & Robert Abt. *Assessing market power in the US pulp and paper industry*. *Forest Policy and Economics* (102): 138–150. 10.1016/j.forpol.2019.03.009.

Nepal, P., J. Korhonen, J.P. Prestemon, and F.W. Cubbage. 2019. *Projecting Global and Regional Forest Area under the Shared Socioeconomic Pathways Using an Updated Environmental Kuznets Curve Model*. *Forests* (10):5. 10.3390/f10050387.

Nepal, P., J. Korhonen, J.P. Prestemon, and F.W. Cubbage. 2019. Projecting global planted forest area developments and the associated impacts on global forest product markets. *Journal of Environmental Management* 240: 421–430.

Foster\*, Michaela, M. Nils Peterson, Frederick Cubbage, and Gerard McMahon. 2019. Evaluating natural resource planning for longleaf pine ecosystems in the Southeast United States. *Forest Policy and Economics* 100(2019):142-153. <https://doi.org/10.1016/j.forpol.2018.11.008>

Zhang\* Pu, Youjun He, Yiming Feng, Rafael Del La Torre, Hongyan Jia, JixinTang, Frederick Cubbage. 2019. An analysis of potential investment returns of planted forests in South China. *New Forests*, Online 04 March 2019. DOI <https://doi-org.prox.lib.ncsu.edu/10.1007/s11056-019-0978-x>.

Mac Donagh\*, Patricio, Santiago José Elías Velazco, Guido F. Botta, Tomas Schlichter, and Fred Cubbage. 2019. Logging contractors' growth in the Southern Cone: An analysis of contractor business strategies, innovation, and mechanization. *Forests* (2019), 10, doi:10.3390/f10010069. 12 p.

Bruck\*, Sonia R., Badege Bishaw, Tamara L. Cushing, Frederick W. Cubbage. 2019. Modeling financial potential of silvopasture agroforestry in eastern North Carolina and Northeastern Oregon. *Journal of Forestry* 117(1):13-20.

## 2018

Clark\*, K. E., E. Chin, M. N. Peterson, K. Lackstrom, K. Dow, M. Foster, and F. Cubbage. 2018. Evaluating climate change planning for longleaf pine ecosystems in the Southeast United States. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 5:151–168.

Xue\*, Han, Gregory E. Frey, Geng Yude, Frederick W. Cubbage, Zhang Zhaohui. Reform and efficiency of State-owned Forestry Enterprises in Northeast China as “Social Firms.” *Journal of Forest Economics* 32(2018):18-33.

Siry, Jacek, Frederick Cubbage, Kevin Potter, and Kathleen McGinley. 2018. Perspectives on sustainable forest management: North America. *Current Forestry Reports* September 2018, Volume 4, Issue 3, pp 138–149. Published On-Line at: <https://doi.org/10.1007/s40725-018-0079-2>.

Frey, Gregory E., Frederick W. Cubbage, Tran T. T. Ha, Robert R. Davis, James B. Carle, and Nguyen V. Dzung. 2018. Financial analysis and comparison of smallholder forest and State Forest Enterprise plantations in Central Vietnam. *International Forestry Review* 20(2):181-198. <http://www.bioone.org/doi/full/10.1505/146554818823767582>

Rodriguez\*, Shari, M. Nils Peterson, Frederick Cubbage, Erin Sills, Howard Bondell. 2018. What is private land stewardship? Lessons from agricultural opinion leaders in North Carolina. *Sustainability* 10(2018):297. doi:10.3390/su10020297. 12 p.

Cubbage, Frederick, Robert Abt, Ray Sheffield, Curt Flather, and James Wickham. 2018. Forest wetland area and the forest sector economy in the South. *Open Journal of Forestry* 2018 (8): 409-428. <http://www.scirp.org/journal/ojf>. ISSN Online: 2163-0437. ISSN Print: 2163-0429

## 2017

McGinley, K.A., and F.W. Cubbage. 2017. Examining forest governance in the United States through the Montreal Process Criteria and Indicators Framework. *International Forestry Review* 19(2):192-208.

Bashari\*, Mujtaba ; Sills, Erin; Peterson, Markus; Cubbage, Fred. 2017. Illegal Hunting in Afghanistan: Variation in Motivations across Species. *Oryx*-16-A-0109.R1,

Mac Donagh\*, Patricio, Guido Botta, Thomas Schlichter, and Frederick Cubbage. 2017. Harvesting contractor production and costs in forest plantations of Argentina, Brazil, and Uruguay. *International Journal of Forest Engineering* 28(3):157-168. Published online: 10 Aug 2017. Download citation: <https://doi.org/10.1080/14942119.2017.1360657>.

García-Montiel\*, Emily, Frederick Cabbage, Alberto Rojo-Alboreca, Concepción Lujan-Álvarez, Eusebio Montiel-Antuna, and José Javier Corral-Rivas. 2017. An Analysis of Non-State and State Approaches for Forest Certification in Mexico. *Forests* 2017, 8, 290; doi:10.3390/f8080290 [www.mdpi.com/journal/forests](http://www.mdpi.com/journal/forests). 18 P. doi: 10.3390/f8080290

Blackman, A., Raimondi, A., Cabbage, F. 2017. Does forest certification in developing countries have environmental benefits? Insights from Mexican corrective action requests. *International Forestry Review* 19(3):247-264.

Franzluebbbers, Alan J., Janet C. Chappell\*, Wei Shi, Frederick W. Cabbage. 2017. Greenhouse gas emissions in an agroforestry system of the southeastern USA. *Nutrient Cycling in Agroecosystem* (2017) 108:85–100. DOI 10.1007/s10705-016-9809-7doi:10.2136/sssaj2016.07.0216.

Kanieski\*, Bruno, Frederick Cabbage, and Chris Singleton. 2017. Timberland investment management organizations (TIMOs): Business management strategies in forest plantations in Brazil. *Journal of Forestry* 115(2):95-102. DOI: <https://doi.org/10.5849/jof.2016-050>.

Bussoni\*, Adriana Bussoni, Jorge Alvarez, Frederick Cabbage, Gustavo Ferreira, and Valentin Picasso. 2017. Diverse strategies for integration of forestry and livestock production. *Agroforestry Systems*. 12 p. Online at: <https://link.springer.com/article/10.1007/s10457-017-0092-7>; <https://doi.org/10.1007/s10457-017-0092-7>.

Maldonado, Juan Regino, Yali Wen, Frederick Cabbage. 2017. Forest resources in the performance of Mexican Community Forest Enterprises in a vertical integration system. *International Journal of Sciences* 3(09):1-15. September 2017. <https://www.ijsciences.com/pub/pdf/V62017091163.pdf>, <http://www.ijsciences.com/pub/issue/2017-09/>.

Deiss, Leonardo, Alan J. Franzluebbbers, Aziz Amoozegar, Dean Hesterberg, Matthew Polizzotto Frederick Cabbage. 2017. Soil carbon fractions from an alluvial soil texture gradient in North Carolina. *Soil Science Society of America Journal* 81(5):1096. DOI10.2136/sssaj2016.09.0304

## 2016

Korhonen, Jaana, Anne Topinen, Jari Kuuluvainen, Jeffrey Prestemon, and Frederick Cabbage. 2016. Recycling, certification, and international trade of paper and paperboard: Demand in Germany and the United States. *Forest Science* 63(5):449-458. <https://doi.org/10.5849/FS-2016-073R2>

Singh\*, Damien, Frederick Cabbage, Ronalds Gonzalez, and Robert Abt. 2016. Locational determinants for wood pellet plants: A review and case study of North and South America. *BioResources* 11(3): 7928-7952.

Foster\*, M., M. N. Peterson, F. Cabbage, and G. McMahon. 2016. Meta-analysis of natural resources conservation plan evaluations. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 3:296–302. Available at: <https://www.fs.usda.gov/treearch/pubs/52213>.

## 2015

Cabbage, Frederick W., Robert R. Davis., Diana Rodriguez Paredes, Ramon Mollenhauer, Yoanna Kraus Elsin, Gregory E. Frey, Iganacio A. Gonzlaez Hernández, Humberto Albarrán Hurtado, Anita Mercedes Salazr Cruz, Diana Nacibe Chemor Cruz. 2015. Community Forestry Enterprises in Mexico: Sustainability and Competitiveness. *Journal of Sustainable Forestry* 34(6-7): 623-650. DOI: 10.1080/10549811.2015.1040514.

Siry, Jacek P., Kathleen McGinley, Frederick W. Cabbage, and Pete Bettinger. 2015. Forest tenure and sustainable forest management. *Open Journal of Forestry* 5:526-545. Published online at: <http://www.scrip.org/journal/ojf>; <http://dx.doi.org/10.4236/ojf.2015.55046>.

Jenni-Lee, Graise, Jenifer Jameson, Nils Peterson, Fred W. Cubbage. 2015. Military perspectives on public relations related to environmental issues. *Journal of Public Relations Research* 27(4):353-369, DOI: 10.1080/1062726X.2015.1027770.

Serenari, Christopher, M. Nils Peterson, Christopher E. Moorman, Frederick Cubbage & Suzanne Jervis. 2015. Application of Choice Experiments to Determine Stakeholder Preferences for Woody Biomass Harvesting Guidelines. *Journal of Sustainable Forestry* 34(4):343-357. DOI: 10.1080/10549811.2015.1007511.

## 2009-2014

Cubbage, Frederick, Patricio MacDonagh, Gustavo Balmelli, Virginia Morales Olmos, Adriana Bussoni, Rafael Rubilar, Rafael de la Torre, Roger Lord, Jin Huang, Vitor Afonso Hoeflich, Mauro Murara, Bruno Kaniski, Peter Hall, Richard Yao, Paul Adams, Heynz Kotze, Elizabeth Monges, Carmelo Hernandez Perez, Jeff Wikle, Robert Abt, Ronalds Gonzalez, and Omar Carrero. 2014. Global timber investments and trends, 2005-2011. *New Zealand Journal of Forestry Science* 44(Suppl 1):57. Accessed at: <http://www.nzforestryscience.com/content/4451/s7>. 5 December 2014.

Jeuck, James A., Frederick W. Cubbage, Robert C. Abt, Robert E. Bardon, James B. McCarter, John W. Coulston, and Mitch A. Renkow. 2014. Assessing independent variables used in econometric modeling of forest land use or land cover change: A Meta-Analysis. *Forests* 2014 (5):1532-1564. doi: 10.3390/f5071532. Accessed at: <http://www.mdpi.com/1999-4907/5/7/1532>. 11 July 2014.

Korhonen, J., A.Toppinen, F. Cubbage, and J. Kuuluvainen. 2014. Factors driving investment in planted forests: a comparison between OECD and non-OECD countries. *International Forestry Review* 16(1):67-77.

Chudy Rafal, Robert C. Abt, Ragnar Jonsson, Jeffrey P. Prestemon, and Frederick W. Cubbage. 2013. Modeling the impacts of EU bioenergy demand on the forest sector of the Southeast U.S. *Journal of Energy and Power Engineering* 7(6):1073-1081.

Rodriguez, Shari, M. Nils Peterson, Frederick Cubbage, Erin Sills, and Howard Bondell. 2012. Private Landowner Interest in Market Based Conservation Incentive Programs for Endangered Species Habitat Conservation. *Wildlife Society Bulletin* 36:469-476.

Fielding, Diane, Frederick Cubbage, M. Nils Peterson, Dennis Hazel, Brunell Gugelmann, Christopher Moorman. 2012. Opinions of Forest Managers, Loggers and Forest Landowners in North Carolina Regarding Biomass Harvesting Guidelines. *International Journal of Forestry Research*, vol. 2012, Article ID 256141, 15 pages, 2012. doi:10.1155/2012/256141.

McGinley, Kathleen, Raquel Alvarado, Frederick Cubbage, Diana Diaz, Pablo J. Donoso, Laércio Antônio Gonçalves Jacovine, Fabiano Luiz de Silva, Charles MacIntyre, and Elizabeth Monges Zalazar. 2012. Regulating the Sustainability of Forest Management in the Americas: Cross-Country Comparisons of Forest Legislation. *Forests* 3 (2012): 467-505; doi:10.3390/f3030467 ISSN 1999-4907. [www.mdpi.com/journal/forests](http://www.mdpi.com/journal/forests).

Cubbage, Frederick, Viola Glenn, J. Paul Mueller, Daniel Robison, Russell Myers, Jean-Marie Luginbuhl, and Ron Myers. 2012. Early tree growth, crop yields, and estimated returns for an agroforestry trial in Goldsboro, North Carolina. *Agroforestry Systems* 86 (2012):323-334. DOI 10.1007/s10457-012-9481-0.

Cubbage, Frederick, Gustavo Balmelli, Adriana Bussoni, Elke Noellemeyer, Anibal N. Pachas, Hugo Fassola, Luis Colcombet, Belén Rossner, Gregory Frey, Francis Dube, Marcio Lopes de Silva, Hayley Stevenson, James Hamilton, William Hubbard. 2012. Comparing silvopastoral systems and prospects in eight regions of the world. *Agroforestry Systems* 86 (2012):303-314. DOI 10.1007/s10457-012-9482-z.

Moore, Susan E., Frederick W. Cubbage and Celia Eicheldinger. 2012. Impacts of FSC and SFI Forest Certification in North America. *Journal of Forestry*. 114(3):79-88.

- McGinley, Kathleen, and Frederick Cabbage. 2012. Governmental forest policy for Sustainable Forest Management in Costa Rica, Guatemala, and Nicaragua: Regulation, implementation, and impact. *Journal of Sustainable Forestry*. *Journal of Sustainable Forestry* 31:355–375.
- Haynes, Jessica, Frederick Cabbage, Evan Mercer, and Erin Sills. 2012. The search for value and meaning in the cocoa supply chain in Costa Rica. *Sustainability* 4, 1466-1487; doi:10.3390/su4071466. [www.mdpi.com/journal/sustainability](http://www.mdpi.com/journal/sustainability). ISSN 2071-1050.
- Frey, Gregory E., Hugo E. Fassola, A. Nahuel Pachas, Luis Colcombet, Santiago M. Lacorte, Mitch Renkow, Oscar Pérez, and Frederick Cabbage. 2012. A Within-Farm Efficiency Comparison of Silvopasture Systems with Conventional Pasture and Forestry in Northeast Argentina. *Land Economics* 88(4):639-657.
- Frey, Gregory E. Hugo E. Fassola, A. Nahuel Pachas, Luis Colcombet, Santiago M. Lacorte, Oscar Pérez, Mitch Renkow, Sarah T. Warren, Frederick W. Cabbage. 2012. Perceptions of silvopasture systems among adopters in northeast Argentina. *Agricultural Systems* 105 (2012) 21–32.
- McGinley, Kathleen and Frederick W. Cabbage. 2011. Governmental regulation and nongovernmental certification of forest in the tropics: Policy, execution, uptake, and overlap in Costa Rica, Guatemala, and Nicaragua. *Forest Policy and Economics* 13(3):206-220.
- Cabbage, Frederick, Sadharga Koesbanda, Patricio MacDonagh, Gustavo Balmelli, Virginia Morales Olmos, Rafael Rubilar, Rafael de la Torre, Vitor Hoeflich, Mauro Murraro, Heynz Kotze, Ronalds Gonzalez, Omar Carrero, Gregory Frey, James Turner, Roger Lord, Jin Huang, Charles MacIntyre, Kathleen McGinley, Robert Abt, and Richard Phillips. 2010. Global timber investments, wood costs, regulation, and risk. *Biomass and Bioenergy* 34(2010):1667-1678.
- Cabbage, Frederick, Diana Diaz, Pablo Yapura, and Francis Dube. 2010. Impacts of forest management certification in Argentina and Chile. *Journal of Forest Policy and Economics* 12:497-504.
- Abt, Robert C., Karen L. Abt, Frederick W. Cabbage, and Jesse D. Henderson. 2010. Effect of policy-based bioenergy demand on southern timber markets: a case study of North Carolina. *Biomass and Bioenergy* 34(2010):1679-1686.
- Frey, Gregory, Evan Mercer, Frederick Cabbage, and Robert Abt. 2010. Economic potential of agroforestry and forestry in the Lower Mississippi Alluvial Valley with incentive programs and carbon payments. *Southern Journal of Applied Forestry* 34(4):176-185.
- Lopez, Juan, Rafael De la Torre, and Frederick Cabbage. 2010. Effect of land prices, transportation costs, and site productivity in timber investment returns for pine plantations in Colombia. *New Forests* 39:313-338.
- Siry, J., F. Cabbage, D. Newman, and R. Izlar. 2010. Forest ownership and management outcomes in the U.S., in global context. *International Forestry Review* 12(1):38-48.
- Abt, Robert, Frederick Cabbage, and Karen Abt. 2009. Projecting southern timber supply for multiple products by subregion. *Forest Products Journal* 59(7/8):7-16.
- Cabbage, Frederick, Patrice Harou, and Erin Sills. 2007. Policy instruments to enhance multi-functional forest management. *Forest Policy and Economics* 9:833-851.
- Cabbage, Frederick, Patricio Mac Donagh, José Sawinski Júnior, Rafael Rubilar, Pablo Donoso, Arnaldo Ferreira, Vitor Hoeflich, Virginia Morales Olmos, Gustavo Ferreira, Gustavo Balmelli, Jacek Siry, Mirta Noemi Báez, and José Alvarez. 2007. Timber investment returns for selected plantation and native forests in South America and the Southern United States. *New Forests* 33(3):237-255.

## Peer-Reviewed Book Chapters

Cubbage, Frederick, Robert Davis, Gregory Frey, Diji Chandrasekharan Behr, and Erin Sills. 2016. Financial and economic evaluation guidelines for international forestry projects. 17 p. In: Tropical Forestry Handbook. Springer Publishing. DOI 10.1007/978-3-642-41554-8\_68-2.

Cubbage, Frederick, Robert Davis, Diana Rodriguez Parades, Yoanna Kraus Elsin. 2015. Timber production cost and profit functions for community forests in Mexico. 19 p. In: Tropical Forestry Handbook. Springer Publishing. DOI 10.1007/978-3-642-41554-8\_222-2.

Toppinen, Anne, Frederick Cubbage, and Susan Moore. 2014. The Economics of forest certification and corporate social responsibility. p. 444-458. In: Forest Economics Handbook. Shashi Kant and Janaki Alavalapati, Eds. Earthscan Publishers.

Mercer, D. Evan, Gregory E. Frey, and Frederick W. Cubbage. 2014. The economics of agroforestry. p. 188-209. In: Forest Economics Handbook. Shashi Kant and Janaki Alavalapati, Eds. Earthscan Publishers.

Cubbage, Frederick, Kathleem McGinley, Steverson Moffat, Liwei Lin, and Guy Robertson. 2012. Implementation of the U.S. Legal, Institutional, and Economic Criterion and Indicators for the 2010 Montreal Process for Sustainable Forest Management. In: Sustainable Forest Management. Chapter 16, p. 287-304. InTech Press. ISBN 978-953-307-668-3.

Cashore, Benjamin, Glenn Galloway, Frederick Cubbage, David Humphreys, Pia Katila, Kelly Levin, Ahmad Maryudi, Constance McDermott, Kathleen McGinley, Sebastião Kengen, Moacir José Sales Medrado, María Cristina Puente, August B. Temu and Ederson Augusto Zanetti. 2010. Ability of Institutions to Address New Challenges. Chapter 23. In: Forests and Society – Responding to Global Drivers of Change. Editors: Gerardo Merry, Pia Katila, Glenn Galloway, Rene I. Alfaro, Markku Kanninen, Maxim Lobovikov and Jari Varjo. IUFRO World Series Volume 25. p. 441-486. CD/Hard Copy/IUFRO Web Site.

Cubbage, Frederick, Susan Moore, Thresa Henderson, and Michelle Araujo. 2009. Costs and benefits of forest certification in the Americas. In: Jeanette Pauling, Ed.: Natural Resources: Management, Economic Development and Protection. Nova Publishers. Chapter 5, p. 155-185.

## Technical Reports – World Bank

Cubbage, Frederick, Robert Davis, Gregory Frey, and Diji Chandrasekharan Behr. 2013. Financial and Economic Evaluation Guidelines for Community Forestry Projects in Latin America. PROFOR & the World Bank, Latin America and the Caribbean Region. Accessed at: <http://www.profor.info/knowledge/community-forestry-enterprise-competitiveness-and-access-markets-mexico>. 21 February 2013.

Cubbage, Frederick, Robert Davis, Diana Rodriguez Parades, Gregory Frey, Ramón Millenhauer, Yoanna Kraus Elsin, Igancio Antonio González Hernández, Humberto Albarrán Hurtado, Ana Mercedes Salazar Cruz, y Diana Nacibe Chemor Salas. 2013. Competitividad y Acceso a Mercados de Empresas Forestales Comunitarias en México. PROFOR & the World Bank, Latin America and the Caribbean Region. Accessed at: <http://www.profor.info/knowledge/community-forestry-enterprise-competitiveness-and-access-markets-mexico>. 30 June 2013.

Cubbage, Frederick W., Robert R. Davis, and Gregory E. Frey. 2011. Guía para la Evaluación Económica y Financiera de Proyectos Forestales Comunitarios en México. Documento de Trabajo, Forestal Latinoamericano, No. 2. Banco Mundial Región de Latinoamérica y el Caribe. Washington, D.C. 43 p. Accessed at: <http://www.profor.info/profor/knowledge/community-forestry-enterprise-competitiveness-and-access-markets-mexico>. 18 January 2012.