

MidAtlantic Erie and Ontario Lake Plain (#2)
(summary of TreeAtlas results 2015-see companion file for keys to interpret)
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FIA	Common Name	Current IV		DISTRIB Results (suitable habitat)												Change Class 2070-2099		Modifying Factors				
		FIA IV	Current Modeled	Modeled IV						Future : Current						PCM B1	GFDL A1FI	Positive Traits	Negative Traits	DistFact	BioFact	Adapt
				2010 - 2039		2040 - 2069		2070 - 2099		2010 - 2039		2040 - 2069		2070 - 2099								
PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI			
951	American basswood	156	157	134	138	124	93	118	64	0.85	0.88	0.79	0.59	0.75	0.41	Small decrease	Large decrease	COL	FTK	0.31	0.16	4.6
531	American beech	257	334	284	239	269	179	261	125	0.85	0.72	0.81	0.54	0.78	0.37	Small decrease	Large decrease	COL	INS FTK	-1.14	0.03	3.6
972	American elm	286	327	298	379	300	427	311	420	0.91	1.16	0.92	1.31	0.95	1.28	No Change	Small increase	EHS	DISE INS	-0.8	0.3	4.0
391	American hornbeam:musc	153	135	130	138	127	135	126	136	0.96	1.02	0.94	1.00	0.93	1.01	No Change	No Change	COL SES	FTK DRO	0.56	0.62	5.1
43	Atlantic white-cedar	8	0	4	4	4	4	4	4	0.50	0.50	0.50	0.50	0.50	0.50	No Change	No Change	DISP	FTK DRO EHS	-0.61	-1.21	3.0
12	Balsam fir	4	20	6	3	5	3	5	3	0.30	0.15	0.25	0.15	0.25	0.15	Large decrease	Large decrease	COL	INS FTK DRO	-3	-0.35	2.7
743	Bigtooth aspen	47	85	76	77	82	27	79	5	0.89	0.91	0.97	0.32	0.93	0.06	No Change	Large decrease	FRG DISP	COL DRO FTK	1.01	0.16	5.1
402	Bitternut hickory	19	17	19	51	20	78	19	86	1.12	3.00	1.18	4.59	1.12	5.06	No Change	Large increase	DRO	COL	2.17	-0.83	5.6
543	Black ash	110	82	56	22	43	7	32	5	0.68	0.27	0.52	0.09	0.39	0.06	Large decrease	Large decrease	INS COL DISP DRO SES FTK ESP		-1.31	-3	1.7
762	Black cherry	553	525	545	564	576	315	583	187	1.04	1.07	1.10	0.60	1.11	0.36	No Change	Large decrease	DRO EHS	INS FTK COL	-1.56	-0.32	3.0
408	Black hickory	0	0	0	0	0	74	0	181	NA	NA	NA	New	NA	New	NA	New habitat	EHS COL	1.04	-2.27	4.1	
901	Black locust	48	62	83	110	107	152	107	173	1.34	1.77	1.73	2.45	1.73	2.79	Small increase	Large increase		COL INS	0	-0.59	3.8
837	Black oak	14	98	77	118	105	227	114	333	0.79	1.20	1.07	2.32	1.16	3.40	No Change	Large increase	DRO EHS	INS DISE	0.51	0.42	4.9
602	Black walnut	39	54	60	132	88	180	100	191	1.11	2.44	1.63	3.33	1.85	3.54	Small increase	Large increase	SES	COL DRO	0.35	-0.83	4.0
922	Black willow	185	152	136	156	127	155	137	176	0.90	1.03	0.84	1.02	0.90	1.16	No Change	No Change		COL FTK DRO	-0.31	-2.13	2.8
693	Blackgum	18	15	27	33	42	65	47	71	1.80	2.20	2.80	4.33	3.13	4.73	Large increase	Large increase	COL FTK		1.46	0.83	5.9
824	Blackjack oak	0	0	0	0	0	72	0	201	NA	NA	NA	New	NA	New	NA	New habitat	DRO SES FRG VRE	COL FTK	1.56	0.21	5.6
313	Boxelder	99	97	95	123	99	130	107	146	0.98	1.27	1.02	1.34	1.10	1.51	No Change	Small increase	SES DISP	DRO COL FTK TGR	2.39	2.06	7.4
823	Bur oak	16	9	7	21	6	34	5	58	0.78	2.33	0.67	3.78	0.56	6.44	Small decrease	Small increase		DRO FTK	2.77	-0.16	6.4
601	Butternut	20	20	18	14	16	4	15	1	0.90	0.70	0.80	0.20	0.75	0.05	Small decrease	Large decrease		FTK COL DRO DISE	-1.41	-1.27	2.3
973	Cedar elm	0	0	0	0	0	0	0	17	NA	NA	NA	NA	NA	New	NA	New habitat		DISE	-0.27	-1.17	3.3
832	Chestnut oak	9	76	82	121	132	168	135	130	1.08	1.59	1.74	2.21	1.78	1.71	Small increase	Small increase	SES VRE EHS FTK	INS DISE	1.39	1.29	6.1
826	Chinkapin oak	1	0	1	21	1	84	1	96	1.00	21.00	1.00	84.00	1.00	96.00	No Change	Large increase	TGR		1.18	-0.66	4.8
763	Chokecherry	83	87	80	38	65	4	64	2	0.92	0.44	0.75	0.05	0.74	0.02	Small decrease	Large decrease		COL	0.18	-0.86	3.8
521	Common persimmon	0	0	0	0	0	85	0	160	NA	NA	NA	New	NA	New	NA	New habitat	COL EHS		1.18	0.95	5.8
651	Cucumbertree	16	0	12	3	11	2	12	2	0.75	0.19	0.69	0.13	0.75	0.13	Small decrease	Large decrease		FTK	0.03	-1.05	3.6
742	Eastern cottonwood	98	72	81	128	74	216	76	249	1.13	1.78	1.03	3.00	1.06	3.46	No Change	Large increase	TGR	INS COL DISE FTK	0.22	-0.75	3.9
261	Eastern hemlock	209	241	206	159	188	97	183	80	0.86	0.66	0.78	0.40	0.76	0.33	Small decrease	Large decrease	COL	INS DRO	-1.34	-0.88	2.7
701	Eastern hophornbeam	133	173	158	170	152	159	154	162	0.91	0.98	0.88	0.92	0.89	0.94	No Change	No Change	COL EHS TGR		1.72	1.29	6.4
68	Eastern red cedar	14	23	34	183	67	374	82	436	1.48	7.96	2.91	16.26	3.57	18.96	Large increase	Large increase	DRO	FTK COL INS	0.56	-1.48	3.9
471	Eastern redbud	0	1	1	86	11	195	27	226	1.00	86.00	11.00	195.00	27.00	226.00	Large increase	Large increase			0.9	-0.03	4.9

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				2010 - 2039		2040 - 2069		2070 - 2099		2010 - 2039		2040 - 2069		2070 - 2099									
PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI				
129	Eastern white pine	101	221	163	201	171	143	173	84	0.74	0.91	0.77	0.65	0.78	0.38	Small decrease	Large decrease	DISP	DRO FTK INS	-1.97	0.13	3.3	
491	Flowering dogwood	31	48	84	145	122	216	129	229	1.75	3.02	2.54	4.50	2.69	4.77	Large increase	Large increase	COL		0.07	0.95	5.0	
379	Gray birch	8	31	12	13	9	5	12	7	0.39	0.42	0.29	0.16	0.39	0.23	Large decrease	Large decrease	DISP EHS	FTK COL INS DISE	-1.14	0.03	3.6	
544	Green ash	190	133	136	170	125	213	123	258	1.02	1.28	0.94	1.60	0.93	1.94	No Change	Small increase		INS FTK COL	-0.13	-0.25	4.0	
462	Hackberry	0	13	11	99	28	196	38	233	0.85	7.62	2.15	15.08	2.92	17.92	Large increase	Large increase	DRO	FTK	1.66	0.3	5.7	
552	Honeylocust	0	8	6	77	10	154	17	211	0.75	9.63	1.25	19.25	2.13	26.38	No Change	Large increase		COL	1.91	-0.54	5.5	
105	Jack pine	1	5	1	2	0	0	0	0	0.20	0.40	0.00	0.00	0.00	0.00	No Change	No Change	DRO	COL INS	1.87	-1.24	5.2	
131	Loblolly pine	0	0	0	1	0	4	0	10	NA	NA	NA	New	NA	New	NA	New habitat	EHS	INS INP DRO COL	-0.51	-0.66	3.4	
409	Mockernut hickory	68	94	76	112	90	150	92	164	0.81	1.19	0.96	1.60	0.98	1.75	No Change	Small increase		FTK	1.69	-0.28	5.4	
452	Northern catalpa	0	2	0	0	0	0	0	5	0.00	0.00	0.00	0.00	0.00	2.50	NA	No Change		COL EHS	0.93	-1.58	4.2	
833	Northern red oak	110	254	225	345	245	384	255	315	0.89	1.36	0.97	1.51	1.00	1.24	No Change	Small increase		INS	1.39	0.13	5.4	
241	Northern white-cedar	18	36	9	1	5	3	4	6	0.25	0.03	0.14	0.08	0.11	0.17	Large decrease	Large decrease	COL	FTK	-0.7	0.49	4.2	
331	Ohio buckeye**	0	0	3	25	5	29	13	14	NA	New	New	New	New	New	New habitat	New habitat	COL	SES FTK	0.38	-1.92	3.5	
641	Osage-orange	3	12	8	38	13	56	16	61	0.67	3.17	1.08	4.67	1.33	5.08	Small increase	Large increase	EHS ESP		2.32	0.33	6.3	
375	Paper birch	2	30	16	8	8	0	6	0	0.53	0.27	0.27	0.00	0.20	0.00	Large decrease	Large decrease	FRG DISP EHS	FTK COL INS DRO	-1.72	0.18	3.4	
367	Pawpaw	0	0	0	6	3	23	7	30	NA	New	NA	New	New	New	New habitat	New habitat	COL	DRO	-0.48	-0.32	3.7	
404	Pecan	0	52	0	0	0	14	0	32	0.00	0.00	0.00	0.27	0.00	0.62	NA	NA		FTK INS COL	-1.24	-1.7	2.2	
403	Pignut hickory	68	102	89	129	108	175	113	175	0.87	1.27	1.06	1.72	1.11	1.72	No Change	Small increase	EHS	INS DRO	0.22	0.4	4.7	
761	Pin cherry	26	22	23	8	15	4	14	3	1.05	0.36	0.68	0.18	0.64	0.14	Small decrease	Large decrease	SES FRG FTK	COL	0.45	-0.68	4.2	
830	Pin oak	0	20	36	58	47	85	47	93	1.80	2.90	2.35	4.25	2.35	4.65	Large increase	Large increase		FTK COL INS DISE	-0.65	-1.39	2.8	
126	Pitch pine	2	5	2	4	4	4	4	4	0.40	0.80	0.80	0.80	0.80	0.80	No Change	No Change		COL INS	0.56	-1.79	3.8	
835	Post oak	0	0	0	2	1	300	1	668	NA	NA	NA	New	NA	New	NA	New habitat		DRO TGR FTK	COL INS DISE	2.17	-0.59	5.7
746	Quaking aspen	178	216	173	69	129	5	102	4	0.80	0.32	0.60	0.02	0.47	0.02	Large decrease	Large decrease	TGR FRG EHS	COL DRO FTK	0.56	0.01	4.7	
316	Red maple	711	805	795	723	796	549	792	439	0.99	0.90	0.99	0.68	0.98	0.55	No Change	Small decrease	SES EHS ESP COL DISP		3	3	8.5	
682	Red mulberry	0	0	0	67	2	127	6	163	NA	New	NA	New	New	New	New habitat	New habitat	COL DISP	FTK	0.07	0.59	4.7	
125	Red pine	41	72	45	34	42	5	41	4	0.63	0.47	0.58	0.07	0.57	0.06	Small decrease	Large decrease		INS COL DISP	0.86	-2.42	3.9	
97	Red spruce	7	11	7	4	5	3	4	3	0.64	0.36	0.46	0.27	0.36	0.27	Large decrease	Large decrease	EHS COL	FTK SES	-1.28	-0.62	2.9	
977	Rock elm	1	6	1	4	1	6	2	22	0.17	0.67	0.17	1.00	0.33	3.67	Small decrease	No Change		EHS ESP SES	-0.2	-2.61	2.8	
931	Sassafras	10	41	54	84	82	125	93	144	1.32	2.05	2.00	3.05	2.27	3.51	Large increase	Large increase		COL FTK	0.48	-0.64	4.2	
806	Scarlet oak	5	16	22	37	43	76	45	87	1.38	2.31	2.69	4.75	2.81	5.44	Large increase	Large increase	VRE EHS ESP	INS DISE FTK	-0.35	0.71	4.6	
356	Serviceberry	66	55	68	65	67	54	66	48	1.24	1.18	1.22	0.98	1.20	0.87	Small increase	No Change	COL SES	DRO	-0.38	0.98	4.8	
407	Shagbark hickory	20	46	33	79	42	157	46	148	0.72	1.72	0.91	3.41	1.00	3.22	No Change	Large increase		INS FTK	-0.2	0.37	4.4	
405	Shellbark hickory	0	0	0	2	0	33	0	37	NA	NA	NA	New	NA	New	NA	New habitat	COL	FTK EHS	-0.48	-0.3	3.7	

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817	Shingle oak	0	3	1	14	2	90	2	92	0.33	4.67	0.67	30.00	0.67	30.67	No Change	Large increase	EHS	COL	1.31	-0.74	4.9
110	Shortleaf pine	0	1	0	1	0	15	1	91	0.00	1.00	0.00	15.00	1.00	91.00	No Change	Large increase	EHS	COL INS DRO	0	-0.97	3.6
834	Shumard oak**	0	0	0	0	0	0	0	6	NA	NA	NA	NA	NA	New	NA	New habitat	DRO TGR	COL	2.45	-1.02	5.8
317	Silver maple	96	94	67	200	73	257	76	268	0.71	2.13	0.78	2.73	0.81	2.85	No Change	Large increase	DISP SES COL	DRO FTK	0.13	1.63	5.6
975	Slippery elm	35	66	61	122	86	134	97	142	0.92	1.85	1.30	2.03	1.47	2.15	Small increase	Large increase	COL	FTK DISE	0.03	0.68	4.8
812	Southern red oak	0	0	0	0	0	0	0	29	NA	NA	NA	NA	NA	New	NA	New habitat	TGR		1.21	0.21	5.3
315	Striped maple	27	50	40	42	40	36	40	34	0.80	0.84	0.80	0.72	0.80	0.68	Small decrease	Small decrease	COL SES	DRO	0.96	0.25	5.1
318	Sugar maple	869	790	777	704	729	599	728	424	0.98	0.89	0.92	0.76	0.92	0.54	No Change	Small decrease	COL EHS		0.86	1.34	5.8
461	Sugarberry**	0	0	0	0	0	17	0	76	NA	NA	NA	New	NA	New	NA	New habitat	COL SES	FTK	-0.17	0.64	4.6
804	Swamp white oak	5	22	11	15	14	30	13	24	0.50	0.68	0.64	1.36	0.59	1.09	Small decrease	No Change			1.04	-0.3	4.9
372	Sweet birch	15	84	65	66	84	64	84	48	0.77	0.79	1.00	0.76	1.00	0.57	No Change	Small decrease	DISP	FTK COL INS DISE	-1.28	-0.32	3.2
611	Sweetgum	0	3	1	4	2	26	7	59	0.33	1.33	0.67	8.67	2.33	19.67	No Change	Large increase	VRE EHS	FTK COL DRO	-0.41	0.18	4.1
731	Sycamore	7	17	26	62	40	83	49	90	1.53	3.65	2.35	4.88	2.88	5.29	Large increase	Large increase			1.28	-0.9	4.8
71	Tamarack (native)	6	6	2	2	0	1	0	2	0.33	0.33	0.00	0.17	0.00	0.33	Large decrease	Small decrease		FTK COL INS	-0.48	-1.24	3.1
132	Virginia pine	0	1	6	1	12	35	6	40	6.00	1.00	12.00	35.00	6.00	40.00	Small increase	Large increase		COL POL	0.1	-0.81	3.8
541	White ash	1379	1152	1169	1148	1098	781	1080	526	1.02	1.00	0.95	0.68	0.94	0.46	No Change	Large decrease		INS FTK COL	-2.01	-0.54	2.7
802	White oak	39	155	118	184	148	375	154	404	0.76	1.19	0.96	2.42	0.99	2.61	No Change	Large increase	EHS ESP TGR FTK	INS DISE	1.66	1	6.1
94	White spruce	14	11	5	7	4	4	5	3	0.46	0.64	0.36	0.36	0.46	0.27	Large decrease	Large decrease		INS	0.07	-0.62	3.9
831	Willow oak	0	0	0	0	0	0	0	5	NA	NA	NA	NA	NA	New	NA	New habitat	SES TGR	COL	0.63	-0.01	4.7
971	Winged elm	0	0	0	0	0	21	0	152	NA	NA	NA	New	NA	New	NA	New habitat		INS DISE	-0.58	-0.3	3.6
371	Yellow birch	90	92	83	44	79	24	72	16	0.90	0.48	0.86	0.26	0.78	0.17	Small decrease	Large decrease	DISP	FTK INS DISE	-1.38	-0.03	3.4
621	Yellow-poplar	26	22	48	63	74	82	82	81	2.18	2.86	3.36	3.73	3.73	3.68	Large increase	Large increase	SES DISP EHS	INP	0.13	1.26	5.3

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