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**LINE INTERSECT BIBLIOGRAPHY**  
**1868-PRESENT**  
**(198 ENTRIES)**

1. Misc. 1 Fattorini, L. Encounter Sampling Strategies in Environmental Studies. Conference Paper.
2. Misc. 2 Barabesi, L. and Fattorini, L. A note on planning line-intercept sampling.
3. Crofton, M. W. 1868. On the theory of local probability, applied to straight lines drawn at random in a plane; the methods used being also extended to the proof of certain new theorems in the integral calculus. *Philosophical Transactions of the Royal Society of London*. 158: 181-199.
4. Crofton, M. W. 1885. Probability. *Encyclopædia Britannica*. (9<sup>th</sup> ed., Volume XIX). Edinburgh: Adam and Charles Black. pp. 768-788.
5. Rosiwal, A. 1898. Ueber geometrische Gesteinsanalysen. Ein einfacher Weg zur ziffremassigen Foxtstellung des Quantitätsverhältnissos der Mineralbestandtheile gemengter Geneine. *Verhandlungen*, 5(6) 143-174.
6. Clements. 1905. Chapter IV. The Plant Formation. *Research Methods in Ecology*. The University Publishing Company: Lincoln, Nebraska (U.S.A).
7. Gleason, H. A. 1920. Some applications of the quadrat method. *Bulletin of the Torrey Botanical Club*, 47: 21-33.
8. Schumacher, F. X. 1932. Determination of the errors of estimate of a forest survey, with special reference to the bottom-land hardwood region. *Journal of Agricultural Research*, 45(12) 741-756.
9. Bauer, H. L. 1936. Moisture relations in the chaparral of the Santa Monica Mountains, California. *Ecological Monograph*, 6(3) 409-454.
10. Uspensky, J. V. 1937. Extension of Buffon's Problem. *Introduction to Mathematical Probability*. New York: McGraw-Hill Book Company, Inc. pp. 252-257.
11. Canfield, R. H. 1941. Application of the line interception method in sampling range vegetation. *Journal of Forestry*, 39: 388-394.
12. Hasel, A. A. 1941. Estimation of Vegetation-Type Areas by Linear Measurement. *Journal of Forestry*, 39: 34-40.
13. Horton, J. S. 1941. The sample plot as a method of quantitative analysis of chaparral vegetation in southern California. *Ecology*, 22(4) 457-468.

14. Anderson, K. L. 1942. A comparison of line transect and permanent quadrats in evaluating composition and density of pasture vegetation of the tall prairie grass type. *Journal of the American Society of Agronomy*, 34: 805-822.
15. Proudfoot, M. J. 1942. Sampling with Transverse Traverse Lines. *Journal of the American Statistical Association*, 37: 265-270.
16. Bauer, H. L. 1943. The statistical analysis of chaparral and other plant communities by means of transect samples. *Ecology*, 24: 45-60.
17. Parker, K. W. & D. A. Savage. 1944. Reliability of the line interception method in measuring vegetation on the southern Great Plains. *Journal of the American Society of Agronomy*, 36(2) 97-110.
18. Hormay, A. L. 1949. Getting better records of vegetation changes with the line interception method. *Journal of Range Management*, 67-69.
19. Canfield, R. H. (reprinted Sept. 1950) Sampling ranges by the line interception method. *Research Report No. 4, Southwestern Forest & Range Experiment Station*, 28 pp.
20. Fullman, R. L. 1953. Measurement of particle sizes in opaque bodies. *Journal of Metals*, March: 447-452.
21. Mantel, N. 1953. An extension of the Buffon needle problem. *Annals of Mathematical Statistics* 24: 674-677.
22. McIntyre, G. A. 1953. Estimation of Plant Density Using Line Transects. *Journal of Ecology*, 41: 319-330.
23. Smith, C. S. & L. Guttman. 1953. Measurement of internal boundaries in three-dimensional structures by random sectioning. *Journal of Metals*, January: 81-87.
24. Steinhaus, H. 1954. Length, shape, and area. *Colloquium Mathematicum* III: 1-13.
25. Whitman, W. C. & E. I. Siggeirsson. 1954. Comparison of line interception and point contact methods in the analysis of mixed grass range vegetation. *Ecology*, 35(4) 431-436.
26. Woodin, H. E. & A. A. Lindsey. 1954. Juniper-pinyon east of the continental divide, as analyzed by the line-strip method. *Ecology*, 35(4) 473-489.
27. Lindsey, A. A. 1955. Testing the line-strip method against full tallies in diverse forest types. *Ecology* 36(3) 485-495.
28. Kallmes, O. and H. Corte. 1960. The structure of paper I. The statistical geometry of an ideal two-dimensional fiber network. *Tappi* 43(9) 737-752. (also see Errata in 44(6) 448)

29. Cook, C. W. & T. W. Box. 1961. A comparison of the loop and point methods of analyzing vegetation. *Journal of Range Management*, 14: 22-27.
30. Johnston, A. 1961. A comparison of the line interception, vertical point quadrat, and loop methods as used in measuring basal area of grassland vegetation. *Canadian Journal of Plant Science*, 37: 34-42.
31. Kahan, B. C. 1961. A practical demonstration of a needle experiment designed to give a number of concurrent estimates of  $\pi$ . *Journal of the Royal Statistical Society, Series A* 124(2) 227-239.
32. Van Wagner, C.E. 1961. The line intersect method in forest fuel sampling. *Forest Science*, 14(1) 20-26.
33. Smith, J. G. 1962. An appraisal of the loop transect method for estimating root crown area changes. *Journal of Range Management*, 15(2) 72-78.
34. Brun, J. M. and T. W. Box. 1963. A comparison of line intercepts and random point frames for sampling desert shrub vegetation. *Journal of Range Management* 16(1) 21-25.
35. Ripley, T.H., F.M. Johnson, & W.H. Moore. 1963. A modification of the line intercept method for sampling understory vegetation. *Journal of Range Management*, 16(1) 9-11.
36. Matérn, B. 1964. A method of estimating the total length of roads by means of a line survey. *Studia Forestalia Suecica*, 18: 68-70.
37. Warren, W. G. and P. F. Olsen. 1964. A line intersect technique for assessing logging waste. *Forest Science*, 10: 267-276.
38. Moran, P. A. P. 1966. A note on recent research in geometrical probability. *Journal of Applied Probability* 3: 453-463.
39. Morton, R. R. A. 1966. The expected number and angle of intersections between random curves in a plane. *Journal of Applied Probability* 3: 559-562.
40. Newman, E.I. 1966. A method of estimating the total length of root in a sample. *Journal of Applied Ecology*, 3(1) 139-145.
41. Strong, C.W. 1966. An improved method of obtaining density from line-transect data. *Ecology*, 47(2) 311-313.
42. Ramaley, J. F. 1969. Buffon's noodle problem. *The American Mathematical Monthly* 76(8) 916-918.

43. Bailey, G. R. 1970. A Simplified Method of Sampling Logging Residue. *The Forestry Chronicle*, 46(4): 288-294.
44. Reicosky, D.C., R.J. Millington, and D.B. Peters. 1970. A comparison of three methods for estimating root length. *Agronomy Journal*, 62: 451-453.
45. Brown, J. K. 1971. A planar intersect method for sampling fuel volume and surface area. *Forest Science*, 17: 96-102.
46. Dodson, C. T. J. 1971. Spatial variability and the theory of sampling in random fibrous networks. *Journal of the Royal Statistical Society, Series B*. 33: 88-94.
47. Marsh, B. A'B. 1971. Measurement of length in random arrangements of lines. *Journal of Applied Ecology*, 8(1) 265-267.
48. Watson, G.S. 1971. Estimating functionals of particle size distributions. *Biometrika*, 58(3) 483-490.
49. Coleman, R. 1972. Sampling procedures for the lengths of random straight lines. *Biometrika* 59(2) 415-426.
50. Howard, J. O. & F. R. Ward. 1972. Measurement of logging residue - alternative applications of the line intersect method. *USDA Forest Service Research Note PNW-183*, 8 pp.
51. Becker, D.A. and J.J. Crockett. 1973. Evaluation of sampling techniques on tall-grass prairie. *Journal of Range Management*, 26(1) 61-65.
52. Chevrou, R. 1973. Invenaire des haies. *Revue Forestiere Francaise* 25(1) 47-53.
53. DeVries, P. G. 1973. A general theory on line intersect sampling. *Mededelingen Landbouwhogeschool, Wageningen, Netherlands*, 73(11).
54. DeVries, P. G. and A. C. VanEijnsbergen. 1973. Line intersect sampling over populations of arbitrarily shaped elements. *Mededelingen Landbouwhogeschool, Wageningen, Netherlands*, 73(19).
55. Beaufait, W. R., M. A. Marsden and R. A. Norum. 1974. Inventory of slash fuels using 3P subsampling. *USDA Forest Service General Technical Report INT-13*.
56. Brown, J.K. 1974. Reducing fire potential in lodgepole pine by increasing timber utilization. *USDA Forest Service Research Note INT-181*. 6p.
57. Brown, J. 1974. Handbook for inventorying downed woody material. *USDA Forest Service General Technical Report INT-16*. 24p.

58. Brown, J. K. and P. J. Roussopulos. 1974. Eliminating biases in the planar intersect method for estimating volumes of small fuels. *Forest Science*, 20: 350-356.
59. DeVries, P. G. 1974. Multistage line intersect sampling. *Forest Science*, 20: 129-133.
60. Rowse, H.R. & D.A. Phillips. 1974. An instrument for estimating the total length of root in a sample. *Journal of Applied Ecology*, 11(1) 309-314.
61. Schuerholz, G. 1974. Quantitative Evaluation of Edge from Aerial Photographs. *Journal of Wildlife Management*, 38(4) 913-920.
62. Schuster, E. F. 1974. Buffon's needle experiment. *The American Mathematical Monthly* 81(1) 26-29.
63. Hildebrandt, V. G. 1975. Die verwendung von Luftbild-linienstichproben zur ermittlung der länge linienförmiger gelandeobjekte. *Allgemeine Forst Zeitschrift* 30: 29-31.
64. Perlman, M. D. and M. J. Wichura. 1975. Sharpening Buffon's needle. *The American Statistician* 29(4) 157-163.
65. Tennant, D. 1975. A test of a modified line intersect method of estimating root length. *Journal of Applied Ecology*, 995-1001.
66. Martin, A. J. 1976. Suitability of the line intersect method for sampling hardwood logging residues. *USDA Forest Service Research Paper NE-339*.
67. Parker, P. and R. Cowan. 1976. Some properties of line segment processes. *Journal of Applied Probability* 13: 96-107.
68. Wagner, C.E.V. and Wilson, A.L. 1976. Diameter measurement in the Line intersect Method. *Forest Science*: 230 – 232.
69. Ambartzumian, R. V. 1977. Stochastic geometry from the standpoint of integral geometry. *Advances in Applied Probability* 9: 792-823.
70. Baddeley, A. 1977. A fourth note on recent research in geometrical probability. *Advances in Applied Probability* 9: 824-860.
71. Davy, P. & R.E. Miles. 1977. Sampling theory for opaque specimens. *Journal of the Royal Statistical Society, Series B*, 39(1) 56-65.
72. Lucas, A. and G. A. F. Seber. 1977. Estimating particle coverage and particle density using the line intercept methods. *Biometrika*, 64: 618-622.
73. Sloneker, L.L. and W.C. Moldenhauer. 1977. Measuring the amounts of crop residue remaining after tillage. *Journal of Soil and Water Conservation*, 32(5) 231-236.

74. Watson, G. S. 1977. Characteristic statistical problems of stochastic geometry. In: *Geometrical Probability and Biological Structures: Buffon's 200<sup>th</sup> Anniversary* (R. E. Miles and J. Serra, eds.) Springer-Verlag Lecture Notes in Biomathematics 23.
75. Eberhardt, L. L. 1978. Transect Methods for Population Studies. *Journal of Wildlife Management*. 42(1) 1978.
76. Hanley, T. A. 1978. A comparison of the line-interception and quadrat estimation methods of determining shrub canopy coverage. *Journal of Range Management* 31(1)60-62.
77. Jessen, R. J. 1978. *Statistical Survey Techniques*. New York: Wiley. 515 pp. (brief LIS section on pages 433-434).
78. Meeuwig, R. O., E. L. Miller and J. D. Budy. 1978. Estimating pinyon-juniper cordwood with the line-intersect method. *USDA Forest Service Research Note INT-242*. 8p.
79. Pickford, S.G. and J. W. Hazard. 1978. Simulation studies on line intersect sampling of forest residue. *Forest Science*, 24: 469-483.
80. Solomon, H. 1978. *Geometric Probability*. Society for Industrial and Applied Mathematics: Philadelphia
81. DeVries, P.G. 1979. Generalization of the Hayne-type estimator as an application of line intersect sampling. *Biometrics*, 35: 743-748.
82. DeVries, P. G. 1979. Line intersect sampling statistical theory, applications, and suggestions for extended use in ecological inventory. In: *Sampling from biological populations* (R. M. Cormack, G. P. Patil & D. S. Robsen, eds.) p. 1-70.
83. Gates, C. E. 1979. Line transect and related issues. In: *Sampling from biological populations* (R. M. Cormack, G. P. Patil and D. S. Robsen, eds.) p. 71-154.
84. Hazard, J. W. and S. G. Pickford. 1979. Line intersect sampling of forest residue. In: *Contemporary quantitative ecology and related ecometrics* (G. P. Patil and M. Rosenzweig, eds.), pp. 493-503.
85. Seber, G. A. F. 1979. Transects of random lengths. In: *Sampling biological populations* (R. M. Cormack, G. P. Patil and D. S. Robsen, eds.) pp. 183-192.
86. Seber, G.A.F. and J.R. Pemberton. 1979. The line intercept method for studying plant cuticles from rumen and fecal samples. *Journal of Wildlife Management*, 43(4) 916-925.
87. McDonald, L. L. 1980. Line-intercept sampling for attributes other than coverage and density. *Journal of Wildlife Management*, 44: 530-533.

88. Howard, J. O. 1981. Ratios for Estimating Logging Residue in the Pacific Northwest. *Pacific Northwest Forest and Range Experiment Station, Research Paper PNW-288*. 26p.
89. Kimura, D. K. and N. A. Lemberg. 1981. Variability of line intercept density estimates (A simulation study of the variance of hydracoustic biomass estimates). *Canadian Journal of Fisheries and Aquatic Sciences* 38: 1141-1152.
90. Meeuwig, R.O. and J.D. Budy. 1981. Point & line-intersect sampling in pinyon-juniper woodlands. *USDA Forest Service, General Technical Report INT-104*. 38p.
91. Baddeley, A. 1982. Stochastic geometry: an introduction and reading-list. *International Statistical Review* 50: 179-193.
92. Van Wagner, C. E. 1982. Practical aspects of the line intersect method. *Canadian Forest Service Information Report PI-X-12*.
93. Butler, S. A. and L. L. McDonald. 1983. Unbiased Systematic Sampling Plans for the Line Intercept Method. *Journal of Range Management*, 36(4) 463-468.
94. Kaiser, L. 1983. Unbiased estimation in line-intercept sampling. *Biometrics*, 39: 965-976.
95. Brooks, R.T. and K.J. Sykes. 1984. Sampling land use edge from aerial photographs—line transect vs. circular pattern. *USDA Forest Service, Research Note NE-321*.
96. Sterio, D.C. 1984. The Unbiased estimation of number and sizes of arbitrary particles using the dissector. *Journal of Microscopy* 134(2): 127 – 136.
97. Pielou, E. C. 1985. Line intercept sampling. *In: Encyclopedia of Statistical Sciences* (S. Kotz and N. L. Johnson, eds.). Wiley: New York, pp. 70-74.
98. Gillison, A.N. & Brewer, K.R.W. 1985. The use of gradient directed transects or gradsects in natural resource surveys. *Journal of Environmental Management*, 20: 103-127.
99. Hansen, M. H. 1985. Line Intersect Sampling of Wooded Strips. *Forest Science*, 31(2) 282-288.
100. Howard, J.O. and D.J. DeMars. 1985. Comparison of Logging Residue from Lump Sum and Log Scale Timber Sales. *USDA Forest Service, Research Paper PNW-337*. 8p.
101. Runkle, J. 1985. Comparison of Methods for Determining Fraction of Land Area in Treefall Gaps. *Forest Science*, 31(1) 15-19.

102. Baddeley, A. J., H. J. G. Gundersen, and L. M. Cruz-Orive. 1986. Estimation of surface area from vertical sections. *Journal of Microscopy* 142: 259-276.
103. Hazard, J. W. and S. G. Pickford. 1986. Simulation studies on line intersect sampling of forest residue. Part II. *Forest Science*, 32: 447-470.
104. Floyd, D.A. and J.E. Anderson. 1987. A comparison of three methods for estimating plant cover. *Journal of Ecology*, 75: 221-228.
105. Gundersen, H.J.G. and Jensen, E.B. 1987. The Efficiency of systematic sampling in stereology and its prediction. *Journal of Microscopy* 147 (3): 229 – 263.
106. Safranyik, L. and D. A. Linton. 1987. Line intersect sampling for the density and bark area of logging residue susceptible to the spruce beetle, *Dendroctonus rufipennis* (Kirby). *Canadian Forestry Service Information Report BC-X-295*, Pacific Forestry Centre.
107. Delisle, G. P., P. M. Woodard, S. J. Titus & A. F. Johnson. 1988. Sample size and variability of fuel weight estimates in natural stands of lodgepole pine. *Canadian Journal of Forest Research*, 18: 649-652.
108. Pierson, B.J., C.E. Lewis, & C.A. Birklid. 1988. Observer differences in determining crop residue cover in the Alaskan subarctic. *Journal of Soil and Water Conservation*, Nov/Dec: 493-495.
109. Howard, J.O. 1989. Logging Residue in Southeast Alaska. *USDA Forest Service, Research Paper PNW-RP-405*. 36p.
110. Matérn, B. 1989. Precision of area estimation: a numerical study. *Journal of Microscopy* 153(3) 269-284.
111. O'Brien, R.A. 1989. Comparison of overstory canopy cover estimates on forest survey plots. *USDA Forest Service, Research Paper INT-417*. 5p.
112. Skidmore, A.K. and B.J. Turner. 1989. Assessing the accuracy of resource inventory maps. *Global Natural Resource Monitoring & Assessments: Preparing for the 21<sup>st</sup> Century*, Proceedings of the International Conference & Workshop, Vol. 2.
113. Skidmore, A.K. and B.J. Turner. 1990. Vector map accuracy assessment using line intersect sampling. (source unknown) 10 pp.
114. Becker, E.F. 1991. A Terrestrial Furbearer estimator based on probability sampling. *The Journal of Wildlife Management* 55(4): 730 – 737.
115. Warren, W. G. 1990. Line intersect sampling. an historical perspective. In: *State-of-the-art methodology of forest inventories: A symposium proceedings* (V. J. LaBau and T. Cunia, eds.). *USDA Forest Service General Technical Report PNW-GTR-263*, pp. 33-38.



116. Catchpole, W. R. and E. A. Catchpole. 1991. Estimating biomass in a vegetation mosaic using double sampling with regression. *Australian Journal of Statistics*, 33: 297-289.
117. Jensen, E.B.V. 1991. Recent Developments in the Stereological Analysis of Particles. *Annal of the Institute of Statistical Mathematics* 43(3): 455 – 468.
118. Skidmore, A. K. and B. J. Turner. 1991. A measure of vector map accuracy. *Proceedings of the Symposium on Spatial Database Accuracy* (G. J. Hunter, ed.). Melbourne, 19-20 June 1991, pp. 161-173.
119. Fox, B. E. and P. E. Raskob. 1992. Comparing the efficiency of three inventory sampling methods to determine timber volumes in pinyon-juniper woodlands. *Western Journal of Applied Forestry*, 7: 110-113.
120. Gundersen, H. J. G. 1992. Stereology: the fast lane between neuroanatomy and brain function- or still only a tightrope? *Acta Neurol Scandinavian Suppl* 137:8-13.
121. Muttlak, H. A. and L. L. McDonald. 1992. Ranked Set Sampling and the Line Intercept Method: A More Efficient Procedure. *Biometrical Journal*, 34(3) 329-346.
122. Runkle, J.R. 1992. Guidelines and sampling protocol for sampling forest gaps. *USDA Forest Service General Technical Report PNW-GTR-283*. 44p.
123. Skidmore, A. K. and B. J. Turner. 1992. Map Accuracy Assessment Using Line Intersect Sampling.) *Photogrammetric Engineering and Remote Sensing*, 58(10) 1453-1457.
124. Thompson, S. K. 1992. *Sampling*. John Wiley & Sons, NY.
125. Willers, J., S. Yatham, M. Williams, and D. Akins. 1992. Utilization of the Line Intercept Method to Estimate the Coverage, Density and Average Length of Skips in Cotton and Other Field Crops. In: *Applied Statistics in Agriculture* (G. A. Milliken and J. R. Schwenke, eds.) p. 48-59.
126. Andrianarivo, J. 1993. Using GIS to evaluate the crown-line intersect sampling method in forest surveys. *Forest Ecology and Management*, 59: 87-103.
127. Catchpole, W. R. and E. A. Catchpole. 1993. Stratified Double Sampling of Patchy Vegetation to Estimate Biomass. *Biometrics*, 49: 295-303.
128. Muttlak, H. A. and Sadooghi-Alvandi, S. M. 1993. A note on the line intercept sampling method. *Biometrics* 49: 1209-1215.

129. Gregoire, T. G. and N. S. Monkevich. 1994. The reflection method of line intercept sampling to eliminate boundary bias. *Environmental and Ecological Statistics*, 1: 219-226.
130. Kleinn, C. 1994. Comparison of the performance of line sampling to other forms of cluster sampling. *Forest Ecology and Management* 68(2-3) 365-373.
131. Mitchell, J.E., W.W. Brady, and C.D. Bonham. 1994. Robustness of the Point-Line Method for Monitoring Basal Cover. *USDA Forest Service Research Note RM-528*. 6p.
132. Battles, J.J., J.G. Dushoff, and T.J. Fahey. 1996. Line intercept sampling of forest canopy gaps. *Forest Science*, 42(2) 131-138.
133. Bell, G., A. Kerr, D. McNickle, and R. Woollons. 1996. Accuracy of the line intersect method of post-logging sampling under orientation bias. *Forest Ecology and Management* 84: 23-28.
134. Harmon, M. E. and J. Sexton. 1996 Guidelines for measurements of woody detritus. Publication No. 20, U. S. LTER Network Office.  
[www.lternet.edu/documents/Publications/woodydetritus/woodydetritus.pdf](http://www.lternet.edu/documents/Publications/woodydetritus/woodydetritus.pdf)
135. Barabesi, L. and L. Fattorini. 1997. Line intercept sampling with finite populations: a stereological approach. *Metron*, LV(1-2) 37 pp.
136. Lee, P.C., S. Crites, M. Nietfield, H. Van Nguyen, and J.B. Stelfox. 1997. Characteristics and origins of deadwood material in aspen-dominated boreal forests. *Ecological Applications*, 7(2) 691-701.
137. Ståhl, G. 1997. Transect relascope sampling for assessing coarse woody debris: the case of a  $\pi/2$  relascope angle. *Scandinavian Journal of Forest Research*, 12: 375-381.
138. Taylor, S. W. 1997. A field estimation procedure for downed coarse woody debris. Pacific Forestry Centre, Forestry Research Applications, Technology Transfer Note No. 2. 4 p.
139. Barabesi, L. and L. Fattorini. 1998. The use of replicated plot, line, and point sampling for estimating species abundance and ecological diversity. *Environmental and Ecological Statistics*, 5: 353-370.
140. Pontius, J.S. 1998. Estimation of the mean in line intercept sampling. *Environmental and Ecological Statistics*, 5: 371-379.
141. Ståhl, G. 1998. Transect relascope sampling—a method for the quantification of coarse woody debris. *Forest Science*, 44(1) 58-63.

142. Gove, J.H., A. Ringvall, G. Ståhl, and M.J. Ducey. 1999. Point relascope sampling of downed coarse woody debris. *Canadian Journal of Forest Research*, 29: 1718-1726.
143. Inoue, A. 1999. Estimation of Crown Closure through Line Sampling. *Journal of Forest Planning*, 5: 35-37.
144. Nielsen, J. 1999. Stereology – Statistical theory and applications in agricultural sciences. Pd. D. thesis, Department of Theoretical Statistics, Faculty of Science, University of Aarhus, Denmark.
145. Nielsen, J. 1999. On the use of stereological methods in the agricultural sciences. Technical Report 13, Biometry Research Unit, Danish Institute of Agricultural Sciences, Denmark
146. Ringvall, A. and G. Ståhl. 1999. On the field performance of transect relascope sampling for assessing downed coarse woody debris. *Scandinavian Journal of Forest Research*, 14: 552-557.
147. Ringvall, A. and G. Ståhl. 1999. Field aspects of line intersect sampling for assessing coarse woody debris. *Forest Ecology and Management*, 119: 163-170.
148. Walpole, M.J. and I.R. Sheldon. 1999. Sampling butterflies in tropical rainforest: an evaluation of a transect walk method. *Biological Conservation*, 87: 85-91.
149. Marshall, P.L., G. Davis, and V.M. LeMay. 2000. Using line intersect sampling for coarse woody debris. *Forest Research, Technical Report 003, Ecology*. 34 pp.
150. Safranyik, L. and D. A. Linton. 2000. Using line intersect sampling to predict spruce beetle populations in logging residue. Pacific Forestry Centre, Forestry Research Applications, Technology Transfer Note No. 23. 4 p.
151. Ståhl, G., A. Ringvall, and T. Lämås. 2000. Guided transect sampling for assessing sparse populations. *Forest Science*, 46(1) 108-115.
152. Gove, J.H., M.J. Ducey, and H.T. Valentine. 2001. Multistage point relascope and randomized branch sampling for downed coarse woody debris estimation. *Forest Ecology & Management*, 5605: 1-10.
153. Gove, J.H., M.J. Ducey, G. Ståhl, and A. Ringvall. 2001. Point relascope sampling: a new way to assess downed coarse woody debris. *Journal of Forestry*, 99(4) 4-11.
154. Kuehl, R.O., M.P. McClaran, and J. Van Zee. 2001. Detecting fragmentation of cover in desert grasslands using line intercept. *Journal of Range Management*, 54: 61-66.
155. Ståhl, G., A. Ringvall, and J. Fridman. 2001. Assessment of coarse woody debris—a methodological overview. *Ecological Bulletin*, 49: 57-70.

156. Bate, L.J., T.R. Torgersen, E.O. Garton, and M.J. Wisdom. 2002. Accuracy & efficiency of methods to sample logs for wildlife research & management. *USDA Forest Service General Technical Report PSW-GTR-181*.
157. Bebbler, D. P. and S. C. Thomas. 2002. Prism sweeps for coarse woody debris. *Canadian Journal of Forest Research* 33: 1737-1743.
158. Chojnacky, D.C. and L.S. Heath. 2002. Estimating down deadwood from FIA forest inventory variables in Maine. *Environmental Pollution*, 116: S25-S30.
159. Nemeč, A. F. L. and Gerry Davis. 2002. Efficiency of six line intersect sampling designs for estimating volume and density of coarse woody debris. Forest Research Technical Report TR-021, British Columbia Forest Service.
160. Ståhl, G., A. Ringvall, J.H. Gove, and M.J. Ducey. 2002. Correction for slope in point and transect relascope sampling of downed coarse woody debris. *Forest Science*, 48(1) 85-92.
161. Ringvall, A., G. Ståhl, and T. Lämås. 2002. The effect of positional errors on the accuracy of estimates in guided transect sampling. *Forest Science*, 48(1) 101-110.
162. Todinov, M. T. 2002. Distribution of properties from sampling inhomogeneous materials by line transects. *Probabilistic Engineering Mechanics* 1: 131-141
163. Waddell, K.L. 2002. Sampling coarse woody-debris for multiple attributes in extensive resource inventories. *Ecological Indicators*, 1: 139-153.
164. Bebbler, D.P. and Thomas, S.C. 2003. Prism sweeps for coarse woody debris. *Canadian Journal of Forest Research*, 33: 1737-1743.
165. Corona, P., G. Chirici, and D. Travaglini. 2003. Forest ecotone survey by line intersect sampling. (unpublished manuscript).
166. Gregoire, T.G. and H.T. Valentine. 2003. Line intersect sampling: ell-shaped transects and multiple intersections. *Environmental and Ecological Statistics*, 10: 263-279.
167. Marshall, P. L., G. Davis, and S. W. Taylor. 2003. Forest Research Extension Note EN-012, British Columbia Forest Service.  
<http://www.for.gov.bc.ca/rco/research/vanpublicat.htm>
168. Williams, M.S. and J.H. Gove. 2003. Perpendicular distance sampling: an alternative method for sampling downed coarse woody debris. *Canadian Journal of Forest Research*, 33: 1564-1579.

169. Anonymous. 2004. Is it true that ... Line transects must be randomly oriented. Inventory and Cruising Newsletter, Issue No. 31.
170. Corona, P., Chirici, G. and Travaglini, D. 2004. Forest ecotone survey by line intersects sampling. *Canadian Journal of Forest Research*, 34: 1776-1783.
171. Densmore, N., J. Parminter, and V. Stevens. 2004. Coarse woody debris: inventory, decay modeling, and management implications in three biogeoclimatic zones. *BC Journal of Ecosystems and Management* 5(2): 14-29.
172. Gregoire, T. G., D. L. R. Affleck, and H. T. Valentine. 2004. Conditioning inference on line orientation in line intersect sampling. Presentation at the SamNordisk Skogsforskning, Inventory Working Group meeting, Sjusjøen, Norway. 6-8 September 2004.
173. Jordan, G. J., Ducey, M. J. and Gove, J. H. 2004. Comparing line-transect, fixed area, and point relascope sampling for dead and downed coarse woody material in a managed northern hardwood forest. *Canadian Journal of Forest Research* 34: 1766-1775
174. Williams, M and C. Woodall. 2004. Restating the assumptions for line intersect sampling in conjunction with model-based inference. (unpublished manuscript, later submitted to EES).
175. Woldenorp, G., R. J. Keenan, S. Barry, and R. D. Spencer. 2004. Analysis of sampling methods for coarse woody debris. *Forest Ecology and Management* 198: 133-148.
176. Affleck, D. L. R., Gregoire, T. G. and H. T. Valentine. 2005. Design unbiased estimation in line intersect sampling using segmented transects. *Environmental and Ecological Statistics*. 12(2): 139 – 154.
177. Affleck, D. L. R., T. G. Gregoire, and H. T. Valentine. 2005. Edge effects in line intersect sampling. *Journal of Agricultural, Biological, and Environmental Statistics* 10(4)460-477.
178. Gove, J.H., Williams, M.S., Ståhl, G. and Ducey, M.J. 2005. Critical point relascope sampling for unbiased volume estimation of downed coarse woody debris. *Forestry* 78(4): 417-431.
179. Woodall, C. and Williams, S. W. 2005. Sampling protocol, estimation, and analysis procedures for the down woody materials indicator of the FIA Program. Gen.Tech.Rep.NC-256. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Research Station. 47p.
180. Williams, M. S., Ducey, M. J. and Gove, J. H. 2005. Assessing surface area of coarse woody debris with line intersect and perpendicular distance sampling. *Canadian Journal of Forest Research* 35:949-960.

181. Cruz – Orive, L.M. 2006. A general variance predictor for Cavalieri slices. *Journal of Microscopy* 222: 158 – 165.
182. Ducey, M.J., Williams, M.S., Roberge, S., Kenning, R.S. and Gove, J.H. 2006. Distance limited perpendicular distance sampling for coarse woody material: theory and field results. Preprint article.
183. Esseen, P.-A., Jansson, K.U. and Nilsson, M. 2006. Forest edge quantification by line intersects sampling in aerial photographs. *Forest Ecology and Management* 230: 32-42.
184. Frappier, B. and Ducey, M.J. 2006. Line-intercept laboratory subsampling estimates periphyton biovolumes more efficiently than standard methods. *Journal of Applied Ecology* 43: 1040-1048.
185. Garcia – Finana, M. 2006. Confidence intervals in Cavalieri sampling. *Journal of Microscopy* 222: 146 – 157.
186. Grushecky, S. T., McGill, D. W and Andersen, R. B. 2006. Inventory of wood residues in southern West Virginia. *Northern Journal of Applied Forestry* 23(1): 47-52.
187. Korhonen, L., Korhonen, K. T., Rautiainen, M. and Stenberg, P. 2006. Estimation of forest canopy cover: a comparison of field measurement techniques. *Silva Fennica* 40(4): 577-588.
188. Monleon, V.J. 2006. Design unbiased estimation in line intersect sampling using segmented transects. Preprint article.
189. Woodall, C., Rondeux, J., Verkerk, H., and Stahl, G. In Press. Estimating dead wood during national forest inventories: A review of inventory methodologies and suggestions for harmonization. *Pages x to x in Proceedings of the Eighth Annual Forest Inventory and Analysis Symposium. McRoberts, R. E. et al. eds. 2006. October 16-19; Monterey, C. A. Gen. Tech. Rep. WO-xx. Washington, D. C.: U.S. Department of Agriculture, Forest Service. xxx p.*
190. Barabesi, L.2007. Some comments on design-based line-intersect sampling with segmented transects. *Environment Ecological Statistics* 14:483-494.
191. Affleck, D. L R. 2008. A line intersect distance sampling strategy for downed wood inventory. *Canadian Journal of Forest Research* 38: 2262-2273.
192. Affleck, D. L. R. 2008. Field results for line intersect distance sampling of coarse woody debris. In: McWilliams, Will; Moisen, Gretchen; Czaplewski, Ray, comps. 2008. 2008 Forest Inventory and Analysis (FIA) Symposium; October 21-23, 2008.

193. Barabesi, L. and M. Marcheselli. 2008. Improved strategies for coverage estimation by using replicated line-intercept sampling. *Environmental and Ecological Statistics*. 15:215-239.
194. Ducey, M. J., Williams, M. S., Gove, J. H. and Valentine. 2008. Simultaneous unbiased estimates of multiple downed wood attributes in perpendicular distance sampling. *Canadian Journal of Forest Research* 38:2044-2051.
195. Affleck, D. L.R 2009. On the efficiency of line intersect distance sampling. Draft copy
196. Pawlas, Z., Nyengaard, J. R. and Jensen, E. B. V. 2009. Particle sizes from sectional data. *Biometrics* 65: 216-224.
197. Voss, F. and Cruz-Orive. 2009. Second moment formulae for geometric sampling with test probes. *Statistics* 43(4): 329-365.
198. Van Duesen, P. C. and Gove, J. H. 2010. Sampling coarse woody debris along spoked transects. *Forestry* 6pp.
199. Gove, J. H. and Van Duesen. 2011. On fixed-area plot sampling for downed coarse woody debris. *Forestry* 84(2): 110-117.
200. Kleinn, C., Kandler, G. and Schnell, S. 2011. Estimating forest edge length from forest inventory sample data. *Canadian Journal of Forest Research* 41: 1-10.
201. Ramezani, H. and Holm, S. (2011) Sample based estimation of landscape metrics: accuracy of line intersect sampling for estimating edge density and Shannon's diversity index. *Environmental and Ecological Statistics* 18: 109 – 130.
202. Cruz-Orive, L.M. (2012) Variance predictors for isotropic geometric sampling with applications in forestry. *Statistical Methods and Applications* 22(1): 3-31.