Hemlock Declines Rapidly with Hemlock Woolly Adelgi Cycle of Southern Appalachian Forests

Ecosystems

12, 179-190

DOI: 10.1007/s10021-008-9215-3

Citation Report

#	Article	IF	CITATIONS
1	Ecosystem Consequences of Biological Invasions. Annual Review of Ecology, Evolution, and Systematics, 2010, 41, 59-80.	8.3	867
2	Effects of the Hemlock Woolly Adelgid on Nitrogen Losses from Urban and Rural Northern Forest Ecosystems. Ecosystems, 2010, 13, 1215-1226.	3.4	36
3	Species shift drives decomposition rates following invasion by hemlock woolly adelgid. Oikos, 2010, 119, 1291-1298.	2.7	33
4	Changes in light levels and stream temperatures with loss of eastern hemlock (Tsuga canadensis) at a southern Appalachian stream: Implications for brook trout. Forest Ecology and Management, 2010, 260, 1677-1688.	3.2	32
5	Experimentally testing the role of foundation species in forests: the Harvard Forest Hemlock Removal Experiment. Methods in Ecology and Evolution, 2010, 1, 168-179.	5.2	63
6	Can structural and functional characteristics be used to identify riparian zone width in southern Appalachian headwater catchments?. Canadian Journal of Forest Research, 2010, 40, 235-253.	1.7	23
7	Early impacts of hemlock woolly adelgid in Tsuga canadensis forest communities of the southern Appalachian Mountains ¹ . Journal of the Torrey Botanical Society, 2011, 138, 93-106.	0.3	41
8	Disturbance and the resilience of coupled carbon and nitrogen cycling in a north temperate forest. Journal of Geophysical Research, 2011, 116, .	3.3	108
9	The contribution of the Coweeta Hydrologic Laboratory to developing an understanding of long-term (1934–2008) changes in managed and unmanaged forests. Forest Ecology and Management, 2011, 261, 900-910.	3.2	73
10	Alien invasions: the effects of introduced species on forest structure and function., 0,, 115-162.		25
11	Hemlock Infestation and Mortality: Impacts on Nutrient Pools and Cycling in Appalachian Forests. Soil Science Society of America Journal, 2011, 75, 1935-1945.	2.2	34
12	Long-term temperature and precipitation trends at the Coweeta Hydrologic Laboratory, Otto, North Carolina, USA. Hydrology Research, 2012, 43, 890-901.	2.7	115
13	Decline in riparianTsuga canadensisforests of the central Appalachians across anAdelges tsugaeinvasion chronosequence1. Journal of the Torrey Botanical Society, 2012, 139, 367-378.	0.3	9
14	Understory Composition of FiveTsuga canadensisAssociated Forest Communities in Great Smoky Mountains National Park. Natural Areas Journal, 2012, 32, 260-269.	0.5	5
15	Effects of Hemlock Mortality on Streams in the Southern Appalachian Mountains. American Midland Naturalist, 2012, 168, 112-131.	0.4	42
16	Impacts of Hemlock Loss on Nitrogen Retention Vary with Soil Nitrogen Availability in the Southern Appalachian Mountains. Ecosystems, 2012, 15, 1108-1120.	3.4	12
17	A foundation tree at the precipice:Tsuga canadensishealth after the arrival ofAdelges tsugaein central New England. Ecosphere, 2012, 3, art10.	2.2	70
18	Managing Carbon Sequestration and Storage in Temperate and Boreal Forests., 2012,, 205-226.		9

#	Article	IF	CITATIONS
19	Widespread inbreeding and unexpected geographic patterns of genetic variation in eastern hemlock (Tsuga canadensis), an imperiled North American conifer. Conservation Genetics, 2012, 13, 475-498.	1.5	32
20	Effects of biotic disturbances on forest carbon cycling in the <scp>U</scp> nited <scp>S</scp> tates and <scp>C</scp> anada. Global Change Biology, 2012, 18, 7-34.	9.5	418
21	Forest dynamics following eastern hemlock mortality in the southern Appalachians. Oikos, 2012, 121, 523-536.	2.7	108
22	Loss of a foundation forest species due to an exotic invader impacts terrestrial arthropod communities. Forest Ecology and Management, 2013, 295, 126-135.	3.2	35
23	Hemlock woolly adelgid in the southern Appalachians: Control strategies, ecological impacts, and potential management responses. Forest Ecology and Management, 2013, 291, 209-219.	3.2	78
24	Patterns and predictors of survival in Tsuga canadensis populations infested by the exotic pest Adelges tsugae: 20years of monitoring. Forest Ecology and Management, 2013, 305, 195-203.	3.2	37
25	The foundation species influence of eastern hemlock (Tsuga canadensis) on biodiversity and ecosystem function on the Unglaciated Allegheny Plateau. Forest Ecology and Management, 2013, 289, 143-152.	3.2	22
26	Indirect effects of an invasive exotic species on a long-distance migratory songbird. Biological Invasions, 2013, 15, 1947-1959.	2.4	6
27	Interactive effects of disturbance and nitrogen availability on phosphorus dynamics of southern Appalachian forests. Biogeochemistry, 2013, 112, 329-342.	3.5	18
28	Factors Affecting Establishment and Recovery of <l>Sasajiscymnus tsugae</l> (Coleoptera:) Tj ETQq1	1 0.78431 1.4	14 rgBT /Ove 9
29	Hemlock (Pinales: Pinaceae). Environmental Entomology, 2013, 42, 1272-1280. Hemlock woolly adelgid (<i><scp>A</scp>delges tsugae</i>) infestation affects water and carbon relations of eastern hemlock (<i><scp>T</scp>suga canadensis</i>) and <scp>C</scp> arolina hemlock (<i><scp>T</scp>suga caroliniana</i>). New Phytologist, 2013, 199, 452-463.	7.3	58
30	Effects of introduced insects and diseases on forest ecosystems in the Catskill Mountains of New York. Annals of the New York Academy of Sciences, 2013, 1298, 66-77.	3.8	14
31	Hemlock Legacy Project (HeLP). Progress in Physical Geography, 2013, 37, 114-129.	3.2	7
32	Future species composition will affect forest water use after loss of eastern hemlock from southern Appalachian forests. Ecological Applications, 2013, 23, 777-790.	3.8	65
33	Ecosystem Function in Appalachian Headwater Streams during an Active Invasion by the Hemlock Woolly Adelgid. PLoS ONE, 2013, 8, e61171.	2.5	7
34	Experiments Are Revealing a Foundation Species: A Case Study of Eastern Hemlock (<i>Tsuga) Tj ETQq1 1 0.784</i>	314.ggBT /	Overlock 10
35	Canopy Vegetation Influences Ant (Hymenoptera: Formicidae) Communities in Headwater Stream Riparian Zones of Central Appalachia. Journal of Insect Science, 2014, 14, .	1.5	3
36	Community Responses to Eastern Hemlock Loss Across a Latitudinal Gradient. Southeastern Naturalist, 2014, , .	0.4	1

3

#	ARTICLE	IF	Citations
37	Postâ€elearcut dynamics of carbon, water and energy exchanges in a midlatitude temperate, deciduous broadleaf forest environment. Global Change Biology, 2014, 20, 992-1007.	9.5	42
38	Predicting Bird Community Changes to Invasion of Hemlock Woolly Adelgid in Kentucky. Southeastern Naturalist, 2014, , .	0.4	1
39	Building a foundation: Land-use history and dendrochronology reveal temporal dynamics of a < i>Tsuga canadensis < /i> (Pinaceae) forest. Rhodora, 2014, 116, 377-427.	0.1	17
40	Failure under stress: the effect of the exotic herbivore Adelges tsugae on biomechanics of Tsuga canadensis. Annals of Botany, 2014, 113, 721-730.	2.9	13
41	Rapid rebound of soil respiration following partial stand disturbance by tree girdling in a temperate deciduous forest. Oecologia, 2014, 174, 1415-1424.	2.0	19
42	Effect of an exotic herbivore, Adelges tsugae, on photosynthesis of a highly susceptible Tsuga host, with notes on conspecifics. Arthropod-Plant Interactions, 2014, 8, 9-15.	1.1	17
43	Drought changes the structure and elemental composition of very fine roots in seedlings of ten woody tree species. Implications for a drier climate. Plant and Soil, 2014, 384, 113-129.	3.7	74
44	Radial growth changes following hemlock woolly adelgid infestation of eastern hemlock. Annals of Forest Science, 2014, 71, 595-602.	2.0	4
45	Contrasting effects of two exotic invasive hemipterans on wholeâ€plant resource allocation in a declining conifer. Entomologia Experimentalis Et Applicata, 2015, 157, 86-97.	1.4	10
46	Temporal Variability in Climate Response of Eastern Hemlock in the Central Appalachian Region. Southeastern Geographer, 2015, 55, 143-163.	0.2	18
47	Benthic Collector and Grazer Communities Are Threatened by Hemlock Woolly Adelgid-Induced Eastern Hemlock Loss. Forests, 2015, 6, 2719-2738.	2.1	8
48	Influence of Hemlock Woolly Adelgid Infestation Levels on Water Stress in Eastern Hemlocks within the Great Smoky Mountains National Park, U.S.A Forests, 2015, 6, 271-279.	2.1	5
49	Functional Role of the Herbaceous Layer in Eastern Deciduous Forest Ecosystems. Ecosystems, 2015, 18, 221-236.	3.4	43
50	A terrestrial invader threatens a benthic community: potential effects of hemlock woolly adelgid-induced loss of eastern hemlock on invertebrate shredders in headwater streams. Biological Invasions, 2015, 17, 1163-1179.	2.4	11
51	A Presence-Only Model of Suitable Roosting Habitat for the Endangered Indiana Bat in the Southern Appalachians. PLoS ONE, 2016, 11, e0154464.	2.5	21
52	<i>Quercus suber</i> dieback alters soil respiration and nutrient availability in Mediterranean forests. Journal of Ecology, 2016, 104, 1441-1452.	4.0	49
53	Cold air drainage flows subsidize montane valley ecosystem productivity. Global Change Biology, 2016, 22, 4014-4027.	9.5	24
54	Multiyear droughtâ€induced morbidity preceding tree death in southeastern U.S. forests. Ecological Applications, 2016, 26, 17-23.	3.8	112

#	Article	IF	CITATIONS
55	Nonnative forest insects and pathogens in the United States: Impacts and policy options. Ecological Applications, 2016, 26, 1437-1455.	3.8	289
56	Hemlock Woolly Adelgid (Hemiptera: Adelgidae) Abundance and Hemlock Canopy Health Numerous Years After Imidacloprid Basal Drench Treatments: Implications for Management Programs. Journal of Economic Entomology, 2016, 109, 2125-2136.	1.8	13
57	Hemlock Woolly Adelgid (Adelges tsugae) and Hemlock (Tsugaspp.) in Western North Carolina: What do the Forest Inventory and Analysis Data Tell Us?. Southeastern Naturalist, 2016, 15, 631-645.	0.4	1
58	Influences of aTsuga canadensis(L.) Carriere (Eastern Hemlock) Riparian Habitat on a Lotic Benthic Community. Northeastern Naturalist, 2016, 23, 555-570.	0.3	0
59	Altered edaphic parameters couple to shifts in terrestrial bacterial community structure associated with insect-induced tree mortality. Soil Biology and Biochemistry, 2016, 95, 19-29.	8.8	25
60	Disturbance Decouples Biogeochemical Cycles Across Forests of the Southeastern US. Ecosystems, 2016, 19, 50-61.	3.4	31
61	Indiana bats roost in ephemeral, fire-dependent pine snags in the southern Appalachian Mountains, USA. Forest Ecology and Management, 2017, 391, 264-274.	3.2	30
62	Modeling the impacts of hemlock woolly adelgid infestation and presalvage harvesting on carbon stocks in northern hemlock forests. Canadian Journal of Forest Research, 2017, 47, 727-734.	1.7	9
63	Individual and nonâ€additive effects of exotic sapâ€feeders on root functional and mycorrhizal traits of a shared conifer host. Functional Ecology, 2017, 31, 2024-2033.	3.6	4
64	Vegetation responses to simulated emerald ash borer infestation in <i>Fraxinus nigra</i> dominated wetlands of Upper Michigan, USA. Canadian Journal of Forest Research, 2017, 47, 319-330.	1.7	28
65	Baseline Capture Rates and Roosting Habits of <i>Myotis septentrionalis</i> (Northern Long-Eared) Tj ETQq0 0 0 2017, 16, 140-148.	rgBT /Ove 0.4	
66	The big chill: quantifying the effect of the 2014 North American cold wave on hemlock woolly adelgid populations in the central Appalachian Mountains. Population Ecology, 2017, 59, 251-258.	1.2	21
67	Implications of early production in an invasive forest pest. Agricultural and Forest Entomology, 2017, 19, 217-224.	1.3	7
68	A Little Bug with a Big Bite: Impact of Hemlock Woolly Adelgid Infestations on Forest Ecosystems in the Eastern USA and Potential Control Strategies. International Journal of Environmental Research and Public Health, 2017, 14, 438.	2.6	9
69	Warmer temperatures reduce net carbon uptake, but do not affect water use, in a mature southern Appalachian forest. Agricultural and Forest Meteorology, 2018, 252, 269-282.	4.8	48
70	Hemlock Woolly Adelgid (Hemiptera: Adelgidae): A Non-Native Pest of Hemlocks in Eastern North America. Journal of Integrated Pest Management, 2018, 9, .	2.0	25
71	The Past, Present, and Future of the Hemlock Woolly Adelgid (Adelges tsugae) and Its Ecological Interactions with Eastern Hemlock (Tsuga canadensis) Forests. Insects, 2018, 9, 172.	2.2	33
72	Tree Stress and Mortality from Emerald Ash Borer Does Not Systematically Alter Short-Term Soil Carbon Flux in a Mixed Northeastern U.S. Forest. Forests, 2018, 9, 37.	2.1	6

#	ARTICLE	IF	CITATIONS
73	Herbaceous-layer diversity and tree seedling recruitment are enhanced following Rhododendron maximum shrub removal. Forest Ecology and Management, 2018, 430, 403-412.	3.2	11
74	Soil microbial response to Rhododendron understory removal in southern Appalachian forests: Effects on extracellular enzymes. Soil Biology and Biochemistry, 2018, 127, 50-59.	8.8	29
75	Leaf Damage by Phytophagous Beetles alters Terminalia catappa Green and Senesced Leaf Chemistry. International Journal of Insect Science, 2018, 10, 117954331879732.	1.7	0
76	Response of Black Ash Wetland Gaseous Soil Carbon Fluxes to a Simulated Emerald Ash Borer Infestation. Forests, 2018, 9, 324.	2.1	9
77	Impact of hemlock woolly adelgid (Adelges tsugae) infestation on xylem structure and function and leaf physiology in eastern hemlock (Tsuga canadensis). Functional Plant Biology, 2018, 45, 501.	2.1	9
78	Tree Mortality From Insect Infestation Enhances Carbon Stabilization in Southern Appalachian Forest Soils. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2121-2134.	3.0	14
79	Interacting Effects of Global Change on Forest Pest and Pathogen Dynamics. Annual Review of Ecology, Evolution, and Systematics, 2019, 50, 381-403.	8.3	50
80	Nitrogen cycling responses to simulated emerald ash borer infestation in Fraxinus nigra-dominated wetlands. Biogeochemistry, 2019, 145, 275-294.	3 . 5	5
81	Biomass losses resulting from insect and disease invasions in US forests. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17371-17376.	7.1	105
82	Hemlock Woolly Adelgid (Hemiptera: Adelgidae) Management in Forest, Landscape, and Nursery Production. Journal of Insect Science, 2019, 19, .	1.5	3
83	Lack of forest tree seedling recruitment and enhanced tree and shrub growth characterizes post-Tsuga canadensis mortality forests in the southern Appalachians. Forest Ecology and Management, 2019, 440, 122-130.	3.2	15
84	Seasonal Assessment of Supercooling Points for Two Introduced and One Native Laricobius spp. (Coleoptera: Derodontidae), Predators of Adelgidae. Insects, 2019, 10, 426.	2.2	3
85	Assessment of Disturbances across Forest Inventory Plots in the Southeastern United States for the Period 1995–2018. Forest Science, 2020, 66, 242-255.	1.0	10
86	Impact of fire and harvest on forest ecosystem services in a speciesâ€rich area in the southern Appalachians. Ecosphere, 2020, 11, e03150.	2.2	4
87	An invasive insect, hemlock woolly adelgid, indirectly impacts Louisiana Waterthrush nest site selection and nest survival in the southern Appalachians. Condor, 2020, 122, .	1.6	1
88	Stem CO ₂ efflux of <i>Cycas micronesica</i> is reduced by chronic non-native insect herbivory. Plant Signaling and Behavior, 2020, 15, 1716160.	2.4	9
89	Physiological responses of eastern hemlock (Tsuga canadensis) to light, adelgid infestation, and biological control: Implications for hemlock restoration. Forest Ecology and Management, 2020, 460, 117903.	3.2	10
90	Towards broadâ€scale temperature reconstructions for Eastern North America using blue light intensity from tree rings. International Journal of Climatology, 2021, 41, E3142.	3.5	11

#	ARTICLE	IF	CITATIONS
91	Eastern white pine and eastern hemlock growth: possible tradeoffs in response of canopy trees to climate. Canadian Journal of Forest Research, 2021, 51, 1926-1938.	1.7	4
92	Impacts of Invasive Species on Forest and Grassland Ecosystem Processes in the United States. , 2021, , 41-55.		3
93	Effects of Climate Change on Invasive Species. , 2021, , 57-83.		36
94	Development of monitoring methods for Hemlock Woolly Adelgid induced tree mortality within a Southern Appalachian landscape with inhibited access. IForest, 2016, 9, 178-186.	1.4	6
95	Factors affecting Velcro-covered balls when used as a sampling device for wool of Adelges tsugae (Hemiptera: Adelgidae). Canadian Entomologist, 2019, 151, 101-114.	0.8	4
96	Evaluating Southern Appalachian Forest Dynamics without Eastern Hemlock: Consequences of Herbivory by the Hemlock Woolly Adelgid. Open Journal of Forestry, 2014, 04, 91-99.	0.3	6
97	Spatial Distribution of Hemlock Woolly Adelgid Induced Hemlock Mortality in the Southern Appalachians. Open Journal of Forestry, 2014, 04, 492-506.	0.3	8
98	Foundation species loss affects vegetation structure more than ecosystem function in a northeastern USA forest. PeerJ, 2013, 1, e41.	2.0	60
99	Forest Service Experimental Forests and Long-term Data Sets: Stories of Their Meaning to Station Directors. , 2014, , 25-57.		0
100	Treatment Strategies Using Imidacloprid in Hemlock Woolly Adelgid (Adelges tsugae Annand) Infested Eastern Hemlock (Tsuga canadensis Carrière) Trees. Arboriculture and Urban Forestry, 2012, 38, 41-49.	0.6	12
101	Throughfall Deposition Chemistry in the Great Smoky Mountains National Park: Landscape and Seasonal Effects. Water, Air, and Soil Pollution, 2022, 233, 1.	2.4	3
102	Larger hardwood trees benefit from removing Rhododendron maximum following Tsuga canadensis mortality. Forest Ecology and Management, 2022, 516, 120234.	3.2	0
104	Tree Species Effects on Soil CO2 and CH4 Fluxes in a Mixed Temperate Forest. Ecosystems, 0, , .	3.4	0
105	Effects of Hemlock Woolly Adelgid Control Using Imidacloprid on Leaf-Level Physiology of Eastern Hemlock. Forests, 2023, 14, 1228.	2.1	1
106	Tree species size class patterns portend compositional shifts and low resilience in managed northern hardwood forests. Ecosphere, 2023, 14, .	2.2	4
107	Applying three decades of research to mitigate the impacts of hemlock woolly adelgid on Ontario's forests. Forestry Chronicle, 2023, 99, 205-225.	0.6	0
108	Carbon allocation in an East African ant-acacia: field testing a 13C -labeling method for evaluating biotic impacts on the carbon cycle. Plant Ecology, 0, , .	1.6	0
109	Basal Bark Treatment of Imidacloprid for Hemlock Woolly Adelgids (Adelges tsugae). Forests, 2023, 14, 2229.	2.1	0

#	Article	IF	CITATIONS
110	A Century of Change in a Mature Urban Forest: the Thain Family Forest of the New York Botanical Garden, Bronx, New York. Journal of Forestry, 0, , .	1.0	0
111	Effects of an Invasive Bark Beetle Polygraphus proximus Blandf. Outbreak on Carbon Pool Dynamics in West Siberian Dark Coniferous Forests. Forests, 2024, 15, 542.	2.1	O
112	Logging response alters trajectories of reorganization after loss of a foundation tree species. Ecological Applications, 2024, 34, .	3.8	0