

Harold E Burkhart

List of Publications by Year in descending order

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127
papers

3,100
citations

172457

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h-index

254184

43
g-index

130
all docs

130
docs citations

130
times ranked

1772
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling Forest Trees and Stands. , 2012, , .		367
2	A comparison of competition measures for predicting growth of loblolly pine trees. Canadian Journal of Forest Research, 1986, 16, 1230-1237.	1.7	177
3	Cubic-Foot Volume of Loblolly Pine to Any Merchantable Top Limit. Southern Journal of Applied Forestry, 1977, 1, 7-9.	0.3	83
4	Regional mixed-effects heightâ€“diameter models for loblolly pine (Pinus taeda L.) plantations. European Journal of Forest Research, 2007, 126, 253-262.	2.5	76
5	Modeling dominant height growth of radiata pine (Pinus radiata D. Don) plantations in north-western Spain. Forest Ecology and Management, 2005, 215, 271-284.	3.2	71
6	Top height definition and its effect on site index determination in thinned and unthinned loblolly pine plantations. Forest Ecology and Management, 2002, 168, 163-175.	3.2	68
7	Predicting site index of plantation loblolly pine from biophysical variables. Forest Ecology and Management, 2014, 326, 142-156.	3.2	66
8	Volume and Taper Equations for Thinned and Unthinned Loblolly Pine Trees in Cutover, Site-Prepared Plantations. Southern Journal of Applied Forestry, 1997, 21, 146-152.	0.3	56
9	Local and general above-stump biomass functions for loblolly pine and slash pine trees. Forest Ecology and Management, 2014, 334, 254-276.	3.2	55
10	Relationships between tree crown, stem, and stand characteristics in unthinned loblolly pine plantations. Canadian Journal of Forest Research, 1987, 17, 534-538.	1.7	53
11	Compatible crown ratio and crown height models. Canadian Journal of Forest Research, 1987, 17, 572-574.	1.7	52
12	Yield Relationships in Unthinned Loblolly Pine Plantations on Cutover, Site-Prepared Lands. Southern Journal of Applied Forestry, 1985, 9, 84-91.	0.3	47
13	An integrated system of forest stand models. Forest Ecology and Management, 1988, 23, 159-177.	3.2	47
14	Population density influences assessment and application of site index. Canadian Journal of Forest Research, 2000, 30, 1472-1475.	1.7	47
15	The Influence of Thinning on Tree Height and Diameter Relationships in Loblolly Pine Plantations. Southern Journal of Applied Forestry, 1997, 21, 199-205.	0.3	44
16	An application of mixed effects analysis to modeling thinning effects on stem profile of loblolly pine. Forest Ecology and Management, 1998, 103, 87-101.	3.2	44
17	Conditioning a distance-dependent competition index to indicate the onset of inter-tree competition. Forest Ecology and Management, 2003, 175, 17-30.	3.2	44
18	Modeling production and decay of coarse woody debris in loblolly pine plantations. Forest Ecology and Management, 2009, 257, 790-799.	3.2	43

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19	Modeling the impact of thinning on height development of dominant and codominant loblolly pine trees. <i>Annals of Forest Science</i> , 2006, 63, 349-354.	2.0	42
20	Modeling the Effect of Density on the Growth of Loblolly Pine Trees. <i>Southern Journal of Applied Forestry</i> , 2002, 26, 124-133.	0.3	41
21	Equations for Predicting Green Weight of Loblolly Pine Trees in the South. <i>Southern Journal of Applied Forestry</i> , 2003, 27, 153-159.	0.3	41
22	Modeling the diameter and locational distribution of branches within the crowns of loblolly pine trees in unthinned plantations. <i>Canadian Journal of Forest Research</i> , 1994, 24, 2362-2376.	1.7	39
23	Modeling tree growth in fertilized midrotation loblolly pine plantations. <i>Forest Ecology and Management</i> , 1998, 107, 213-229.	3.2	39
24	Leveraging 35 years of <i>Pinus taeda</i> research in the southeastern US to constrain forest carbon cycle predictions: regional data assimilation using ecosystem experiments. <i>Biogeosciences</i> , 2017, 14, 3525-3547.	3.3	36
25	Allocating inventory resources for multiple-use planning. <i>Canadian Journal of Forest Research</i> , 1978, 8, 100-110.	1.7	35
26	Tree-level growth and survival following commercial thinning of four major softwood species in North America. <i>Forest Ecology and Management</i> , 2018, 427, 355-364.	3.2	35
27	Eucalyptus growth and yield system: Linking individual-tree and stand-level growth models in clonal Eucalypt plantations in Brazil. <i>Forest Ecology and Management</i> , 2019, 432, 1-16.	3.2	35
28	Variable-form stem profile models for loblolly pine. <i>Canadian Journal of Forest Research</i> , 1986, 16, 109-114.	1.7	34
29	A comparison of methods for edge-bias compensation. <i>Canadian Journal of Forest Research</i> , 1998, 28, 942-945.	1.7	34
30	Does commercial thinning improve stand-level growth of the three most commercially important softwood forest types in North America?. <i>Forest Ecology and Management</i> , 2018, 409, 683-693.	3.2	34
31	Comparison of maximum size-density relationships based on alternate stand attributes for predicting tree numbers and stand growth. <i>Forest Ecology and Management</i> , 2013, 289, 404-408.	3.2	33
32	Cubic-Foot Volume of Loblolly Pine to Any Height Limit. <i>Southern Journal of Applied Forestry</i> , 1980, 4, 166-168.	0.3	31
33	Projecting Crown Measures for Loblolly Pine Trees Using a Generalized Thinning Response Function. <i>Forest Science</i> , 1995, 41, 43-53.	1.0	30
34	Modeling individual tree growth for juvenile loblolly pine plantations. <i>Forest Ecology and Management</i> , 1996, 89, 157-172.	3.2	30
35	Comparing strategies for modeling tree diameter percentiles from remeasured plots. <i>Environmetrics</i> , 2008, 19, 529-548.	1.4	30
36	Impact of Heavy Glaze in a Loblolly Pine Spacing Trial. <i>Southern Journal of Applied Forestry</i> , 1996, 20, 151-155.	0.3	29

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37	A biologically-consistent stand growth model for loblolly pine in the Piedmont physiographic region, USA. <i>Forest Ecology and Management</i> , 2011, 262, 2035-2041.	3.2	29
38	Rotation-Age Results from a Loblolly Pine Spacing Trial. <i>Southern Journal of Applied Forestry</i> , 2012, 36, 11-18.	0.3	29
39	Site Index Curves for Loblolly Pine Plantations on Cutover Site-Prepared Lands. <i>Southern Journal of Applied Forestry</i> , 1985, 9, 166-169.	0.3	28
40	On the Use of Upper Stem Diameters to Localize a Segmented Taper Equation to New Trees. <i>Forest Science</i> , 2015, 61, 411-423.	1.0	28
41	Modeling survival of loblolly pine trees in thinned and unthinned plantations. <i>Canadian Journal of Forest Research</i> , 1992, 22, 1878-1882.	1.7	27
42	Diameter Increment and Survival Equations for Loblolly Pine Trees Growing in Thinned and Unthinned Plantations on Cutover, Site-Prepared Lands. <i>Southern Journal of Applied Forestry</i> , 1989, 13, 170-174.	0.3	26
43	Incorporating rainfall data to better plan eucalyptus clones deployment in eastern Brazil. <i>Forest Ecology and Management</i> , 2017, 391, 145-153.	3.2	26
44	Cubic-Foot Volume Equations for Loblolly Pine Trees in Cutover, Site-Prepared Plantations. <i>Southern Journal of Applied Forestry</i> , 1987, 11, 190-192.	0.3	25
45	Modeling survival in juvenile and mature loblolly pine plantations. <i>Forest Ecology and Management</i> , 1997, 90, 51-58.	3.2	25
46	Post-thinning density and fertilization affect <i>Pinus taeda</i> stand and individual tree growth. <i>Forest Ecology and Management</i> , 2017, 396, 207-216.	3.2	25
47	A framework for modeling the dynamics of first-order branches and spatial distribution of knots in loblolly pine trees. <i>Canadian Journal of Forest Research</i> , 2009, 39, 566-579.	1.7	24
48	A stand-level multispecies growth model for Appalachian hardwoods. <i>Canadian Journal of Forest Research</i> , 1989, 19, 405-412.	1.7	23
49	Spacing rectangularity effect on the growth of loblolly pine plantations. <i>Canadian Journal of Forest Research</i> , 2002, 32, 1451-1459.	1.7	22
50	General response functions to silvicultural treatments in loblolly pine plantations. <i>Canadian Journal of Forest Research</i> , 2015, 45, 252-265.	1.7	22
51	Modeling dominant height growth of eucalyptus plantations with parameters conditioned to climatic variations. <i>Forest Ecology and Management</i> , 2016, 380, 182-195.	3.2	22
52	Modeling whole-stand survival in clonal eucalypt stands in Brazil as a function of water availability. <i>Forest Ecology and Management</i> , 2019, 432, 1002-1012.	3.2	19
53	A Comparison of Loblolly Pine Plantation Growth and Yield Models for Inventory Updating. <i>Southern Journal of Applied Forestry</i> , 1996, 20, 15-22.	0.3	18
54	Predicting survival and growth rates for individual loblolly pine trees from light capture estimates. <i>Canadian Journal of Forest Research</i> , 2002, 32, 1970-1983.	1.7	18

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55	Juvenile diameter distributions of loblolly pine characterized by the two-parameter Weibull function. <i>New Forests</i> , 2005, 29, 233-244.	1.7	18
56	The Effect of Physiographic Region and Geographic Locale on Predicting the Dominant Height and Basal Area of Loblolly Pine Plantations. <i>Southern Journal of Applied Forestry</i> , 2006, 30, 147-153.	0.3	18
57	Biomass partitioning in a miniature-scale loblolly pine spacing trial. <i>Canadian Journal of Forest Research</i> , 2009, 39, 320-329.	1.7	18
58	An examination of spacing indices for <i>Eucalyptus grandis</i> . <i>Canadian Journal of Forest Research</i> , 1990, 20, 1909-1916.	1.7	17
59	Growth of young loblolly pine trees following pruning. <i>Forest Ecology and Management</i> , 2011, 262, 2338-2343.	3.2	17
60	Whole-Tree Bark and Wood Properties of Loblolly Pine from Intensively Managed Plantations. <i>Forest Science</i> , 2015, 61, 55-66.	1.0	17
61	Effects of Measurement Error in Total Tree Height and Upper-Stem Diameter on Stem Volume Prediction. <i>Forest Science</i> , 2017, 63, 250-260.	1.0	17
62	Evaluation of Thinning for Reduction of Losses from Southern Pine Beetle Attack in Loblolly Pine Stands. <i>Southern Journal of Applied Forestry</i> , 1986, 10, 105-108.	0.3	16
63	Implementing Regional Locale and Thinning Response in the Loblolly Pine Height-Diameter Relationship. <i>Southern Journal of Applied Forestry</i> , 2010, 34, 21-27.	0.3	16
64	Estimation of carrying capacity in loblolly pine (<i>Pinus taeda</i> L.). <i>Forest Ecology and Management</i> , 2017, 385, 167-176.	3.2	14
65	Regional Simulations of Loblolly Pine Productivity with CO ₂ Enrichment and Changing Climate Scenarios. <i>Forest Science</i> , 2018, 64, 349-357.	1.0	14
66	Stem Volume and Taper Functions for Yellow-Poplar in the Southern Appalachians. <i>Southern Journal of Applied Forestry</i> , 1984, 8, 185-188.	0.3	13
67	Modeling Stand-Level Mortality of Loblolly Pine (<i>Pinus taeda</i> L.) Using Stand, Climate, and Soil Variables. <i>Forest Science</i> , 2015, 61, 834-846.	1.0	13
68	A new model of tropical tree diameter growth rate and its application to identify fast-growing native tree species. <i>Forest Ecology and Management</i> , 2017, 400, 578-586.	3.2	13
69	Yield pattern of eucalypt clones across tropical Brazil: An approach to clonal grouping. <i>Forest Ecology and Management</i> , 2019, 432, 30-39.	3.2	13
70	Growth-Density Relationships in Loblolly Pine Plantations. <i>Forest Science</i> , 2019, 65, 250-264.	1.0	13
71	A Linear Programming Model for Multiple-use Planning. <i>Canadian Journal of Forest Research</i> , 1975, 5, 485-491.	1.7	12
72	Incorporating Thinning Response into a Loblolly Pine Stand Simulator. <i>Southern Journal of Applied Forestry</i> , 2001, 25, 159-164.	0.3	12

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73	Survival Analysis of Loblolly Pine Trees With Spatially Correlated Random Effects. <i>Journal of the American Statistical Association</i> , 2015, 110, 486-502.	3.1	12
74	Stand-level growth and yield model system for clonal eucalypt plantations in Brazil that accounts for water availability. <i>Forest Ecology and Management</i> , 2019, 448, 22-33.	3.2	12
75	Site index estimation for clonal eucalypt plantations in Brazil: A modeling approach refined by environmental variables. <i>Forest Ecology and Management</i> , 2020, 466, 118079.	3.2	12
76	Absolute and relative changes in tree growth rates and changes to the stand diameter distribution of <i>Pinus taeda</i> as a result of midrotation fertilizer applications. <i>Canadian Journal of Forest Research</i> , 2008, 38, 2063-2071.	1.7	11
77	Development of Planting Density-Specific Density Management Diagrams for Loblolly Pine. <i>Southern Journal of Applied Forestry</i> , 2012, 36, 126-129.	0.3	11
78	Generalized stem taper and tree volume equations applied to eucalyptus of varying genetics in Brazil. <i>Canadian Journal of Forest Research</i> , 2019, 49, 447-462.	1.7	11
79	Enhancing the precision of broad-scale forestland removals estimates with small area estimation techniques. <i>Forestry</i> , 2021, 94, 427-441.	2.3	11
80	Title is missing!. <i>Environmental Modeling and Assessment</i> , 2000, 5, 125-137.	2.2	10
81	Forest stand dynamics and similarity theory. <i>Ecological Modelling</i> , 2003, 167, 165-180.	2.5	10
82	The Influence of Thinning on the Proportion of Peeler, Sawtimber, and Pulpwood Trees in Loblolly Pine Plantations. <i>Southern Journal of Applied Forestry</i> , 2005, 29, 158-162.	0.3	10
83	A novel application of small area estimation in loblolly pine forest inventory. <i>Forestry</i> , 2020, 93, 444-457.	2.3	10
84	A simulation study assessing the effect of sampling for predictor variable values on estimates of yield. <i>Canadian Journal of Forest Research</i> , 1984, 14, 326-330.	1.7	9
85	Projecting the Growth of Loblolly Pine in a Changing Atmosphere. <i>Southern Journal of Applied Forestry</i> , 1999, 23, 212-216.	0.3	9
86	A Proposed Model for Deadwood C Production and Decay in Loblolly Pine Plantations. <i>Environmental Management</i> , 2004, 33, S56.	2.7	9
87	Competition among loblolly pine trees: Does genetic variability of the trees in a stand matter?. <i>Forest Ecology and Management</i> , 2012, 263, 122-130.	3.2	9
88	Product-Class Proportions for Thinned and Unthinned Loblolly Pine Plantations. <i>Southern Journal of Applied Forestry</i> , 1989, 13, 192-195.	0.3	8
89	Addressing multi-use issues in sustainable forest management with signal-transfer modeling. <i>Forest Ecology and Management</i> , 2002, 165, 295-304.	3.2	8
90	Relating Quantity, Quality, and Value of Lumber to Planting Density for Loblolly Pine Plantations. <i>Southern Journal of Applied Forestry</i> , 2013, 37, 97-101.	0.3	8

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91	A comparison of alternative data sources for modeling site index in loblolly pine plantations. Canadian Journal of Forest Research, 2015, 45, 1026-1033.	1.7	8
92	Dynamics of size-variable distribution parameters in juvenile loblolly pine (<i>Pinus taeda</i> L.) stands. Forest Ecology and Management, 1993, 58, 321-347.	3.2	7
93	Modulus of elasticity declines with decreasing planting density for loblolly pine (<i>Pinus taeda</i>) plantations. Annals of Forest Science, 2013, 70, 743-750.	2.0	7
94	Height and Diameter Relationships and Distributions in Loblolly Pine Stands of Enhanced Genetic Material. Forest Science, 2013, 59, 278-289.	1.0	7
95	Robustness of Parametric and Nonparametric Fitting Procedures of Tree-Stem Taper with Alternative Definitions for Validation Data. Journal of Forestry, 2020, 118, 576-583.	1.0	7
96	Stem taper functions for <i>Betula platyphylla</i> in the Daxingâ€™an Mountains, northeast China. Journal of Forestry Research, 2021, 32, 529-541.	3.6	7
97	Predicting Mortality After Thinning in Old-field Loblolly Pine Plantations. Southern Journal of Applied Forestry, 1983, 7, 20-23.	0.3	6
98	Tree Volume and Taper of Loblolly Pine Varies by Stand Origin. Southern Journal of Applied Forestry, 1987, 11, 185-189.	0.3	6
99	Using miniature-scale plantations as experimental tools for assessing sustainability issues. Canadian Journal of Forest Research, 2003, 33, 450-454.	1.7	6
100	Evaluation of total tree height subsampling strategies for estimating volume in loblolly pine plantations. Forest Ecology and Management, 2020, 461, 117878.	3.2	6
101	Estimating dry weight of dormant-season foliage of loblolly pine. Biomass and Bioenergy, 1992, 3, 319-322.	5.7	5
102	Modeling trends in stem quality characteristics of loblolly pine trees in unthinned plantations. Canadian Journal of Forest Research, 2008, 38, 1446-1457.	1.7	5
103	A retrospective comparison of carrying capacity of two generations of loblolly pine plantations. Forest Ecology and Management, 2022, 504, 119834.	3.2	5
104	Individual tree merchantable volume to total volume ratios based on geometric solids. Canadian Journal of Forest Research, 1989, 19, 679-683.	1.7	4
105	Scientific visualization for the study and use of forest stand simulators. Landscape and Urban Planning, 1992, 21, 317-318.	7.5	4
106	11 Forest biometrics. Handbook of Statistics, 1994, 12, 377-407.	0.6	4
107	Does Row Orientation Affect the Growth of Loblolly Pine Plantations?. Southern Journal of Applied Forestry, 2009, 33, 77-80.	0.3	4
108	Modeling the Effects of Initial Spacing on Stand Basal Area Development of Loblolly Pine. Forest Science, 2012, 58, 95-105.	1.0	4

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109	Regional Locale and Its Influence on the Prediction of Loblolly Pine Diameter Distributions. Southern Journal of Applied Forestry, 2012, 36, 198-203.	0.3	4
110	Modeling Height Development of Loblolly Pine Genetic Varieties. Forest Science, 2013, 59, 267-277.	1.0	4
111	Plantation Loblolly Pine Seedling Counts with Unmanned Aerial Vehicle Imagery: A Case Study. Journal of Forestry, 2020, 118, 487-500.	1.0	4
112	Effects of early pruning on ring specific gravity in young loblolly pine trees. Wood and Fiber Science, 2020, 52, 139-151.	0.6	4
113	Simulating southern pine beetle activity for pest management decisions. Canadian Journal of Forest Research, 1977, 7, 138-144.	1.7	3
114	Accuracy of Subsampling for Height Measurements in Loblolly Pine Plots. Southern Journal of Applied Forestry, 2009, 33, 145-149.	0.3	3
115	Comments on three comparative analyses of stem taper models published in Journal of Mountain Science in 2014–2016. Journal of Mountain Science, 2016, 13, 534-535.	2.0	3
116	Comparison of volume and stand table estimates with alternate methods for selecting measurement trees in point samples. Forestry, 2019, 92, 42-51.	2.3	3
117	Auxiliary information resolution effects on small area estimation in plantation forest inventory. Forestry, 2020, 93, 685-693.	2.3	3
118	Modeling Clustered Survival Times of Loblolly Pine with Time-dependent Covariates and Shared Frailties. Journal of Agricultural, Biological, and Environmental Statistics, 2016, 21, 92-110.	1.4	2
119	An assessment of potential of hybrid poplar for planting in the Virginia Piedmont. New Forests, 2017, 48, 479-490.	1.7	2
120	Model-Based Growth Comparisons between Loblolly and Slash Pine and between Silvicultural Intensities in East Texas. Forests, 2021, 12, 1611.	2.1	2
121	Computer Corner: Computer Packages and Statistical Analyses. Northern Journal of Applied Forestry, 1985, 2, 99-100.	0.5	1
122	Extending a Model System to Predict Biomass in Mixed-Species Southern Appalachian Hardwood Forests. Southern Journal of Applied Forestry, 2013, 37, 122-126.	0.3	1
123	Complex Forest Ecosystems: From Tree to Landscape. Forest Science, 2015, 61, 409-410.	1.0	1
124	Biomass and nitrogen distribution in four 13-year-old loblolly pine plantations in the Hilly Coastal Plain of Alabama: discussion. Canadian Journal of Forest Research, 1977, 7, 545-546.	1.7	0
125	Compatible crown ratio and crown height models: Reply. Canadian Journal of Forest Research, 1988, 18, 825-826.	1.7	0
126	Predicting impact of southern pine beetle infestations on rotation-age yield of loblolly pine stands. Forest Ecology and Management, 1992, 47, 261-268.	3.2	0

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127	Worldwide Forest Mensuration History. Forest Science, 2008, 54, 123-124.	1.0	0