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RESEARCH INTERESTS

Land use, development effects on forestry, public forest values, open space

EDUCATION

- PhD in Environmental and Natural Resource Economics, University of Rhode Island, 1996.
Thesis: *Measuring Public Preferences to Improve the Design of Farmland Preservation Programs.*
- MS in Resource Administration and Management, University of New Hampshire, 1988.
Thesis: *Milk Supply Reduction Policy Impacts on New Hampshire's Resources and Economy.*
- BS in Environmental Resource Management, Pennsylvania State University, 1984.
- AAS in Forest Technology, Paul Smith's College, 1981.
- Westtown School, Westtown PA.

RESEARCH

- **Research Forester.** Pacific Northwest Research Station, Forestry Sciences Laboratory, USDA Forest Service, Corvallis, OR. 1997 to present.
- **Freelance Consulting.** Swallow Environmental Economics, Wyoming, RI; Summer 1996. Economic Analysis, Inc., Wakefield, RI; Summer 1995. Impact Research, Inc., Wakefield, RI; Spring/Summer 1995.
- **Research/Graduate Assistant.** Department of Environmental and Natural Resource Economics, University of Rhode Island, Kingston, RI; 1991-1995. Department of Resource Economics and Development, University of New Hampshire, Durham, NH; 1986-1988.

NATURAL RESOURCE POLICY AND MANAGEMENT

- **Conservation Specialist.** New Jersey Agricultural Stabilization and Conservation Service, United States Department of Agriculture, Bordentown, NJ. 1989-1990.
- **Agricultural Resource Specialist.** New Jersey Farmland Preservation Program, State Agricultural Development Committee, Trenton, NJ. 1988-1989.
- **Property Manager.** Natural Lands Trust, Media, PA. 1984-1986.

JOURNAL ARTICLES

- Kline, J.D., E.M. White, A.P. Fischer, M. Steen-Adams, S. Charnley, C. Olsen, T.A. Spies, and J.D. Bailey. 2017. Integrating social science into empirical models of coupled human and natural systems. *Ecology and Society* 22(1).
- Olsen, C.S., J.D. Kline, A.A. Ager, K. Olsen, and K. Short. 2017. Examining the influence of biophysical conditions on wildland–urban interface homeowners’ wildfire risk mitigation activities in fire-prone landscapes. *Ecology and Society* 22(1):21.
- Spies, T.A., E.M. White, A.A. Ager, J.D. Kline, J. Bolte, E.K. Platt, K. Olsen, R.J. Pabst, A. Barros, J.D. Bailey, S. Charnley, A.T. Morzillo, J. Koch, M.M. Steen-Adams, P. Singleton, J.M. Sulzman, C. Schwartz, and B. Csuti. 2017. Using an agent-based model to examine forest management outcomes in a fire-prone landscape in Oregon, USA. *Ecology and Society* 22 (1):25.
- Shindler, B., T.A. Spies, J. Bolte, and J.D. Kline. 2017. Integrating ecological and social knowledge: learning from CHANS research. *Ecology and Society* 22 (1):26.
- Dempsey, J.A, A.J. Plantinga, J.D. Kline, J. Lawler, S. Martinuzzi, and V. Radeloff. 2017. Local land-use planning laws concentrate development and reduce impacts on critical natural areas. *Land Use Policy* 60(1):16-25.
- Kline, J.D., M.E. Harmon, T.A. Spies, A. Morzillo, R. Pabst, B.C. McComb, F. Schneckeburger, Keith A. Olsen, Blair Csuti, J.C. Vogler. 2016. Evaluating carbon storage, timber harvest, and habitat possibilities for a western Cascades (US) forest landscape. *Ecological Applications* 26(7):2044-2059.
- Wigtil, G., R.B. Hammer, J.D. Kline, M.H. Mockrin, S.I. Stewart, D. Roper, B.S. Steel, V.C. Radeloff. 2016. Places where wildfire potential and social vulnerability coincide in the coterminous United States. *International Journal of Wildland Fire* 25(8):896–908.
- Fischer, A.P. T.A. Spies, T.A. Steelman, C. Moseley, B.R. Johnson, J.D. Bailey, A.A. Ager, P. Bourgeron, S. Charnley, B.M. Collins, J.D. Kline, J.E. Leahy, J.S. Littell, J.D.A. Millington, M. Nielsen-Pincus, C.S. Olsen, T.B. Paveglio, C.I. Roos, M.M. Steen-Adams, F.R. Stevens, J. Vukomanovic, E.M. White, D.M.J.S. Bowman. 2016. Wildfire risk as a socio-ecological pathology. *Frontiers in Ecology and the Environment* 14(5):276–284.
- Kerns, B., J. Kim, J.D. Kline, and M. Day. 2016. US exposure to multiple landscape stressors and climate change. *Regional Environmental Change* 16(7):2129-2140.
- Latta, G.S., D.M. Adams, K.B. Bell, and J.D. Kline. 2016. Evaluating land-use and private forest management responses to a potential forest carbon offset sales program in western Oregon (USA). *Forest Policy and Economics* 65:1-8.

- Lee, Y., C. Montgomery, and J.D. Kline. 2016. The influence of age-specific migration on housing growth in the rural Midwest (USA). *Landscape and Urban Planning* 148:68-79.
- Ager, A.A, J.D. Kline, and A.P. Fischer. 2015. Coupling the biophysical and social dimensions of wildfire risk to improve wildfire mitigation planning. *Risk Analysis* 35(8):1393-1406.
- Kline, J.D., P. Thiers, C. Ozawa, J.A. Yeakley, and S. Gordon. 2014. How well has land-use planning worked under different governance regimes? A case study in the Portland, OR-Vancouver, WA metropolitan area, USA. *Landscape and Urban Planning* 131:51-63.
- Spies, T., E.M. White, J.D. Kline, A.P. Fisher, A. Ager, J. Bolte, D.B. Jacobs, J. Koch, C. Olsen, E.K. Platt, B. Shindler, M. Steen-Adams. 2014. Examining fire-prone forest landscapes as coupled human and natural systems. *Ecosystems and Society* 19(3):9.
- Fischer, A.P., J.D. Kline, A.A. Ager, S. Charnley, and K. Olsen. 2014. Objective and perceived wildfire risk and its influence on private forest landowners' fuel reduction activities in Oregon's (USA) ponderosa pine region. *International Journal of Wildland Fire* 23(1):143-153.
- Kline, J.D., B.K. Kerns, M. Day, and R.B. Hammer. 2013. Mapping multiple forest threats in the northwestern US. *Journal of Forestry* 111(3):206-213.
- Kline, J.D., M.J. Mazzotta, T.A. Spies, and M.E. Harmon. 2013. Applying the ecosystem services concept to public lands management. *Agricultural and Resource Economics Review* 42(1):139-158.
- Fischer, A.P., J.D. Kline, S. Charnley, and C. Olsen. 2013. Identifying policy target groups with qualitative and quantitative methods: the case of wildfire risk on nonindustrial private forest lands. *Forest Policy and Economics* 28:69-78.
- Kline, J.D., R.S. Rosenberger, and E.M. White. 2011. A national assessment of physical activity in national forests. *Journal of Forestry* 109(6):343-351.
- Gosnell, H., J.D. Kline, G. Chrosteg, and J. Duncan. 2010. Is Oregon's Land Use Planning Program conserving forest and farm land? a review of the evidence. *Land Use Policy* 28(1):185-192.
- Kline, J.D., A. Moses, and T. Burcsu. 2010. Anticipating forest and range land development in central Oregon for landscape analysis, with an example application involving mule deer. *Environmental Management* 45(5):974-984.
- Kline, J.D., A. Moses, D.L. Azuma, and A. Gray. 2009. Evaluating satellite imagery-based land use data for describing forest land development in western Washington. *Western Journal of Applied Forestry* 24(4):214-222.

- Rosenberger, R.S., T. Bergerson, and J.D. Kline. 2009. Macro-linkages between health and outdoor recreation: the role of parks and outdoor recreation providers. *Journal of Park and Recreation Administration* 27(3):8-20.
- Kline, J.D., M.J. Mazzotta, and T.M. Patterson. 2009. Toward a rational exuberance for ecosystem services markets. *Journal of Forestry* 107(4):204-212.
- Brown, R.N., R.S. Rosenberger, J.D. Kline, T.E. Hall, M.D. Needham. 2008. Visitor preferences for managing wilderness recreation after wildland fire. *Journal of Forestry* 106(1):9-16.
- Cathcart, J.F., J.D. Kline, M. Delaney, and M. Tilton. 2007. Carbon sequestration and Oregon's land use planning program. *Journal of Forestry* 105(4):167-172.
- Kline, J.D., A. Moses, G. Lettman, and D.L. Azuma. 2007. Modeling forest and rangeland development in rural locations, with examples from eastern Oregon. *Landscape and Urban Planning* 80(3):320-332.
- Wondzell, S.M., K.M. Burnett, and J.D. Kline (eds.). 2007. Landscape analysis: projecting the effects of management and natural disturbances on forest and watershed resources of the Blue Mountains, Oregon, USA: foreword to the special issue. *Landscape and Urban Planning* 80(3):193-197.
- Johnson, K.N., P. Bettinger, J.D. Kline, T. Spies, M. Lennette, G. Lettman, B. Garber-Yonts, and T. Larsen. 2007. Simulating forest structure, timber production, and socioeconomic effects in a multi-owner province. *Ecological Applications* 17(1):34-47.
- Spies, T.A., K.N. Johnson, K.M. Burnett, J.L. Ohmann, B.C. McComb, G.H. Reeves, P. Bettinger, J.D. Kline and B. Garber-Yonts. 2007. Cumulative ecological and socio-economic effects of forest policies in coastal Oregon. *Ecological Applications* 17(1):5-17.
- Kline, J.D. 2006. Public demand for preserving local open space. *Society and Natural Resources* 19(7):645-659.
- Theobald, D.M., T. Spies, J. Kline, B. Maxwell, N.T. Hobbs, and V.H. Dale. 2005. Ecological support for rural land-use planning. *Ecological Applications* 15(6):1906-1914.
- Kline, J.D. and R.J. Alig. 2005. Forestland development and private forestry with examples from Oregon. *Forest Policy and Economics* 7(5):709-720.
- Kline, J.D. 2005. Our national concern about forestland development. *Timber West: Journal of Logging and Sawmills* 30(5-6):50.
- Kline, J.D. 2005. Forest and farmland conservation effects of Oregon's (USA) land use

planning program. *Environmental Management* 35(4):368-380.

- Kline, J.D., R.J. Alig, and B. Garber-Yonts. 2004. Forestland social values and open space preservation. *Journal of Forestry* 102(8):39-45.
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- Alig, R.J., J.D. Kline, and M. Lichtenstein. 2004. Urbanization on the U.S. landscape: looking ahead in the 21st Century. *Landscape and Urban Planning* 69(2-3):219-234.
- Kline, J.D., D.L. Azuma, and A. Moses. 2003. Modeling the spatially dynamic distribution of humans in the Oregon (USA) Coast Range. *Landscape Ecology* 18(4):347-361.
- Kline, J.D. 2003. Characterizing land use change in multidisciplinary landscape-level analyses. *Agricultural and Resource Economics Review* 32(1):103-115.
- Kline, J.D., B.J. Butler, and R.J. Alig. 2002. Tree planting in the South; what does the future hold? *Southern Journal of Applied Forestry* 26(2):99-107.
- Kline, J.D. and C. Armstrong. 2001. Autopsy of a forestry ballot initiative: characterizing voter support for Oregon's Measure 64. *Journal of Forestry* 99(5):20-27.
- Kline, J.D., A. Moses, and R.J. Alig. 2001. Integrating urbanization into landscape-level ecological assessments. *Ecosystems* 4(1):3-18.
- Kline, J.D. 2000. Comparing states with and without growth management: analysis based on indicators with policy implications, comment. *Land Use Policy* 17(4):349-355.
- Kline, J.D., R.J. Alig, and R.L. Johnson. 2000. Fostering the production of nontimber services among forest owners with heterogeneous objectives. *Forest Science* 46(2):302-311.
- Kline, J.D., R.J. Alig, and R.L. Johnson. 2000. Forest owner incentives to protect riparian habitat. *Ecological Economics* 33(1):29-43.
- Kline, J.D. and R.J. Alig. 1999. Does land use planning slow the conversion of forest and farm land? *Growth and Change* 30(1):3-22.
- Kline, J. and D. Wichelns. 1998. Public preferences regarding the goals of farmland preservation programs: reply. *Land Economics* 74(4):566-569.
- Kline, J.D. and S.K. Swallow. 1998. The demand for local access to coastal recreation in southern New England. *Coastal Management* 26(3):177-190.
- Kline, J. and D. Wichelns. 1998. Measuring heterogeneous preferences for preserving

farmland and open space. *Ecological Economics* 26(2):211-224.

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- Kline, J. and D. Wichelns. 1996. Public preferences regarding the goals of farmland preservation programs. *Land Economics* 72(4):538-549.
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- Mazzotta, M.J. and J. Kline. 1995. Environmental philosophy and the concept of nonuse value. *Land Economics* 71(2):244-249.
- Kline, J. and T.F. Weaver. 1994. Retailers' opinions about marketing manure and organic fertilizers. *American Nurseryman* 179(4):98-100.
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- Wichelns, D. and J. Kline. 1993. The impact of parcel characteristics on the cost of development rights to farmland. *Agricultural and Resource Economics Review* 22(2):150-158.

BOOK CHAPTERS

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- Kline, J.D. 2006. Keeping land in forest. In: *Forests, carbon and climate change: a synthesis of science findings*. Portland, OR: Oregon Forest Resources Institute: 93-116.

PUBLISHED CONFERENCE PROCEEDINGS

- Kline, J.D., A.A. Ager, and A.P. Fischer. 2016. A conceptual framework for coupling the biophysical and social dimensions of wildfire to improve fireshed planning and risk mitigation. 13th International Wildland Fire Safety Summit & 4th Human Dimensions of Wildland Fire Conference, proceedings. Missoula, MT: International Association of Wildland Fire. pp 204-212.
- Koch, J., J.M. Sulzman, R.J. Pabst, J.P. Bolte, T.A. Spies, T. Sheehan, K.A. Olsen, and J.D.

Kline. 2012. An agent-based modeling approach to project future habitat suitability for Northern Spotted Owl in Central Oregon. In: Seppelt, R., A.A. Voinov, S. Lange, and D. Bankamp (Eds.), 2012 International Congress on Environmental Modeling and Software Managing Resources of a Limited Planet: Pathways and Visions under Uncertainty, Sixth Biennial Meeting, Leipzig, Germany: proceedings. International Environmental Modeling and Software Society, Switzerland.

- Kline, J.D. 2008. Societal and Nonindustrial private forest landowner perspectives on ecosystem services compensation. In: Society of American Foresters national convention, 2007: sustaining America's forests (2 vols.). Red Hook, NY: Curran Associates, Inc. [pages unknown].
- Kline, J.D. 2008. Development effects on private forestry and valued public benefits. In: Society of American Foresters national convention, 2007: sustaining America's forests (2 vols.). Red Hook, NY: Curran Associates, Inc. [pages unknown].
- Kline, J.D. 2007. Development effects on private forest management: a critical look at the evidence (pp. 72-75). In: Laband, D.N. (ed.), Emerging issues along urban/rural interfaces II: linking land-use science and society, conference proceedings. Atlanta, GA: Forest Policy Center, Auburn University. 320 p.
- Kline, J.D. 2003. Private Forest Management in Urbanizing Landscapes (pp. 141-143). In: Teeter, L. (ed.), *Proceedings: Global Initiatives and Public Policies: First International Conference on Private Forestry in the 21st Century*. Atlanta, Georgia: Auburn University, School of Forestry and Wildlife Sciences. 291 p.
- Kline, J.D. 2002. Integrating Land Use Change into Landscape-level Ecological Assessments. In: Robert J. Johnston (Ed.). *Conserving Farm and Forest in a Changing Rural Landscape: Current and Potential Contributions of Economics*. Regional Rural Development Paper No. 11. Northeast Regional Center for Rural Development, Pennsylvania State University, University Park, PA. p. 6.
- Kline, J.D., B.J. Butler, and R.J. Alig. 2002. Tree Planting in the South: What Does the Future Hold? Summary. In *Proceedings: Southern Forest Economics Workers annual meeting*, March 27-28, Atlanta, Georgia.
- Alig, R.J. and J.D. Kline. 2002. Socioeconomic Factors Influencing Land Use and Management Changes in the Pacific Northwest (pp. 41-49). In: Johnson, A.C., R.W. Haynes, and R. A. Monserud (Eds.), *Congruent Management of Multiple Resources: Proceedings from the Wood Compatibility Initiative Workshop*. Gen. Tech. Rep. PNW-GTR-563. USDA Forest Service, Pacific Northwest Research Station, Portland, OR. 253 p.
- Kline, J.D., A. Moses, D.L. Azuma, and R.J. Alig. 2000. Urbanization Impacts on Private Forest Conditions in Western Oregon. In: DeCoster, Lester A. (Ed.), *Forest Fragmentation 2000: Sustaining Private Forests in the 21st Century, Proceedings*. Sampson Group, Inc.

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- Kline, J.D., F.A. Benford, and J.J. Swenson. 2000. Historic and Projected Trends in Private Forest Land in the Western U.S. In: DeCoster, Lester A. (Ed.), *Forest Fragmentation 2000: Sustaining Private Forests in the 21st Century, Proceedings*. Sampson Group, Inc. Alexandria, VA. pp. 73-79.
- Kline, J. and A. Moses. 1999. Modeling Land Use and Development for Forest and Farmland Protection. In *Keep America Growing: Balancing Working Lands and Development* (CD-ROM). Omnipress, Inc., Madison, Wisconsin.
- Kline, J. and R.J. Alig. 1997. The Impact of Oregon's Land Use Planning Program on Forest and Agricultural Land Retention: Summary. Proceedings of the *Pacific Northwest Regional Economic Conference*, April 24-26, 1997, Spokane, Washington. Posted on the World Wide Web (<http://coopext.cahe.wsu.edu/~pnrec97/proceed.htm>).
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RESEARCH REPORTS AND BULLETINS

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- Kline, J.D.; Azuma, D.L. 2007. Evaluating forest land development effects on private forestry in eastern Oregon. Res. Pap. PNW-RP-572. U.S. Portland, OR: Department of Agriculture, Forest Service, Pacific Northwest Research Station. 18 p.
- Kline, J.D. 2006. Defining an economics research program to describe and evaluate ecosystem services. Gen. Tech. Rep PNW-GTR-700. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 46 p.
- Kline, J.D. Kruger, L.E.; Mazza, R. 2005. Demographic trends in southeast Alaska. In: Mazza, R.; Kruger, L.E., eds. Social conditions and trends in southeast Alaska. Gen. Tech. Rep. PNW-GTR-653. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station: 5-43 p.
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- Kline, J.D. 2004. Analysis and modeling of forest-land development at the wildland/urban interface (pp. 153-160). In: Haynes, J.L., A.A. Agar, and R.J. Barbour, tech. eds., Methods for integrated modeling of landscape change: Interior Northwest Landscape Analysis System. Gen. Tech Rep. PNW-GTR-610. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Portland, OR. 218 p.
- Lettman, G.J. and J.D Kline. 2004. Connection to local communities (pp. 132-136). In:

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