

MidAtlantic Northern Allegheny Plateau (#3)
(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								
951	American basswood	235	256	235	250	245	247	240	213	0.92	0.98	0.96	0.97	0.94	0.83	No Change	No Change	COL	FTK	0.31	0.16	4.6
531	American beech	2196	2115	1990	1214	1684	700	1539	570	0.94	0.57	0.80	0.33	0.73	0.27	Small decrease	Large decrease	COL	INS FTK	-1.14	0.03	3.6
421	American chestnut	45	9	29	29	33	27	33	18	3.22	3.22	3.67	3.00	3.67	2.00	No Change	No Change	COL	DISE FTK	0.13	0.3	4.5
972	American elm	213	284	227	593	239	824	257	889	0.80	2.09	0.84	2.90	0.91	3.13	No Change	Large increase	EHS	DISE INS	-0.8	0.3	4.0
391	American hornbeam:musc	340	357	327	349	321	339	315	298	0.92	0.98	0.90	0.95	0.88	0.84	No Change	No Change	COL SES	FTK DRO	0.56	0.62	5.1
935	American mountain-ash	6	0	2	1	1	1	1	1	0.33	0.17	0.17	0.17	0.17	0.17	No Change	No Change		FTK COL EHS	-0.23	-1.62	3.1
12	Balsam fir	9	56	8	4	1	0	1	0	0.14	0.07	0.02	0.00	0.02	0.00	Large decrease	Large decrease	COL	INS FTK DRO	-3	-0.35	2.7
741	Balsam poplar	8	1	1	1	1	0	1	0	1.00	1.00	1.00	0.00	1.00	0.00	No Change	Large decrease	FRG VRE	COL DRO	0.13	-0.59	4.0
816	Bear oak:scrub oak	67	33	52	74	62	86	71	72	1.58	2.24	1.88	2.61	2.15	2.18	Large increase	Large increase	FRG VRE	COL FTK	1.04	-0.81	4.6
743	Bigtooth aspen	244	250	242	262	254	156	253	47	0.97	1.05	1.02	0.62	1.01	0.19	No Change	Large decrease	FRG DISP	COL DRO FTK	1.01	0.16	5.1
402	Bitternut hickory	20	7	8	32	9	98	10	204	1.14	4.57	1.29	14.00	1.43	29.14	No Change	Large increase	DRO	COL	2.17	-0.83	5.6
543	Black ash	16	21	9	8	6	0	6	0	0.43	0.38	0.29	0.00	0.29	0.00	Small decrease	Large decrease		INS COL DISP DRO SES FTK ESP	-1.31	-3	1.7
762	Black cherry	1501	1666	1612	1635	1691	1114	1730	596	0.97	0.98	1.02	0.67	1.04	0.36	No Change	Large decrease	DRO EHS	INS FTK COL	-1.56	-0.32	3.0
408	Black hickory	0	0	0	1	0	112	0	558	NA	NA	NA	New	NA	New	NA	New habitat		EHS COL	1.04	-2.27	4.1
901	Black locust	67	110	154	230	232	416	221	441	1.40	2.09	2.11	3.78	2.01	4.01	Large increase	Large increase		COL INS	0	-0.59	3.8
837	Black oak	156	192	222	395	306	777	336	1245	1.16	2.06	1.59	4.05	1.75	6.48	Small increase	Large increase	DRO EHS	INS DISE	0.51	0.42	4.9
95	Black spruce	7	7	6	2	4	0	2	0	0.86	0.29	0.57	0.00	0.29	0.00	Small decrease	Large decrease	COL EHS DISP	FTK INS DRO	-2.14	1.24	4.3
602	Black walnut	41	35	46	169	72	338	96	391	1.31	4.83	2.06	9.66	2.74	11.17	Large increase	Large increase	SES	COL DRO	0.35	-0.83	4.0
922	Black willow	109	146	98	217	95	241	112	290	0.67	1.49	0.65	1.65	0.77	1.99	Small decrease	Small increase		COL FTK DRO	-0.31	-2.13	2.8
693	Blackgum	82	115	141	234	189	368	211	435	1.23	2.04	1.64	3.20	1.84	3.78	Small increase	Large increase	COL FTK		1.46	0.83	5.9
824	Blackjack oak	0	0	0	0	0	66	0	428	NA	NA	NA	New	NA	New	NA	New habitat	DRO SES FRG VRE	COL FTK	1.56	0.21	5.6
313	Boxelder	54	37	38	68	42	89	48	126	1.03	1.84	1.14	2.41	1.30	3.41	Small increase	Large increase	SES DISP DRO COL TGR	FTK	2.39	2.06	7.4
823	Bur oak	4	2	1	4	2	11	0	50	0.50	2.00	1.00	5.50	0.00	25.00	No Change	Large increase	DRO FTK		2.77	-0.16	6.4
601	Butternut	38	18	24	17	21	4	14	2	1.33	0.94	1.17	0.22	0.78	0.11	No Change	Large decrease		FTK COL DRO DISE	-1.41	-1.27	2.3
973	Cedar elm	0	0	0	0	0	0	0	8	NA	NA	NA	NA	NA	New	NA	New habitat		DISE	-0.27	-1.17	3.3
832	Chestnut oak	479	513	608	707	754	950	761	800	1.19	1.38	1.47	1.85	1.48	1.56	Small increase	Small increase	SES VRE EHS FTK	INS DISE	1.39	1.29	6.1
826	Chinkapin oak	3	0	0	8	0	99	0	225	0.00	2.67	0.00	33.00	0.00	75.00	No Change	Large increase	TGR		1.18	-0.66	4.8
763	Chokecherry	97	102	91	72	99	10	100	1	0.89	0.71	0.97	0.10	0.98	0.01	No Change	Large decrease		COL	0.18	-0.86	3.8
521	Common persimmon	0	0	0	6	0	153	0	545	NA	New	NA	New	NA	New	NA	New habitat	COL EHS		1.18	0.95	5.8
651	Cucumbertree	42	38	43	29	47	22	52	23	1.13	0.76	1.24	0.58	1.37	0.61	Small increase	Small decrease		FTK	0.03	-1.05	3.6
742	Eastern cottonwood	17	20	12	85	14	253	19	525	0.60	4.25	0.70	12.65	0.95	26.25	No Change	Large increase	TGR	INS COL DISE FTK	0.22	-0.75	3.9
261	Eastern hemlock	1002	977	922	917	871	593	883	440	0.94	0.94	0.89	0.61	0.90	0.45	No Change	Large decrease	COL	INS DRO	-1.34	-0.88	2.7

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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						
701	Eastern hophornbeam	518	515	482	462	448	475	426	478	0.94	0.90	0.87	0.92	0.83	0.93	No Change	No Change	COL EHS TGR			1.72	1.29	6.4
68	Eastern red cedar	55	39	56	157	66	705	83	1018	1.44	4.03	1.69	18.08	2.13	26.10	Large increase	Large increase	DRO	FTK COL INS	0.56	-1.48	3.9	
471	Eastern redbud	1	0	2	25	6	291	11	414	2.00	25.00	6.00	291.00	11.00	414.00	Large increase	Large increase			0.9	-0.03	4.9	
129	Eastern white pine	688	645	613	668	575	625	568	452	0.95	1.04	0.89	0.97	0.88	0.70	No Change	Small decrease	DISP	DRO FTK INS	-1.97	0.13	3.3	
491	Flowering dogwood	94	111	152	452	269	927	311	1016	1.37	4.07	2.42	8.35	2.80	9.15	Large increase	Large increase	COL		0.07	0.95	5.0	
379	Gray birch	96	76	71	88	67	58	77	45	0.93	1.16	0.88	0.76	1.01	0.59	No Change	Small decrease	DISP EHS	FTK COL INS DISE	-1.14	0.03	3.6	
544	Green ash	53	40	39	47	42	73	46	149	0.98	1.18	1.05	1.83	1.15	3.73	No Change	Large increase		INS FTK COL	-0.13	-0.25	4.0	
462	Hackberry	2	6	3	95	7	356	11	503	0.50	15.83	1.17	59.33	1.83	83.83	No Change	Large increase	DRO	FTK	1.66	0.3	5.7	
552	Honeylocust	3	3	2	40	4	252	5	542	0.67	13.33	1.33	84.00	1.67	180.67	No Change	Large increase		COL	1.91	-0.54	5.5	
105	Jack pine	2	8	1	1	0	0	0	0	0.13	0.13	0.00	0.00	0.00	0.00	Large decrease	Large decrease	DRO	COL INS	1.87	-1.24	5.2	
131	Loblolly pine	0	1	1	1	1	4	4	56	1.00	1.00	1.00	4.00	4.00	56.00	Small increase	Large increase	EHS	INS INP DRO COL	-0.51	-0.66	3.4	
409	Mockernut hickory	92	143	114	190	164	348	165	464	0.80	1.33	1.15	2.43	1.15	3.25	No Change	Large increase		FTK	1.69	-0.28	5.4	
319	Mountain maple	17	4	3	2	2	0	1	0	0.75	0.50	0.50	0.00	0.25	0.00	Small decrease	Large decrease	COL VRE EHS		0.8	1.48	5.9	
452	Northern catalpa	2	3	0	0	0	0	0	5	0.00	0.00	0.00	0.00	0.00	1.67	Large decrease	No Change		COL EHS	0.93	-1.58	4.2	
833	Northern red oak	900	917	975	1004	965	1083	970	1055	1.06	1.10	1.05	1.18	1.06	1.15	No Change	No Change		INS	1.39	0.13	5.4	
241	Northern white-cedar	7	25	5	0	3	0	2	0	0.20	0.00	0.12	0.00	0.08	0.00	Large decrease	Large decrease	COL	FTK	-0.7	0.49	4.2	
331	Ohio buckeye**	0	0	0	4	0	12	1	8	NA	New	NA	New	New	NA		New habitat	COL	SES FTK	0.38	-1.92	3.5	
641	Osage-orange	1	2	3	24	4	93	5	118	1.50	12.00	2.00	46.50	2.50	59.00	No Change	Large increase	EHS ESP		2.32	0.33	6.3	
375	Paper birch	84	89	68	38	37	1	32	0	0.76	0.43	0.42	0.01	0.36	0.00	Large decrease	Large decrease	FRG DISP EHS	FTK COL INS DRO	-1.72	0.18	3.4	
367	Pawpaw	0	0	1	6	2	25	3	29	NA	New	NA	New	NA	New	NA		New habitat	COL	DRO	-0.48	-0.32	3.7
404	Pecan	0	151	0	0	1	14	1	75	0.00	0.00	0.01	0.09	0.01	0.50	NA	NA		FTK INS COL	-1.24	-1.7	2.2	
403	Pignut hickory	100	156	138	245	203	418	229	478	0.89	1.57	1.30	2.68	1.47	3.06	Small increase	Large increase	EHS	INS DRO	0.22	0.4	4.7	
761	Pin cherry	75	74	64	17	55	1	48	1	0.87	0.23	0.74	0.01	0.65	0.01	Small decrease	Large decrease	SES FRG FTK	COL	0.45	-0.68	4.2	
830	Pin oak	25	10	17	28	21	47	22	51	1.70	2.80	2.10	4.70	2.20	5.10	No Change	Small increase		FTK COL INS DISE	-0.65	-1.39	2.8	
126	Pitch pine	59	29	44	57	46	72	47	81	1.52	1.97	1.59	2.48	1.62	2.79	Small increase	Large increase		COL INS	0.56	-1.79	3.8	
835	Post oak	0	0	0	7	1	384	2	1644	NA	New	NA	New	NA	New	NA		New habitat	DRO TGR FTK	COL INS DISE	2.17	-0.59	5.7
746	Quaking aspen	462	528	435	310	363	22	331	0	0.82	0.59	0.69	0.04	0.63	0.00	Small decrease	Large decrease	TGR FRG EHS	COL DRO FTK	0.56	0.01	4.7	
316	Red maple	3340	3247	3395	3184	3401	2390	3405	1581	1.05	0.98	1.05	0.74	1.05	0.49	No Change	Large decrease	SES EHS ESP COL	DISP	3	3	8.5	
682	Red mulberry	0	1	0	39	1	261	3	493	0.00	39.00	1.00	261.00	3.00	493.00	No Change	Large increase	COL DISP	FTK	0.07	0.59	4.7	
125	Red pine	122	130	95	95	80	15	74	1	0.73	0.73	0.62	0.12	0.57	0.01	Small decrease	Large decrease		INS COL DISP	0.86	-2.42	3.9	
97	Red spruce	33	46	16	26	18	11	20	8	0.35	0.57	0.39	0.24	0.44	0.17	Large decrease	Large decrease	EHS COL	FTK SES	-1.28	-0.62	2.9	

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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					
373	River birch	4	2	1	2	1	2	2	3	0.50	1.00	0.50	1.00	1.00	1.50	No Change	No Change	DISP	FTK COL DRO	-0.45	-0.32	3.7
977	Rock elm	1	0	1	1	0	1	1	11	1.00	1.00	0.00	1.00	1.00	11.00	No Change	Large increase		EHS ESP SES	-0.2	-2.61	2.8
931	Sassafras	148	166	204	285	287	465	322	526	1.23	1.72	1.73	2.80	1.94	3.17	Small increase	Large increase		COL FTK	0.48	-0.64	4.2
806	Scarlet oak	101	89	134	195	198	332	198	452	1.51	2.19	2.23	3.73	2.23	5.08	Large increase	Large increase	VRE EHS ESP	INS DISE FTK	-0.35	0.71	4.6
356	Serviceberry	380	356	364	351	364	301	362	257	1.02	0.99	1.02	0.85	1.02	0.72	No Change	Small decrease	COL SES	DRO	-0.38	0.98	4.8
407	Shagbark hickory	44	30	41	87	48	215	52	296	1.37	2.90	1.60	7.17	1.73	9.87	Small increase	Large increase		INS FTK	-0.2	0.37	4.4
405	Shellbark hickory	1	0	0	1	0	7	0	15	0.00	1.00	0.00	7.00	0.00	15.00	No Change	Large increase	COL	FTK EHS	-0.48	-0.3	3.7
817	Shingle oak	3	0	0	6	2	54	2	121	0.00	2.00	0.67	18.00	0.67	40.33	No Change	Large increase	EHS	COL	1.31	-0.74	4.9
110	Shortleaf pine	0	4	3	8	3	94	5	436	0.75	2.00	0.75	23.50	1.25	109.00	No Change	Large increase	EHS	COL INS DRO	0	-0.97	3.6
834	Shumard oak**	0	0	0	0	0	0	0	8	NA	NA	NA	NA	NA	New	NA	New habitat	DRO TGR	COL	2.45	-1.02	5.8
317	Silver maple	34	47	23	97	26	191	30	237	0.49	2.06	0.55	4.06	0.64	5.04	Small decrease	Large increase	DISP SES COL	DRO FTK	0.13	1.63	5.6
975	Slippery elm	57	66	63	164	89	261	115	314	0.96	2.49	1.35	3.96	1.74	4.76	Small increase	Large increase	COL	FTK DISE	0.03	0.68	4.8
711	Sourwood	1	1	8	3	24	3	8	13	8.00	3.00	24.00	3.00	8.00	13.00	Small increase	Large increase	COL EHS		2.59	0.98	6.9
812	Southern red oak	0	0	0	0	0	13	0	100	NA	NA	NA	New	NA	New	NA	New habitat	TGR		1.21	0.21	5.3
315	Striped maple	403	420	400	330	386	230	365	184	0.95	0.79	0.92	0.55	0.87	0.44	No Change	Large decrease	COL SES	DRO	0.96	0.25	5.1
318	Sugar maple	2409	2513	2252	1796	2010	1628	1950	1362	0.90	0.72	0.80	0.65	0.78	0.54	Small decrease	Small decrease	COL EHS		0.86	1.34	5.8
461	Sugarberry**	0	1	0	0	0	12	0	105	0.00	0.00	0.00	12.00	0.00	105.00	No Change	Large increase	COL SES	FTK	-0.17	0.64	4.6
804	Swamp white oak	22	4	11	14	16	18	17	17	2.75	3.50	4.00	4.50	4.25	4.25	Small increase	Small increase			1.04	-0.3	4.9
372	Sweet birch	689	675	771	724	824	597	811	426	1.14	1.07	1.22	0.88	1.20	0.63	Small increase	Small decrease	DISP	FTK COL INS DISE	-1.28	-0.32	3.2
611	Sweetgum	2	1	4	13	5	59	14	209	4.00	13.00	5.00	59.00	14.00	209.00	Large increase	Large increase	VRE EHS	FTK COL DRO	-0.41	0.18	4.1
731	Sycamore	28	9	17	72	21	206	31	220	1.89	8.00	2.33	22.89	3.44	24.44	No Change	Large increase			1.28	-0.9	4.8
71	Tamarack (native)	26	12	6	8	4	0	3	0	0.50	0.67	0.33	0.00	0.25	0.00	Small decrease	Large decrease		FTK COL INS	-0.48	-1.24	3.1
132	Virginia pine	12	26	24	19	37	154	25	228	0.92	0.73	1.42	5.92	0.96	8.77	No Change	Large increase		COL POL	0.1	-0.81	3.8
541	White ash	2113	2078	1942	1943	1859	1747	1847	1348	0.94	0.94	0.90	0.84	0.89	0.65	No Change	Small decrease		INS FTK COL	-2.01	-0.54	2.7
802	White oak	545	473	617	769	690	1179	711	1648	1.30	1.63	1.46	2.49	1.50	3.48	Small increase	Large increase	EHS ESP TGR FTK	INS DISE	1.66	1	6.1
94	White spruce	34	33	17	7	10	2	8	1	0.52	0.21	0.30	0.06	0.24	0.03	Large decrease	Large decrease		INS	0.07	-0.62	3.9
971	Winged elm	1	0	0	1	0	40	0	349	0.00	1.00	0.00	40.00	0.00	349.00	No Change	Large increase		INS DISE	-0.58	-0.3	3.6
371	Yellow birch	338	377	358	279	358	128	370	111	0.95	0.74	0.95	0.34	0.98	0.29	No Change	Large decrease		FTK INS DISE	-1.38	-0.03	3.4
621	Yellow-poplar	60	104	152	193	260	407	279	399	1.46	1.86	2.50	3.91	2.68	3.84	Large increase	Large increase	SES DISP EHS	INP	0.13	1.26	5.3

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