

**NE Northern Forest**  
(summary of TreeAtlas results 2015-see companion file for keys to interpret)  
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		DISTRIB Results (suitable habitat)																					
		Current IV		Modeled IV						Future : Current						Change Class 2070-2099		Modifying Factors					
FIA	Common Name	Current		2010 - 2039		2040 - 2069		2070 - 2099		2010 - 2039		2040 - 2069		2070 - 2099		Change Class	GFDL A1FI	Positive Traits	Negative Traits	DistFact	BioFact	Adapt	
		FIA IV	Modeled	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI								
951	American basswood	216	266	213	325	244	403	250	447	0.80	1.22	0.92	1.52	0.94	1.68	No change	Small increase	COL	FTK	0.31	0.16	4.6	
531	American beech	2890	2880	2942	2630	2876	1992	2830	1557	1.02	0.91	1.00	0.69	0.98	0.54	No change	Small decrease	COL	INS FTK	-1.14	0.03	3.6	
421	American chestnut	11	5	9	8	9	6	9	5	1.80	1.60	1.80	1.20	1.80	1.00	No change	No change	COL	DISE FTK	0.13	0.3	4.5	
972	American elm	446	479	466	620	509	919	559	1158	0.97	1.29	1.06	1.92	1.17	2.42	No change	Large increase	EHS	DISE INS	-0.8	0.3	4.0	
591	American holly	0	0	0	0	0	0	0	4	NA	NA	NA	NA	NA	New	NA	New habitat	COL EHS	FTK	-0.1	0.47	4.5	
391	American hornbeam:musclemo	133	157	163	188	184	327	187	374	1.04	1.20	1.17	2.08	1.19	2.38	No change	Large increase	COL SES	FTK DRO	0.56	0.62	5.1	
935	American mountain-ash	72	33	43	22	28	5	21	2	1.30	0.67	0.85	0.15	0.64	0.06	No change	Large decrease		FTK COL EHS	-0.23	-1.62	3.1	
43	Atlantic white-cedar	10	8	7	7	6	6	6	6	0.88	0.88	0.75	0.75	0.75	0.75	No Change	No Change	DISP	FTK DRO EHS	-0.61	-1.21	3.0	
12	Balsam fir	3486	3512	3186	2658	2798	1129	2616	872	0.91	0.76	0.80	0.32	0.75	0.25	Small decrease	Large decrease	COL	INS FTK DRO	-3	-0.35	2.7	
741	Balsam poplar	66	71	44	38	34	32	41	38	0.62	0.54	0.48	0.45	0.58	0.54	Small decrease	Small decrease	FRG VRE	COL DRO	0.13	-0.59	4.0	
816	Bear oak:scrub oak	6	4	4	6	5	9	6	8	1.00	1.50	1.25	2.25	1.50	2.00	No change	No change	FRG VRE	COL FTK	1.04	-0.81	4.6	
743	Bigtooth aspen	285	352	314	387	351	408	363	355	0.89	1.10	1.00	1.16	1.03	1.01	No change	No change	FRG DISP	COL DRO FTK	1.01	0.16	5.1	
402	Bitternut hickory	31	18	26	59	27	166	36	251	1.44	3.28	1.50	9.22	2.00	13.94	No change	Large increase	DRO	COL	2.17	-0.83	5.6	
543	Black ash	220	296	196	269	193	232	197	226	0.66	0.91	0.65	0.78	0.67	0.76	Small decrease	Small decrease		ESP	-1.31	-3	1.7	
762	Black cherry	1002	1112	1153	1317	1219	1567	1248	1520	1.04	1.18	1.10	1.41	1.12	1.37	No change	Small increase	DRO EHS	INS FTK COL	-1.56	-0.32	3.0	
408	Black hickory	0	0	0	0	0	37	0	311	NA	NA	NA	New	NA	New	NA	New habitat	EHS COL	1.04	-2.27	4.1		
901	Black locust	15	32	37	123	64	294	83	481	1.16	3.84	2.00	9.19	2.59	15.03	No change	Large increase		COL INS	0	-0.59	3.8	
314	Black maple	4	1	1	1	1	1	1	0	1.00	1.00	1.00	1.00	1.00	0.00	NA	NA	COL EHS	FTK	0.48	0.9	5.2	
837	Black oak	69	157	176	375	258	854	304	1196	1.12	2.39	1.64	5.44	1.94	7.62	Small increase	Large increase	DRO EHS	INS DISE	0.51	0.42	4.9	
95	Black spruce	270	329	237	227	192	27	179	4	0.72	0.69	0.58	0.08	0.54	0.01	Small decrease	Large decrease	DISP	FTK INS DRO	-2.14	1.24	4.3	
602	Black walnut	9	23	27	118	54	392	71	553	1.17	5.13	2.35	17.04	3.09	24.04	No change	Large increase	SES	COL DRO	0.35	-0.83	4.0	
922	Black willow	115	117	119	160	132	310	144	427	1.02	1.37	1.13	2.65	1.23	3.65	Small increase	Large increase		COL FTK DRO	-0.31	-2.13	2.8	
693	Blackgum	2	8	15	31	29	161	43	275	1.88	3.88	3.63	20.13	5.38	34.38	Small increase	Large increase	COL FTK		1.46	0.83	5.9	
824	Blackjack oak	0	1	0	0	0	26	0	208	0.00	0.00	0.00	26.00	0.00	208.00	NA	New habitat	DRO SES	FRG VRE	COL FTK	1.56	0.21	5.6
313	Boxelder	46	79	66	171	68	229	74	395	0.84	2.17	0.86	2.90	0.94	5.00	No change	Large increase	DRO COL	FTK	2.39	2.06	7.4	
823	Bur oak	11	25	11	88	12	166	18	313	0.44	3.52	0.48	6.64	0.72	12.52	No change	Large increase	DRO FTK		2.77	-0.16	6.4	
601	Butternut	66	34	42	45	39	30	41	18	1.24	1.32	1.15	0.88	1.21	0.53	Small increase	Small decrease		FTK COL DRO	-1.41	-1.27	2.3	
832	Chestnut oak	35	89	112	153	174	558	188	759	1.26	1.72	1.96	6.27	2.11	8.53	Large increase	Large increase	SES VRE	EHS FTK	1.39	1.29	6.1	
826	Chinkapin oak**	0	2	1	3	2	91	1	215	0.50	1.50	1.00	45.50	0.50	107.50	NA	New habitat	TGR		1.18	-0.66	4.8	
763	Chokecherry	167	143	141	138	142	65	150	58	0.99	0.97	0.99	0.46	1.05	0.41	No change	Large decrease		COL	0.18	-0.86	3.8	
521	Common persimmon	0	0	0	0	0	92	0	360	NA	NA	NA	New	NA	New	NA	New habitat	COL EHS		1.18	0.95	5.8	
742	Eastern cottonwood	37	48	44	142	58	472	79	762	0.92	2.96	1.21	9.83	1.65	15.88	Small increase	Large increase	TGR	INS COL DISE	0.22	-0.75	3.9	
261	Eastern hemlock	1902	1856	1980	2024	2069	1939	2110	1687	1.07	1.09	1.12	1.05	1.14	0.91	No change	No change	COL	INS DRO	-1.34	-0.88	2.7	
701	Eastern hophornbeam	535	548	503	562	536	651	553	731	0.92	1.03	0.98	1.19	1.01	1.33	No change	Small increase	COL EHS	TGR	1.72	1.29	6.4	

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		Current IV		Modeled IV						Future : Current						Change Class 2070-2099		Modifying Factors				
		Current		2010 - 2039		2040 - 2069		2070 - 2099		2010 - 2039		2040 - 2069		2070 - 2099				Positive	Negative	DistFact	BioFact	Adapt
FIA	Common Name	FIA IV	Modeled	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	GFDL A1FI	Traits	Traits			
471	Eastern redbud	1	0	0	1	0	209	0	416	2.20	10.00	5.27	209.00	0.00	416.00	—	Small increase			0.9	-0.03	4.9
68	Eastern red cedar	24	48	54	255	100	927	140	1534	1.13	5.31	2.08	19.31	2.92	31.96	Large increase	Large increase	DRO	FTK COL INS	0.56	-1.48	3.9
129	Eastern white pine	1934	1863	1839	1893	1923	1718	1935	1685	0.99	1.02	1.03	0.92	1.04	0.90	No change	No change	DISP	DRO FTK INS	-1.97	0.13	3.3
491	Flowering dogwood	19	15	33	150	79	628	113	971	2.20	10.00	5.27	41.87	7.53	64.73	Small increase	Large increase	COL		0.07	0.95	5.0
379	Gray birch	343	302	295	295	291	302	298	292	0.98	0.98	0.96	1.00	0.99	0.97	No change	No change	DISP EHS	FTK COL INS	-1.14	0.03	3.6
544	Green ash	58	87	67	81	71	112	75	210	0.77	0.93	0.82	1.29	0.86	2.41	No change	Large increase		INS FTK COL	-0.13	-0.25	4.0
462	Hackberry**	0	9	4	69	11	375	28	610	0.44	7.67	1.22	41.67	3.11	67.78	New habitat	New habitat	DRO	FTK	1.66	0.3	5.7
552	Honeylocust	2	6	5	49	8	282	14	482	0.83	8.17	1.33	47.00	2.33	80.33	No change	Large increase		COL	1.91	-0.54	5.5
105	Jack pine	6	74	28	93	31	97	37	128	0.38	1.26	0.42	1.31	0.50	1.73	Small decrease	Small increase	DRO	COL INS	1.87	-1.24	5.2
131	Loblolly pine	0	14	5	10	4	24	8	103	0.36	0.71	0.29	1.71	0.57	7.36	NA	New habitat	EHS	COL	-0.51	-0.66	3.4
409	Mockernut hickory	25	51	40	56	53	210	58	332	0.78	1.10	1.04	4.12	1.14	6.51	No change	Large increase		FTK	1.69	-0.28	5.4
319	Mountain maple	241	223	192	167	156	38	141	18	0.86	0.75	0.70	0.17	0.63	0.08	Small decrease	Large decrease	EHS	DRO FTK	0.8	1.48	5.9
452	Northern catalpa**	0	5	3	2	2	2	2	2	0.60	0.40	0.40	0.40	0.40	0.40	NA	NA		COL EHS	0.93	-1.58	4.2
809	Northern pin oak**	1	9	1	39	2	26	4	45	0.11	4.33	0.22	2.89	0.44	5.00	No change	Small increase	DRO FTK	COL	2.52	-0.56	6.0
833	Northern red oak	780	853	949	1245	1123	1791	1219	1871	1.11	1.46	1.32	2.10	1.43	2.19	Small increase	Large increase		INS	1.39	0.13	5.4
241	Northern white-cedar	842	918	709	750	624	481	605	443	0.77	0.82	0.68	0.52	0.66	0.48	Small decrease	Large decrease	COL	FTK	-0.7	0.49	4.2
331	Ohio buckeye	1	0	0	6	0	14	4	17	0.00	0.00	0.00	1.00	0.00	1.00	No change	Small increase	COL	SES FTK	0.38	-1.92	3.5
641	Osage-orange	0	7	6	15	5	52	7	81	0.86	2.14	0.71	7.43	1.00	11.57	NA	New habitat	EHS ESP		2.32	0.33	6.3
822	Overcup oak	0	13	4	4	4	4	4	6	0.31	0.31	0.31	0.31	0.31	0.46	NA	NA		FTK INS DRO	-0.51	-0.95	3.2
375	Paper birch	1412	1427	1234	1262	1121	646	1086	384	0.87	0.88	0.79	0.45	0.76	0.27	Small decrease	Large decrease	FRG DISP	FTK COL INS	-1.72	0.18	3.4
367	Pawpaw**	0	1	0	1	1	30	0	90	0.00	1.00	1.00	30.00	0.00	90.00	NA	New habitat	COL	DRO	-0.48	-0.32	3.7
403	Pignut hickory	34	68	69	141	108	411	130	598	1.02	2.07	1.59	6.04	1.91	8.79	Small increase	Large increase	EHS	INS DRO	0.22	0.4	4.7
761	Pin cherry	303	299	273	267	260	209	258	176	0.91	0.89	0.87	0.70	0.86	0.59	No change	Small decrease	SES FRG FTK	COL	0.45	-0.68	4.2
830	Pin oak	1	6	6	31	14	109	26	166	1.00	5.17	2.33	18.17	4.33	27.67	Small increase	Large increase		FTK COL INS	-0.65	-1.39	2.8
126	Pitch pine	24	29	21	27	24	42	29	63	0.72	0.93	0.83	1.45	1.00	2.17	No change	No change		COL INS	0.56	-1.79	3.8
835	Post oak	0	1	0	0	0	183	0	894	0.00	0.00	0.00	183.00	0.00	894.00	NA	New habitat	FTK	COL INS DISE	2.17	-0.59	5.7
746	Quaking aspen	813	968	815	942	823	743	847	556	0.84	0.97	0.85	0.77	0.88	0.57	No change	Small decrease	EHS	TGR FRG	0.56	0.01	4.7
316	Red maple	4113	4339	4501	4332	4666	4432	4696	3849	1.04	1.00	1.08	1.02	1.08	0.89	No change	No change	SES EHS ESP	COL DISP	3	3	8.5
682	Red mulberry**	0	3	1	87	8	473	25	746	0.33	29.00	2.67	157.67	8.33	248.67	New habitat	New habitat	COL DISP	FTK	0.07	0.59	4.7
125	Red pine	144	208	160	260	185	410	209	523	0.77	1.25	0.89	1.97	1.01	2.51	No change	Large increase		INS COL DISP	0.86	-2.42	3.9
97	Red spruce	2064	2017	1897	1301	1484	723	1393	688	0.94	0.65	0.74	0.36	0.69	0.34	Small decrease	Large decrease	EHS COL	FTK SES	-1.28	-0.62	2.9
373	River birch**	0	7	3	11	2	4	2	7	0.43	1.57	0.29	0.57	0.29	1.00	NA	—	DISP	FTK COL DRO	-0.45	-0.32	3.7
977	Rock elm	0	0	0	1	0	0	1	13	NA	NA	NA	NA	NA	New	NA	New habitat		EHS ESP SES	-0.2	-2.61	2.8
931	Sassafras	5	20	26	65	62	282	73	496	1.30	3.25	3.10	14.10	3.65	24.80	No change	Large increase		COL FTK	0.48	-0.64	4.2

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		Current IV		Modeled IV						Future : Current																
		Current		2010 - 2039		2040 - 2069		2070 - 2099		2010 - 2039		2040 - 2069		2070 - 2099		PCM B1	GFDL A1FI	Positive Traits	Negative Traits	DistFact	BioFact	Adapt				
		FIA IV	Modeled	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI											
806	Scarlet oak	11	13	37	78	68	281	77	479	2.85	6.00	5.23	21.62	5.92	36.85	Small increase	Large increase	VRE EHS	ESP	INS DISE FTK	-0.35	0.71	4.6			
356	Serviceberry	294	251	268	319	304	353	308	340	1.07	1.27	1.21	1.41	1.23	1.36	Small increase	Small increase	COL SES	DRO		-0.38	0.98	4.8			
407	Shagbark hickory	37	56	67	145	101	287	112	406	1.20	2.59	1.80	5.13	2.00	7.25	Large increase	Large increase		INS FTK		-0.2	0.37	4.4			
405	Shellbark hickory	0	0	0	0	0	32	0	66	NA	NA	NA	New	NA	New	NA	New habitat	COL	FTK EHS		-0.48	-0.3	3.7			
817	Shingle oak	0	1	0	0	1	84	1	150	0.00	0.00	1.00	84.00	1.00	150.00	NA	New habitat	EHS	COL		1.31	-0.74	4.9			
110	Shortleaf pine	0	4	1	1	1	15	1	161	0.25	0.25	0.25	3.75	0.25	40.25	NA	New habitat	EHS	COL INS DRO		0	-0.97	3.6			
317	Silver maple	83	114	107	227	143	496	167	715	0.94	1.99	1.25	4.35	1.47	6.27	Small increase	Large increase	DISP SES			0.13	1.63	5.6			
975	Slippery elm	30	58	51	148	73	322	94	451	0.88	2.55	1.26	5.55	1.62	7.78	Small increase	Large increase	COL	FTK DISE		0.03	0.68	4.8			
812	Southern red oak	0	0	0	0	0	0	0	51	NA	NA	NA	NA	NA	New	NA	New habitat	TGR			1.21	0.21	5.3			
315	Striped maple	976	913	920	785	851	544	824	445	1.01	0.86	0.93	0.60	0.90	0.49	No change	Large decrease	COL SES	DRO		0.96	0.25	5.1			
318	Sugar maple	3920	3999	3917	3534	3719	2897	3636	2626	0.98	0.88	0.93	0.72	0.91	0.66	No change	Small decrease	COL EHS			0.86	1.34	5.8			
461	Sugarberry	0	8	3	3	4	8	4	74	0.38	0.38	0.50	1.00	0.50	9.25	NA	New habitat	COL SES	FTK		-0.17	0.64	4.6			
804	Swamp white oak	12	8	12	14	13	26	14	51	1.50	1.75	1.63	3.25	1.75	6.38	No change	Small increase				1.04	-0.3	4.9			
372	Sweet birch	249	281	359	393	475	737	481	743	1.28	1.40	1.69	2.62	1.71	2.64	Small increase	Large increase	DISP	FTK COL INS	DISE	-1.28	-0.32	3.2			
653	Sweetbay	0	5	3	6	3	69	7	259	0.60	1.20	0.60	13.80	1.40	51.80	NA	New habitat	FTK	INS		1.39	-0.47	5.1			
731	Sycamore	6	10	11	29	14	138	26	222	1.10	2.90	1.40	13.80	2.60	22.20	No change	Large increase				1.28	-0.9	4.8			
71	Tamarack (native)	107	127	98	114	97	152	86	151	0.77	0.90	0.76	1.20	0.68	1.19	Small decrease	No change		FTK COL INS		-0.48	-1.24	3.1			
132	Virginia pine	0	1	1	0	0	45	0	152	1.00	0.00	0.00	45.00	0.00	152.00	NA	New habitat		COL POL		0.1	-0.81	3.8			
541	White ash	1499	1459	1619	1609	1697	1745	1745	1750	1.11	1.10	1.16	1.20	1.20	1.20	No change	No change		INS FTK COL		-2.01	-0.54	2.7			
802	White oak	85	217	218	475	321	1168	377	1644	1.01	2.19	1.48	5.38	1.74	7.58	Small increase	Large increase	EHS ESP	TGR FTK	INS DISE	1.66	1	6.1			
94	White spruce	287	310	254	301	221	198	232	174	0.82	0.97	0.71	0.64	0.75	0.56	Small decrease	Small decrease		INS		0.07	-0.62	3.9			
766	Wild plum	0	0	0	0	0	1	0	4	NA	NA	NA	NA	NA	New	NA	New habitat		COL		0.48	-1.34	3.9			
831	Willow oak	0	5	2	2	3	2	3	5	0.40	0.40	0.60	0.40	0.60	1.00	NA	NA	SES TGR	COL		0.63	-0.01	4.7			
971	Winged elm	0	0	0	0	0	5	0	154	NA	NA	NA	New	NA	New	NA	New habitat		INS DISE		-0.58	-0.3	3.6			
371	Yellow birch	1909	1842	1822	1551	1664	883	1582	659	0.99	0.84	0.90	0.48	0.86	0.36	No change	Large decrease	DISP	FTK INS DISE		-1.38	-0.03	3.4			
621	Yellow-poplar	2	11	24	53	52	294	66	500	2.18	4.82	4.73	26.73	6.00	45.46	Small increase	Large increase	SES DISP	EHS	INP	0.13	1.26	5.3			

\*\*Some evidence of it in the region but very rare