

MidAtlantic Piedmont (#5)
(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				
		Current Modeled		Modeled IV						Future : Current												
		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
		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	45	86	57	81	63	75	74	74	0.66	0.94	0.73	0.87	0.86	0.86	No change	No change	COL	FTK	0.31	0.16	2.7
531	American beech	566	548	546	439	526	289	539	224	1.00	0.80	0.96	0.53	0.98	0.41	No change	Large decrease	COL	INS FTK	-1.14	0.03	3.0
421	American chestnut	30	8	23	16	20	12	21	10	2.88	2.00	2.50	1.50	2.63	1.25	No change	No change	COL	DISE FTK	0.13	0.3	3.9
972	American elm	276	371	291	533	298	549	345	536	0.78	1.44	0.80	1.48	0.93	1.45	No change	Small increase	EHS	DISE INS	-0.8	0.3	3.1
591	American holly	0	19	20	37	31	46	34	45	1.05	1.95	1.63	2.42	1.79	2.37	Small increase	Large increase	COL EHS	FTK	-0.1	0.47	3.9
391	American hornbeam:mu	197	204	195	201	197	200	211	206	0.96	0.99	0.97	0.98	1.03	1.01	No change	No change	COL SES	FTK DRO	0.56	0.62	2.9
43	Atlantic white-cedar	0	19	7	7	7	5	7	5	0.37	0.37	0.37	0.26	0.37	0.26	Large decrease	Large decrease	DISP	FTK DRO EHS	-0.61	-1.21	5.2
221	Baldcypress	0	16	13	33	19	41	33	68	0.81	2.06	1.19	2.56	2.06	4.25	No change	Small increase	DISP	FTK	0.38	-1.02	3.6
12	Balsam fir	12	33	15	5	6	1	6	3	0.46	0.15	0.18	0.03	0.18	0.09	Large decrease	Large decrease	COL	INS FTK DRO	-3	-0.35	4.3
816	Bear oak:scrub oak	68	20	44	46	46	51	47	47	2.20	2.30	2.30	2.55	2.35	2.35	Large increase	Large increase	FRG VRE	COL FTK	1.04	-0.81	4.2
743	Bigtooth aspen	78	103	67	60	72	20	66	7	0.65	0.58	0.70	0.19	0.64	0.07	Small decrease	Large decrease	FRG DISP	COL DRO FTK	1.01	0.16	3.9
402	Bitternut hickory	25	35	25	116	33	162	60	188	0.71	3.31	0.94	4.63	1.71	5.37	Small increase	Large increase	DRO	COL	2.17	-0.83	3.8
543	Black ash	13	42	18	16	14	4	11	2	0.43	0.38	0.33	0.10	0.26	0.05	Large decrease	Large decrease		INS COL DISP DRO SES FTK ESP	-1.31	-3	2.4
762	Black cherry	954	920	792	567	687	406	627	379	0.86	0.62	0.75	0.44	0.68	0.41	Small decrease	Large decrease	DRO EHS	INS FTK COL	-1.56	-0.32	3.3
408	Black hickory	0	7	21	179	38	421	52	544	3.00	25.57	5.43	60.14	7.43	77.71	Small increase	Large increase		EHS COL	1.04	-2.27	3.4
901	Black locust	182	192	197	200	207	220	219	189	1.03	1.04	1.08	1.15	1.14	0.98	No change	No change		COL INS	0	-0.59	3.8
837	Black oak	413	520	524	679	543	820	556	806	1.01	1.31	1.04	1.58	1.07	1.55	No change	Small increase	DRO EHS	INS DISE	0.51	0.42	3.9
602	Black walnut	165	182	184	241	211	224	240	170	1.01	1.32	1.16	1.23	1.32	0.93	Small increase	No change	SES	COL DRO	0.35	-0.83	4.2
922	Black willow	48	70	43	145	48	158	61	188	0.61	2.07	0.69	2.26	0.87	2.69	No change	Large increase		COL FTK DRO	-0.31	-2.13	2.7
693	Blackgum	306	322	356	327	360	339	382	380	1.11	1.02	1.12	1.05	1.19	1.18	No change	No change	COL FTK		1.46	0.83	7.4
824	Blackjack oak	0	17	28	140	47	282	70	383	1.65	8.24	2.77	16.59	4.12	22.53	Small increase	Large increase	DRO SES FRG VRE	COL FTK	1.56	0.21	5.1
313	Boxelder	185	159	154	178	162	162	171	169	0.97	1.12	1.02	1.02	1.08	1.06	No change	No change	SES DISP DRO COL TGR	FTK	2.39	2.06	8.5
823	Bur oak	1	8	3	18	3	25	6	35	0.38	2.25	0.38	3.13	0.75	4.38	No change	Small increase	DRO FTK		2.77	-0.16	5.6
601	Butternut	51	34	36	23	31	10	22	8	1.06	0.68	0.91	0.29	0.65	0.24	Small decrease	Large decrease		FTK COL DRO DISE	-1.41	-1.27	5.8
973	Cedar elm	0	0	0	3	0	49	1	114	NA	NA	NA	New	NA	New	NA	New habitat		DISE	-0.27	-1.17	5.9
813	Cherrybark oak	0	7	6	17	7	39	14	78	0.86	2.43	1.00	5.57	2.00	11.14	No change	Large increase		INS FTK	-0.51	0.06	3.5
832	Chestnut oak	730	532	649	466	636	383	624	344	1.22	0.88	1.20	0.72	1.17	0.65	No change	Small decrease	SES VRE EHS FTK	INS DISE	1.39	1.29	4.8
826	Chinkapin oak	3	10	14	53	21	106	30	123	1.40	5.30	2.10	10.60	3.00	12.30	No change	Large increase	TGR		1.18	-0.66	3.7
763	Chokecherry	43	48	33	21	30	1	23	0	0.69	0.44	0.63	0.02	0.48	0.00	Large decrease	Large decrease		COL	0.18	-0.86	3.4
521	Common persimmon	19	33	54	206	82	377	108	491	1.64	6.24	2.49	11.42	3.27	14.88	Large increase	Large increase	COL EHS		1.18	0.95	3.2
742	Eastern cottonwood	40	70	49	143	45	194	63	274	0.70	2.04	0.64	2.77	0.90	3.91	No change	Large increase	TGR	INS COL DISE FTK	0.22	-0.75	3.7
261	Eastern hemlock	320	398	319	272	283	179	280	159	0.80	0.68	0.71	0.45	0.70	0.40	Small decrease	Large decrease	COL	INS DRO	-1.34	-0.88	3.4
701	Eastern hophornbeam	217	241	201	258	205	272	237	326	0.83	1.07	0.85	1.13	0.98	1.35	No change	Small increase	COL EHS TGR		1.72	1.29	3.6
68	Eastern red cedar	275	316	334	497	382	654	428	717	1.06	1.57	1.21	2.07	1.35	2.27	Small increase	Large increase	DRO	FTK COL INS	0.56	-1.48	5.1
471	Eastern redbud	17	31	34	78	50	149	69	181	1.10	2.52	1.61	4.81	2.23	5.84	Large increase	Large increase			0.9	-0.03	4.0
129	Eastern white pine	406	474	386	301	354	171	348	156	0.81	0.64	0.75	0.36	0.73	0.33	Small decrease	Large decrease	DISP	DRO FTK INS	-1.97	0.13	5.6

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		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					
491	Flowering dogwood	316	392	405	478	443	494	468	473	1.03	1.22	1.13	1.26	1.19	1.21	No change	Small increase	COL		0.07	0.95	4.7
379	Gray birch	60	71	50	47	45	39	40	34	0.70	0.66	0.63	0.55	0.56	0.48	Small decrease	Large decrease	DISP EHS	FTK COL INS DISE	-1.14	0.03	2.2
544	Green ash	39	131	75	145	77	179	97	225	0.57	1.11	0.59	1.37	0.74	1.72	Small decrease	Small increase		INS FTK COL	-0.13	-0.25	3.7
462	Hackberry	42	68	51	203	67	256	91	277	0.75	2.99	0.99	3.77	1.34	4.07	Small increase	Large increase	DRO	FTK	1.66	0.3	4.4
552	Honeylocust	5	13	9	71	13	125	17	206	0.69	5.46	1.00	9.62	1.31	15.85	No change	Large increase		COL	1.91	-0.54	4.1
105	Jack pine	0	4	1	2	0	0	0	0	0.25	0.50	0.00	0.00	0.00	0.00	Large decrease	Large decrease	DRO	COL INS	1.87	-1.24	5.4
820	Laurel oak**	0	0	0	0	0	0	5	0	NA	NA	NA	NA	New	NA	New habitat	NA	COL TGR	FTK	0.18	0.13	4.5
131	Loblolly pine	17	51	50	120	91	255	131	565	0.98	2.35	1.78	5.00	2.57	11.08	Large increase	Large increase	EHS	INS INP DRO COL	-0.51	-0.66	4.2
121	Longleaf pine**	0	3	0	2	7	1	39	1	0.00	0.67	2.33	0.33	13.00	0.33	Large increase	NA	FTK	COL	0.96	-1.74	4.6
409	Mockernut hickory	205	250	255	277	269	329	277	355	1.02	1.11	1.08	1.32	1.11	1.42	No change	Small increase		FTK	1.69	-0.28	5.7
319	Mountain maple	12	2	6	2	2	0	2	0	3.00	1.00	1.00	0.00	1.00	0.00	No change	Large decrease	COL VRE EHS	DRO FTK	0.8	1.48	4.9
452	Northern catalpa	13	1	5	5	5	4	5	9	5.00	5.00	5.00	4.00	5.00	9.00	Small increase	Large increase		COL EHS	0.93	-1.58	5.0
833	Northern red oak	820	757	741	673	712	546	701	501	0.98	0.89	0.94	0.72	0.93	0.66	No change	No change		INS	1.39	0.13	5.8
241	Northern white-cedar	8	24	8	7	6	5	6	5	0.33	0.29	0.25	0.21	0.25	0.21	Large decrease	Large decrease	COL	FTK	-0.7	0.49	3.6
331	Ohio buckeye**	0	0	0	3	0	4	2	4	NA	NA	NA	New	NA	New	NA	New habitat	COL	SES FTK	0.38	-1.92	2.7
641	Osage-orange	6	12	12	31	12	36	16	68	1.00	2.58	1.00	3.00	1.33	5.67	No change	Small increase	EHS ESP		2.32	0.33	1.7
822	Overcup oak**	0	7	0	3	1	20	2	38	0.00	0.43	0.14	2.86	0.29	5.43	Small decrease	Small increase		FTK INS DRO	-0.51	-0.95	4.0
375	Paper birch	52	73	54	33	36	2	30	1	0.74	0.45	0.49	0.03	0.41	0.01	Large decrease	Large decrease	FRG DISP EHS	FTK COL INS DRO	-1.72	0.18	5.5
367	Pawpaw	49	29	32	53	39	60	57	63	1.10	1.83	1.35	2.07	1.97	2.17	Small increase	Large increase	COL	DRO	-0.48	-0.32	4.5
404	Pecan	0	137	1	18	3	36	6	69	0.01	0.13	0.02	0.26	0.04	0.50	NA	NA		FTK INS COL	-1.24	-1.7	2.3
403	Pignut hickory	256	317	306	341	326	342	347	299	0.97	1.08	1.03	1.08	1.10	0.94	No change	No change	EHS	INS DRO	0.22	0.4	4.0
761	Pin cherry	32	27	18	13	13	5	15	4	0.67	0.48	0.48	0.19	0.56	0.15	Small decrease	Large decrease	SES FRG FTK	COL	0.45	-0.68	4.1
830	Pin oak	113	96	85	157	94	150	147	133	0.89	1.64	0.98	1.56	1.53	1.39	Small increase	Small increase		FTK COL INS DISE	-0.65	-1.39	5.3
126	Pitch pine	66	106	84	72	74	70	71	74	0.79	0.68	0.70	0.66	0.67	0.70	Small decrease	Small decrease		COL INS	0.56	-1.79	6.3
128	Pond pine	2	0	1	5	1	10	12	11	0.50	2.50	0.50	5.00	6.00	5.50	Large increase	Large increase		DRO COL INS DISP	-1.06	-1.51	5.1
835	Post oak	3	55	117	538	200	1121	248	1483	2.13	9.78	3.64	20.38	4.51	26.96	Large increase	Large increase	DRO TGR FTK	COL INS DISE	2.17	-0.59	4.7
746	Quaking aspen	107	116	88	51	62	8	53	4	0.76	0.44	0.53	0.07	0.46	0.03	Large decrease	Large decrease	TGR FRG EHS	COL DRO FTK	0.56	0.01	2.3
316	Red maple	2039	2112	2001	1591	1905	1097	1856	920	0.95	0.75	0.90	0.52	0.88	0.44	No change	Large decrease	SES EHS ESP COL DISP		3	3	5.9
682	Red mulberry	8	16	9	116	14	189	31	324	0.56	7.25	0.88	11.81	1.94	20.25	No change	Large increase	COL DISP	FTK	0.07	0.59	2.7
125	Red pine	29	55	28	35	31	11	31	9	0.51	0.64	0.56	0.20	0.56	0.16	Small decrease	Large decrease		INS COL DISP	0.86	-2.42	6.4
97	Red spruce	29	28	19	14	12	10	13	9	0.68	0.50	0.43	0.36	0.46	0.32	Large decrease	Large decrease	EHS COL	FTK SES	-1.28	-0.62	6.9
721	Redbay**	0	0	0	0	0	0	6	0	NA	NA	NA	NA	New	NA	New habitat	NA	INS DISP COL		2.59	-0.1	6.3
373	River birch	9	7	4	10	5	10	9	29	0.57	1.43	0.71	1.43	1.29	4.14	No change	Small increase	DISP	FTK COL DRO	-0.45	-0.32	3.8
977	Rock elm	1	1	3	25	3	22	19	25	3.00	25.00	3.00	22.00	19.00	25.00	Large increase	Large increase		EHS ESP SES	-0.2	-2.61	4.8

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		FIA IV	Current Modeled	2010 - 2039		2040 - 2069		2070 - 2099		Future : Current		2010 - 2039		2040 - 2069		2070 - 2099		PCM B1	GFDL A1FI	Positive Traits	Negative Traits	DistFact	BioFact	Adapt		
				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									
931	Sassafras	300	354	351	382	380	365	412	347	0.99	1.08	1.07	1.03	1.16	0.98	No change	No change	COL	FTK	0.48	-0.64	3.9				
806	Scarlet oak	236	214	244	245	260	233	261	203	1.14	1.15	1.22	1.09	1.22	0.95	Small increase	No change	VRE	EHS ESP	INS	DISE	FTK	-0.35	0.71	5.1	
356	Serviceberry	125	102	105	96	105	83	103	79	1.03	0.94	1.03	0.81	1.01	0.78	No change	Small decrease	COL	SES	DRO			-0.38	0.98	4.7	
407	Shagbark hickory	72	122	102	216	127	221	155	219	0.84	1.77	1.04	1.81	1.27	1.80	Small increase	Small increase			INS	FTK		-0.2	0.37	4.2	
405	Shellbark hickory	1	0	0	44	0	67	2	77	0.00	44.00	0.00	67.00	2.00	77.00	NA	Large increase	COL		FTK	EHS		-0.48	-0.3	3.0	
817	Shingle oak	1	9	6	70	11	104	31	121	0.67	7.78	1.22	11.56	3.44	13.44	No change	Large increase	EHS		COL			1.31	-0.74	3.8	
110	Shortleaf pine	1	21	37	134	45	329	55	533	1.76	6.38	2.14	15.67	2.62	25.38	Large increase	Large increase	EHS		COL	INS	DRO	0	-0.97	6.1	
834	Shumard oak**	0	0	0	2	0	17	0	74	NA	NA	NA	New	NA	New	NA	New habitat	DRO	TGR	COL			2.45	-1.02	4.9	
317	Silver maple	65	131	68	279	78	342	122	373	0.52	2.13	0.60	2.61	0.93	2.85	No change	Large increase	DISP	SES	COL		DRO	FTK	0.13	1.63	4.6
111	Slash pine	0	0	0	0	0	0	16	4	NA	NA	NA	NA	New	New	New habitat	New habitat	DISP	FTK	COL	INS		1.14	-1.67	5.3	
975	Slippery elm	54	112	87	148	102	171	119	179	0.78	1.32	0.91	1.53	1.06	1.60	No change	Small increase	COL		FTK	DISE		0.03	0.68	3.9	
711	Sourwood	0	8	14	12	28	8	27	26	1.75	1.50	3.50	1.00	3.38	3.25	No change	No change	COL	EHS				2.59	0.98	4.6	
812	Southern red oak	12	24	43	112	68	246	81	379	1.79	4.67	2.83	10.25	3.38	15.79	Large increase	Large increase	TGR					1.21	0.21	4.9	
315	Striped maple	101	92	88	71	78	46	72	38	0.96	0.77	0.85	0.50	0.78	0.41	Small decrease	Large decrease	COL	SES	DRO			0.96	0.25	6.0	
318	Sugar maple	846	940	877	971	871	686	953	454	0.93	1.03	0.93	0.73	1.01	0.48	No change	Large decrease	COL	EHS				0.86	1.34	4.5	
461	Sugarberry**	0	7	7	42	14	173	24	287	1.00	6.00	2.00	24.71	3.43	41.00	No change	Large increase	COL	SES	FTK			-0.17	0.64	3.2	
825	Swamp chestnut oak	1	0	0	3	0	7	0	10	0.00	3.00	0.00	7.00	0.00	10.00	No change	Large increase	TGR		COL	INS		1.08	-0.81	6.4	
694	Swamp tupelo	0	8	1	8	9	12	46	15	0.13	1.00	1.13	1.50	5.75	1.88	Small increase	No change			DRO	FTK	COL	EHS	-0.65	-1.7	5.6
804	Swamp white oak	46	25	23	48	28	36	38	33	0.92	1.92	1.12	1.44	1.52	1.32	Small increase	Small increase						1.04	-0.3	4.6	
372	Sweet birch	479	425	441	322	412	227	391	184	1.04	0.76	0.97	0.53	0.92	0.43	No change	Large decrease	DISP		FTK	COL	INS	DISE	-1.28	-0.32	4.8
653	Sweetbay	8	13	5	8	9	7	29	7	0.39	0.62	0.69	0.54	2.23	0.54	No change	Small decrease	FTK		INS			1.39	-0.47	3.7	
611	Sweetgum	127	196	221	372	291	493	392	705	1.13	1.90	1.49	2.52	2.00	3.60	Small increase	Large increase	VRE	EHS	FTK	COL	DRO	-0.41	0.18	2.8	
731	Sycamore	78	90	103	135	110	171	123	179	1.14	1.50	1.22	1.90	1.37	1.99	Small increase	Small increase						1.28	-0.9	4.7	
71	Tamarack (native)	15	5	8	5	6	3	5	3	1.60	1.00	1.20	0.60	1.00	0.60	No change	No change			FTK	COL	INS	-0.48	-1.24	6.1	
819	Turkey oak	0	0	0	0	1	0	9	0	NA	NA	NA	NA	New	NA	New habitat	NA	SES	DRO	TGR	COL		2.62	-0.88	5.4	
132	Virginia pine	106	159	168	109	201	107	157	122	1.06	0.69	1.26	0.67	0.99	0.77	No change	Small decrease			COL	POL		0.1	-0.81	5.8	
401	Water hickory	0	5	1	2	0	3	1	7	0.20	0.40	0.00	0.60	0.20	1.40	Small decrease	No change			FTK	EHS		0.86	-2.04	5.7	
827	Water oak	0	3	3	13	7	77	9	218	1.00	4.33	2.33	25.67	3.00	72.67	No change	Large increase	TGR		FTK	COL		-0.17	-0.59	4.9	
691	Water tupelo	11	9	5	8	8	14	14	21	0.56	0.89	0.89	1.56	1.56	2.33	No change	No change			DRO	FTK	COL	EHS	-0.86	-2.05	3.8
722	Water-elm	0	5	2	2	2	2	2	6	0.40	0.40	0.40	0.40	0.40	1.20	NA	NA	COL		FTK	EHS		0.13	-0.83	2.8	
541	White ash	1372	1252	1150	923	1047	634	1072	519	0.92	0.74	0.84	0.51	0.86	0.42	No change	Large decrease			INS	FTK	COL	-2.01	-0.54	4.2	
802	White oak	463	612	642	792	700	869	716	886	1.05	1.29	1.14	1.42	1.17	1.45	No change	Small increase	EHS	ESP	TGR	FTK	INS	DISE	1.66	1	4.6
94	White spruce	34	18	12	14	12	9	8	8	0.67	0.78	0.67	0.50	0.44	0.44	Small decrease	Small decrease			INS			0.07	-0.62	3.6	
831	Willow oak	0	11	11	22	14	77	20	128	1.00	2.00	1.27	7.00	1.82	11.64	No change	Large increase	SES	TGR	COL			0.63	-0.01	4.0	
971	Winged elm	0	6	36	186	67	517	105	828	6.00	31.00	11.17	86.17	17.50	138.00	Large increase	Large increase			INS	DISE		-0.58	-0.3	3.3	
371	Yellow birch	134	137	122	86	98	58	99	51	0.89	0.63	0.72	0.42	0.72	0.37	Small decrease	Large decrease	DISP		FTK	INS	DISE	-1.38	-0.03	4.8	
621	Yellow-poplar	652	593	639	416	641	284	605	254	1.08	0.70	1.08	0.48	1.02	0.43	No change	Large decrease	SES	DISP	EHS	INP		0.13	1.26	2.8	

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