

MidAtlantic Western Allegheny Plateau (#1)
(summary of TreeAtlas results 2015-see companion file for keys to interpret)
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FIA	Common Name	DISTRIB Results (suitable habitat)																				Modifying Factors				
		Current IV		Modeled IV						Future : Current						Change Class 2070-2099										
		FIA IV	Current Modeled	2010 - 2039		2040 - 2069		2070 - 2099		2010 - 2039		2040 - 2069		2070 - 2099		PCM B1	GFDL A1FI	Positive Traits	Negative Traits	DistFact	BioFact	Adapt				
951	American basswood	100	109	99	100	106	69	105	47	0.91	0.92	0.97	0.63	0.96	0.43	No Change	Large decrease	COL	FTK	0.31	0.16	4.6				
531	American beech	558	592	518	326	455	222	426	150	0.88	0.55	0.77	0.38	0.72	0.25	Small decrease	Large decrease	COL	INS FTK	-1.14	0.03	3.6				
421	American chestnut	8	3	5	4	5	2	5	1	1.67	1.33	1.67	0.67	1.67	0.33	No Change	No Change	COL	DISE FTK	0.13	0.3	4.5				
972	American elm	229	292	240	370	232	449	234	409	0.82	1.27	0.80	1.54	0.80	1.40	No Change	Small increase	EHS	DISE INS	-0.8	0.3	4.0				
391	American hornbeam:muscle	162	167	148	152	152	133	159	130	0.89	0.91	0.91	0.80	0.95	0.78	No Change	Small decrease	COL SES	FTK DRO	0.56	0.62	5.1				
816	Bear oak:scrub oak	2	8	3	9	3	12	5	14	0.38	1.13	0.38	1.50	0.63	1.75	No Change	No Change	FRG VRE	COL FTK	1.04	-0.81	4.6				
743	Bigtooth aspen	201	177	175	117	151	24	138	0	0.99	0.66	0.85	0.14	0.78	0.00	Small decrease	Large decrease	FRG DISP	COL DRO FTK	1.01	0.16	5.1				
402	Bitternut hickory	23	8	11	47	18	107	21	122	1.38	5.88	2.25	13.38	2.63	15.25	No Change	Large increase	DRO	COL	2.17	-0.83	5.6				
543	Black ash	7	7	2	2	0	1	2	2	0.29	0.29	0.00	0.14	0.29	0.29	Small decrease	Small decrease		INS COL DISP DRO SES FTK ESP	-1.31	-3	1.7				
762	Black cherry	2117	1767	1761	1157	1525	382	1501	250	1.00	0.66	0.86	0.22	0.85	0.14	No Change	Large decrease	DRO EHS	INS FTK COL	-1.56	-0.32	3.0				
408	Black hickory	0	0	0	29	1	230	3	441	NA	New	NA	New	NA	New	NA	New habitat		EHS COL	1.04	-2.27	4.1				
901	Black locust	168	198	210	206	226	203	213	195	1.06	1.04	1.14	1.03	1.08	0.99	No Change	No Change		COL INS	0	-0.59	3.8				
837	Black oak	160	215	222	397	266	764	289	911	1.03	1.85	1.24	3.55	1.34	4.24	Small increase	Large increase	DRO EHS	INS DISE	0.51	0.42	4.9				
602	Black walnut	72	99	102	175	131	201	153	179	1.03	1.77	1.32	2.03	1.55	1.81	Small increase	Small increase	SES	COL DRO	0.35	-0.83	4.0				
922	Black willow	61	48	30	71	29	100	37	108	0.63	1.48	0.60	2.08	0.77	2.25	Small decrease	Large increase		COL FTK DRO	-0.31	-2.13	2.8				
693	Blackgum	123	162	186	235	232	267	252	288	1.15	1.45	1.43	1.65	1.56	1.78	Small increase	Small increase	COL FTK		1.46	0.83	5.9				
824	Blackjack oak	0	0	1	35	3	241	6	486	NA	New	NA	New	New	New	New habitat	New habitat	DRO SES FRG VRE	COL FTK	1.56	0.21	5.6				
313	Boxelder	39	46	38	46	41	57	43	62	0.83	1.00	0.89	1.24	0.94	1.35	No Change	Small increase	SES DISP DRO COL TGR	FTK	2.39	2.06	7.4				
823	Bur oak	7	0	2	3	2	6	2	19	0.29	0.43	0.29	0.86	0.29	2.71	No Change	Large increase	DRO FTK		2.77	-0.16	6.4				
601	Butternut	11	2	3	2	3	0	2	0	1.50	1.00	1.50	0.00	1.00	0.00	No Change	No Change		FTK COL DRO DISE	-1.41	-1.27	2.3				
973	Cedar elm	0	0	0	0	0	3	0	87	NA	NA	NA	New	NA	New	NA	New habitat		DISE	-0.27	-1.17	3.3				
832	Chestnut oak	167	321	310	353	384	337	377	238	0.97	1.10	1.20	1.05	1.17	0.74	No Change	Small decrease	SES VRE EHS FTK	INS DISE	1.39	1.29	6.1				
826	Chinkapin oak	2	1	6	50	12	121	21	127	6.00	50.00	12.00	121.00	21.00	127.00	Large increase	Large increase	TGR		1.18	-0.66	4.8				
763	Chokecherry	131	76	77	16	75	0	59	0	1.01	0.21	0.99	0.00	0.78	0.00	Small decrease	Large decrease		COL	0.18	-0.86	3.8				
521	Common persimmon	2	0	6	49	13	228	9	373	3.00	24.50	6.50	114.00	4.50	186.50	Large increase	Large increase	COL EHS		1.18	0.95	5.8				
651	Cucumbertree	74	53	70	46	70	27	71	24	1.32	0.87	1.32	0.51	1.34	0.45	Small increase	Large decrease		FTK	0.03	-1.05	3.6				
742	Eastern cottonwood	23	8	10	27	10	58	10	166	1.25	3.38	1.25	7.25	1.25	20.75	No Change	Large increase	TGR	INS COL DISE FTK	0.22	-0.75	3.9				
261	Eastern hemlock	333	341	280	172	233	91	213	73	0.82	0.50	0.68	0.27	0.63	0.21	Small decrease	Large decrease	COL	INS DRO	-1.34	-0.88	2.7				
701	Eastern hophornbeam	130	175	142	151	146	173	149	215	0.81	0.86	0.83	0.99	0.85	1.23	No Change	Small increase	COL EHS TGR		1.72	1.29	6.4				
68	Eastern red cedar	0	8	26	271	46	536	98	599	3.25	33.88	5.75	67.00	12.25	74.88	Large increase	Large increase	DRO	FTK COL INS	0.56	-1.48	3.9				
471	Eastern redbud	2	10	24	82	47	195	57	179	2.40	8.20	4.70	19.50	5.70	17.90	Small increase	Large increase			0.9	-0.03	4.9				
129	Eastern white pine	116	194	151	222	153	121	156	69	0.78	1.14	0.79	0.62	0.80	0.36	No Change	Large decrease	DISP	DRO FTK INS	-1.97	0.13	3.3				

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		Current IV		Modeled IV						Future : Current						Change Class 2070-2099									
		Current FIA IV	Modeled	2010 - 2039		2040 - 2069		2070 - 2099		2010 - 2039		2040 - 2069		2070 - 2099		PCM B1	GFDL A1FI	Positive Traits	Negative Traits	DistFact	BioFact	Adapt			
491	Flowering dogwood	185	241	291	436	387	536	419	487	1.21	1.81	1.61	2.22	1.74	2.02	Small increase	Large increase	COL			0.07	0.95	5.0		
379	Gray birch	2	7	0	2	2	0	2	1	0.00	0.29	0.29	0.00	0.29	0.14	No Change	No Change	DISP EHS	FTK COL INS DISE		-1.14	0.03	3.6		
544	Green ash	50	32	43	50	49	97	49	136	1.34	1.56	1.53	3.03	1.53	4.25	Small increase	Large increase		INS FTK COL		-0.13	-0.25	4.0		
462	Hackberry	9	16	11	75	16	177	22	215	0.69	4.69	1.00	11.06	1.38	13.44	Small increase	Large increase	DRO	FTK		1.66	0.3	5.7		
552	Honeylocust	1	4	4	27	6	64	11	155	1.00	6.75	1.50	16.00	2.75	38.75	No Change	Large increase		COL		1.91	-0.54	5.5		
105	Jack pine	6	0	1	0	1	0	1	0	0.17	0.00	0.17	0.00	0.17	0.00	No Change	No Change	DRO	COL INS		1.87	-1.24	5.2		
131	Loblolly pine	0	0	0	0	0	1	0	52	NA	NA	NA	New	NA	New	NA	New habitat	EHS	INS INP DRO COL		-0.51	-0.66	3.4		
409	Mockernut hickory	70	136	137	196	180	300	183	352	1.01	1.44	1.32	2.21	1.35	2.59	Small increase	Large increase		FTK		1.69	-0.28	5.4		
833	Northern red oak	553	550	527	509	513	464	500	447	0.96	0.93	0.93	0.84	0.91	0.81	No Change	No Change		INS		1.39	0.13	5.4		
331	Ohio buckeye**	0	0	1	17	1	14	5	4	NA	New	NA	New	New	New	New habitat	New habitat	COL	SES FTK		0.38	-1.92	3.5		
641	Osage-orange	9	24	14	44	18	54	22	83	0.58	1.83	0.75	2.25	0.92	3.46	No Change	Large increase	EHS ESP			2.32	0.33	6.3		
375	Paper birch	5	5	2	1	2	0	2	0	0.40	0.20	0.40	0.00	0.40	0.00	Small decrease	Large decrease	FRG DISP EHS	FTK COL INS DRO		-1.72	0.18	3.4		
367	Pawpaw	2	1	6	12	5	10	8	5	6.00	12.00	5.00	10.00	8.00	5.00	Small increase	Small increase	COL	DRO		-0.48	-0.32	3.7		
404	Pecan	0	45	0	0	0	3	0	22	0.00	0.00	0.00	0.07	0.00	0.49	NA	NA		FTK INS COL		-1.24	-1.7	2.2		
403	Pignut hickory	82	154	150	215	198	278	210	274	0.97	1.40	1.29	1.81	1.36	1.78	Small increase	Small increase	EHS	INS DRO		0.22	0.4	4.7		
761	Pin cherry	59	29	35	1	22	1	12	1	1.21	0.03	0.76	0.03	0.41	0.03	Large decrease	Large decrease	SES FRG FTK	COL		0.45	-0.68	4.2		
830	Pin oak	9	24	22	35	27	50	28	41	0.92	1.46	1.13	2.08	1.17	1.71	No Change	Small increase		FTK COL INS DISE		-0.65	-1.39	2.8		
126	Pitch pine	15	14	12	24	12	30	16	33	0.86	1.71	0.86	2.14	1.14	2.36	No Change	Large increase		COL INS		0.56	-1.79	3.8		
835	Post oak	0	3	5	201	15	911	25	1486	1.67	67.00	5.00	303.67	8.33	495.33	Large increase	Large increase	DRO TGR FTK	COL INS DISE		2.17	-0.59	5.7		
746	Quaking aspen	197	147	140	33	97	0	72	0	0.95	0.22	0.66	0.00	0.49	0.00	Large decrease	Large decrease	TGR FRG EHS	COL DRO FTK		0.56	0.01	4.7		
316	Red maple	1840	1738	1725	1368	1655	758	1643	527	0.99	0.79	0.95	0.44	0.95	0.30	No Change	Large decrease	SES EHS ESP COL DISP			3	3	8.5		
682	Red mulberry	0	0	1	28	2	116	3	221	NA	New	NA	New	NA	New	NA	New habitat	COL DISP	FTK		0.07	0.59	4.7		
125	Red pine	27	29	24	30	23	2	21	2	0.83	1.03	0.79	0.07	0.72	0.07	Small decrease	Large decrease		INS COL DISP		0.86	-2.42	3.9		
97	Red spruce	5	1	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	No Change	No Change	EHS COL	FTK SES		-1.28	-0.62	2.9		
977	Rock elm	5	0	3	3	2	7	2	9	0.60	0.60	0.40	1.40	0.40	1.80	No Change	Small increase		EHS ESP SES		-0.2	-2.61	2.8		
931	Sassafras	357	307	357	386	403	388	418	350	1.16	1.26	1.31	1.26	1.36	1.14	Small increase	No Change		COL FTK		0.48	-0.64	4.2		
806	Scarlet oak	73	109	122	156	157	218	160	221	1.12	1.43	1.44	2.00	1.47	2.03	Small increase	Large increase	VRE EHS ESP	INS DISE FTK		-0.35	0.71	4.6		
356	Serviceberry	138	120	120	104	117	83	118	79	1.00	0.87	0.98	0.69	0.98	0.66	No Change	Small decrease	COL SES	DRO		-0.38	0.98	4.8		
407	Shagbark hickory	34	41	40	97	48	154	67	152	0.98	2.37	1.17	3.76	1.63	3.71	Small increase	Large increase		INS FTK		-0.2	0.37	4.4		
817	Shingle oak	25	1	10	26	9	65	10	59	10.00	26.00	9.00	65.00	10.00	59.00	Large increase	Large increase	EHS	COL		1.31	-0.74	4.9		
110	Shortleaf pine	0	2	1	34	4	241	17	551	0.50	17.00	2.00	120.50	8.50	275.50	Large increase	Large increase	EHS	COL INS DRO		0	-0.97	3.6		
834	Shumard oak**	0	0	0	0	0	8	0	54	NA	NA	NA	New	NA	New	NA	New habitat	DRO TGR	COL		2.45	-1.02	5.8		

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		PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI										
317	Silver maple	25	46	24	58	19	107	25	121	0.52	1.26	0.41	2.33	0.54	2.63	Small decrease	Large increase	DISP SES COL	DRO FTK	0.13	1.63	5.6			
975	Slippery elm	186	177	179	213	188	201	188	166	1.01	1.20	1.06	1.14	1.06	0.94	No Change	No Change	COL	FTK DISE	0.03	0.68	4.8			
711	Sourwood	1	6	26	1	80	0	58	0	4.33	0.17	13.33	0.00	9.67	0.00	Large increase	Large decrease	COL EHS		2.59	0.98	6.9			
812	Southern red oak	0	0	0	1	0	48	0	196	NA	NA	NA	New	NA	New	NA	New habitat	TGR		1.21	0.21	5.3			
315	Striped maple	64	103	71	52	70	31	66	29	0.69	0.51	0.68	0.30	0.64	0.28	Small decrease	Large decrease	COL SES	DRO	0.96	0.25	5.1			
318	Sugar maple	907	941	915	807	885	575	882	373	0.97	0.86	0.94	0.61	0.94	0.40	No Change	Large decrease	COL EHS		0.86	1.34	5.8			
461	Sugarberry**	0	0	0	0	0	13	0	139	NA	NA	NA	New	NA	New	NA	New habitat	COL SES	FTK	-0.17	0.64	4.6			
804	Swamp white oak	18	16	16	17	17	16	17	6	1.00	1.06	1.06	1.00	1.06	0.38	No Change	Large decrease			1.04	-0.3	4.9			
372	Sweet birch	329	319	328	260	326	144	329	98	1.03	0.82	1.02	0.45	1.03	0.31	No Change	Large decrease	DISP	FTK COL INS DISE	-1.28	-0.32	3.2			
611	Sweetgum	0	0	0	8	1	47	3	125	NA	New	NA	New	NA	New	NA	New habitat	VRE EHS	FTK COL DRO	-0.41	0.18	4.1			
731	Sycamore	23	40	45	84	57	119	61	126	1.13	2.10	1.43	2.98	1.53	3.15	Small increase	Large increase			1.28	-0.9	4.8			
132	Virginia pine	10	25	53	51	98	88	88	102	2.12	2.04	3.92	3.52	3.52	4.08	Large increase	Large increase		COL POL	0.1	-0.81	3.8			
827	Water oak	0	0	0	0	0	0	0	24	0.00	NA	NA	NA	NA	New	NA	New habitat	TGR	FTK COL	-0.17	-0.59	3.7			
541	White ash	687	723	655	635	627	429	655	330	0.91	0.88	0.87	0.59	0.91	0.46	No Change	Large decrease		INS FTK COL	-2.01	-0.54	2.7			
802	White oak	306	385	383	619	430	921	451	882	1.00	1.61	1.12	2.39	1.17	2.29	No Change	Large increase	EHS ESP TGR FTK	INS DISE	1.66	1	6.1			
94	White spruce	13	1	5	1	5	0	3	0	5.00	1.00	5.00	0.00	3.00	0.00	No Change	No Change		INS	0.07	-0.62	3.9			
971	Winged elm	0	0	0	10	0	184	1	579	0.00	New	0.00	New	NA	New	NA	New habitat		INS DISE	-0.58	-0.3	3.6			
371	Yellow birch	130	131	107	33	87	3	79	2	0.82	0.25	0.66	0.02	0.60	0.02	Small decrease	Large decrease	DISP	FTK INS DISE	-1.38	-0.03	3.4			
332	Yellow buckeye	11	6	8	6	8	5	11	5	1.33	1.00	1.33	0.83	1.83	0.83	No Change	No Change	COL	DRO SES FTK EHS DISP	-0.03	-2.13	3.1			
621	Yellow-poplar	268	267	367	327	463	279	483	187	1.38	1.23	1.73	1.05	1.81	0.70	Small increase	Small decrease	SES DISP EHS	INP	0.13	1.26	5.3			

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