

Central Appalachians (East OH, WV, West MD)
(summary of TreeAtlas results 2013-see companion file for keys to interpret)
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		DISTRIB Results (suitable habitat)																				
		Current IV		Modeled IV						Future : Current						Change Class		Modifying Factors				
FIA	Common Name	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							
951	American basswood	357	335	317	243	296	114	294	97	0.95	0.73	0.88	0.34	0.88	0.29	No Change	Lg. Dec.	COL	FTK	0.31	0.16	4.6
531	American beech	1319	1275	1280	948	1275	647	1272	547	1.00	0.74	1.00	0.51	1.00	0.43	No Change	Lg. Dec.	COL	INS FTK	-1.14	0.03	3.6
421	American chestnut	78	59	66	63	61	56	60	55	1.12	1.07	1.03	0.95	1.02	0.93	No Change	No Change	COL	DISE FTK	0.13	0.3	4.5
972	American elm	1170	1102	1012	1040	892	967	895	751	0.92	0.94	0.81	0.88	0.81	0.68	No Change	Sm. Dec.	EHS	DISE INS	-0.8	0.3	4.0
591	American holly	13	2	5	3	5	2	5	2	2.50	1.50	2.50	1.00	2.50	1.00	No Change	No Change	COL EHS	FTK	-0.1	0.47	4.5
391	American hornbeam	407	403	372	365	367	408	368	421	0.92	0.91	0.91	1.01	0.91	1.05	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	New	New	New	New	New	New	New Habitat	New Habitat	DISP	FTK DRO EHS	-0.61	-1.21	3.0
12	Balsam fir	3	7	7	1	7	1	3	1	1.00	0.14	1.00	0.14	0.43	0.14	Sm. Dec.	Lg. Dec.	COL	INS FTK DRO	-3	-0.35	2.7
816	Bear oak:scrub oak	17	18	12	13	10	14	12	14	0.67	0.72	0.56	0.78	0.67	0.78	No Change	No Change	FRG VRE	COL FTK	1.04	-0.81	4.6
743	Bigtooth aspen	243	251	173	51	121	4	100	0	0.69	0.20	0.48	0.02	0.40	0	Lg. Dec.	Lg. Dec.	FRG DISP	COL DRO FTK	1.01	0.16	5.1
402	Bitternut hickory	56	44	63	219	82	329	110	367	1.43	4.98	1.86	7.48	2.50	8.34	Lg. Inc.	Lg. Inc.	DRO	COL	2.17	-0.83	5.6
543	Black ash	23	20	6	3	3	4	2	5	0.30	0.15	0.15	0.20	0.10	0.25	Lg. Dec.	Lg. Dec.		INS COL DISP DRO SES FTK ESP	-1.31	-3	1.7
762	Black cherry	2163	2337	1864	1094	1577	660	1481	536	0.80	0.47	0.68	0.28	0.63	0.23	Sm. Dec.	Lg. Dec.	DRO EHS	INS FTK COL	-1.56	-0.32	3.0
408	Black hickory	0	7	5	293	11	859	24	1171	0.71	41.86	1.57	122.71	3.43	167.29	No Change	Lg. Inc.		EHS COL	1.04	-2.27	4.1
901	Black locust	904	900	855	789	819	660	781	590	0.95	0.88	0.91	0.73	0.87	0.66	No Change	Sm. Dec.		COL INS	0	-0.59	3.8
314	Black maple	87	47	57	24	54	14	49	14	1.21	0.51	1.15	0.30	1.04	0.30	No Change	Lg. Dec.	COL EHS	FTK	0.48	0.9	5.2
837	Black oak	916	985	978	1559	1018	2203	1037	2118	0.99	1.58	1.03	2.24	1.05	2.15	No Change	Lg. Inc.	DRO EHS	INS DISE	0.51	0.42	4.9
602	Black walnut	434	485	526	559	576	577	609	463	1.09	1.15	1.19	1.19	1.26	0.96	Sm. Inc.	No Change	SES	COL DRO	0.35	-0.83	4.0
922	Black willow	63	56	40	124	36	218	42	223	0.71	2.21	0.64	3.89	0.75	3.98	Sm. Dec.	Lg. Inc.		COL FTK DRO	-0.31	-2.13	2.8
693	Blackgum	703	799	843	867	899	854	910	854	1.06	1.09	1.13	1.07	1.14	1.07	No Change	No Change	COL FTK		1.46	0.83	5.9
824	Blackjack oak	11	8	17	333	24	1088	42	1473	2.13	41.63	3.00	136.00	5.25	184.13	Sm. Inc.	Lg. Inc.	DRO SES FRG VRE	COL FTK	1.56	0.21	5.6
546	Blue ash	8	0	6	5	5	5	5	3	New	New	New	New	New	New	New Habitat	New Habitat		INS DISP FTK COL ESP	-0.41	-2.35	2.7
313	Boxelder	214	222	194	234	211	293	209	284	0.87	1.05	0.95	1.32	0.94	1.28	No Change	Sm. Inc.	SES DISP DRO COL TGR	FTK	2.39	2.06	7.4
823	Bur oak	16	5	7	15	9	54	8	70	1.40	3.00	1.80	10.80	1.60	14.00	No Change	Lg. Inc.	DRO FTK		2.77	-0.16	6.4
601	Butternut	71	10	37	10	25	4	19	0	3.70	1.00	2.50	0.40	1.90	0	No Change	Lg. Dec.		FTK COL DRO DISE	-1.41	-1.27	2.3
973	Cedar elm	0	0	0	0	0	239	0	584	NA	NA	NA	New	NA	New	NA	New Habitat		DISE	-0.27	-1.17	3.3
832	Chestnut oak	1621	1577	1658	1503	1703	1082	1622	979	1.05	0.95	1.08	0.69	1.03	0.62	No Change	Sm. Dec.	SES VRE EHS FTK	INS DISE	1.39	1.29	6.1
826	Chinkapin oak	42	42	73	270	109	327	156	324	1.74	6.43	2.60	7.79	3.71	7.71	Lg. Inc.	Lg. Inc.	TGR		1.18	-0.66	4.8
381	Chittamwood	0	7	0	0	0	2	0	5	0	0	0	0.29	0	0.71	Lg. Dec.	No Change	DRO TGR	FTK COL	1.97	-0.4	5.6
763	Chokecherry	19	32	11	4	8	0	8	0	0.34	0.13	0.25	0	0.25	0	Sm. Dec.	Lg. Dec.		COL	0.18	-0.86	3.8
521	Common persimmon	70	59	97	343	113	571	128	810	1.64	5.81	1.92	9.68	2.17	13.73	Lg. Inc.	Lg. Inc.	COL EHS		1.18	0.95	5.8
651	Cucumber tree	213	173	187	175	186	156	189	151	1.08	1.01	1.08	0.90	1.09	0.87	No Change	No Change		FTK	0.03	-1.05	3.6
742	Eastern cottonwood	58	56	31	89	26	142	31	171	0.55	1.59	0.46	2.54	0.55	3.05	Sm. Dec.	Lg. Inc.	TGR	INS COL DISE FTK	0.22	-0.75	3.9
261	Eastern hemlock	259	325	281	255	278	210	276	196	0.87	0.79	0.86	0.65	0.85	0.60	No Change	Sm. Dec.	COL	INS DRO	-1.34	-0.88	2.7
701	Eastern hophornbeam	420	485	424	459	408	549	411	637	0.87	0.95	0.84	1.13	0.85	1.31	No Change	Sm. Inc.	COL EHS TGR		1.72	1.29	6.4
68	Eastern red cedar	98	193	337	1048	464	1456	590	1648	1.75	5.43	2.40	7.54	3.06	8.54	Lg. Inc.	Lg. Inc.	DRO	FTK COL INS	0.56	-1.48	3.9
471	Eastern redbud	294	295	357	517	406	661	413	556	1.21	1.75	1.38	2.24	1.40	1.89	Sm. Inc.	Sm. Inc.			0.9	-0.03	4.9
129	Eastern white pine	354	446	386	353	378	217	370	196	0.87	0.79	0.85	0.49	0.83	0.44	No Change	Lg. Dec.	DISP	DRO FTK INS	-1.97	0.13	3.3

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FIA	Common Name	DISTRIB Results (suitable habitat)																					
		Current IV			Modeled IV						Future : Current						Change Class		Modifying Factors				
		FIA IV	Current Modeled	2010 - 2039 PCM B1	2010 - 2039 GFDL A1FI	2040 - 2069 PCM B1	2040 - 2069 GFDL A1FI	2070 - 2099 PCM B1	2070 - 2099 GFDL A1FI	2010 - 2039 PCM B1	2010 - 2039 GFDL A1FI	2040 - 2069 PCM B1	2040 - 2069 GFDL A1FI	2070 - 2099 PCM B1	2070 - 2099 GFDL A1FI	PCM B1	GFDL A1FI	Positive Traits	Negative Traits	DistFact	BioFact	Adapt	
491	Flowering dogwood	1625	1571	1686	1724	1723	1440	1730	1141	1.07	1.10	1.10	0.92	1.10	0.73	No Change	Sm. Dec.	COL		0.07	0.95	5.0	
379	Gray birch	1	4	1	0	0	0	0	0	0.25	0	0	0	0	0	Lg. Dec.	Lg. Dec.	DISP EHS	FTK COL INS DISE	-1.14	0.03	3.6	
544	Green ash	88	103	97	206	126	448	145	535	0.94	2.00	1.22	4.35	1.41	5.19	Sm. Inc.	Lg. Inc.		INS FTK COL	-0.13	-0.25	4.0	
462	Hackberry	91	102	122	308	149	418	167	423	1.20	3.02	1.46	4.10	1.64	4.15	Sm. Inc.	Lg. Inc.	DRO	FTK	1.66	0.3	5.7	
552	Honeylocust	86	72	108	179	118	282	124	350	1.50	2.49	1.64	3.92	1.72	4.86	Sm. Inc.	Lg. Inc.		COL	1.91	-0.54	5.5	
131	Loblolly pine	3	15	9	47	39	233	30	563	0.60	3.13	2.60	15.53	2.00	37.53	No Change	Lg. Inc.	EHS	INS INP DRO COL	-0.51	-0.66	3.4	
409	Mockernut hickory	751	838	814	939	846	1048	847	1099	0.97	1.12	1.01	1.25	1.01	1.31	No Change	Sm. Inc.		FTK	1.69	-0.28	5.4	
319	Mountain maple	23	4	9	10	9	10	10	10	2.25	2.50	2.25	2.50	2.50	2.50	No Change	No Change	COL VRE EHS	DRO FTK	0.8	1.48	5.9	
452	Northern catalpa	12	4	3	3	3	7	2	20	0.75	0.75	0.75	1.75	0.50	5.00	Sm. Dec.	Sm. Inc.		COL EHS	0.93	-1.58	4.2	
809	Northern pin oak	6	2	4	3	3	1	3	1	2.00	1.50	1.50	0.50	1.50	0.50	No Change	Sm. Dec.	DRO FTK	COL	2.52	-0.56	6.0	
833	Northern red oak	1397	1400	1313	1322	1260	1206	1244	1099	0.94	0.94	0.90	0.86	0.89	0.79	No Change	Sm. Dec.		INS	1.39	0.13	5.4	
241	Northern white-cedar	0	4	1	1	1	5	1	6	0.25	0.25	0.25	1.25	0.25	1.50	Sm.D	No Change	COL	FTK	-0.7	0.49	4.2	
331	Ohio buckeye	51	32	37	76	41	21	49	5	1.16	2.38	1.28	0.66	1.53	0.16	No Change	Lg. Dec.	COL	SES FTK	0.38	-1.92	3.5	
641	Osage-orange	63	67	67	113	86	159	92	254	1.00	1.69	1.28	2.37	1.37	3.79	Sm. Inc.	Lg. Inc.	EHS ESP		2.32	0.33	6.3	
375	Paper birch	0	3	1	0	1	0	1	0	0.33	0	0.33	0	0.33	0	Sm. Dec.	Lg. Dec.	FRG DISP EHS	FTK COL INS DRO	-1.72	0.18	3.4	
367	Pawpaw	172	132	133	132	146	69	144	51	1.01	1.00	1.11	0.52	1.09	0.39	No Change	Lg. Dec.	COL	DRO	-0.48	-0.32	3.7	
403	Pignut hickory	759	864	848	940	874	810	887	766	0.98	1.09	1.01	0.94	1.03	0.89	No Change	No Change	EHS	INS DRO	0.22	0.4	4.7	
761	Pin cherry	52	18	15	3	10	2	7	2	0.83	0.17	0.56	0.11	0.39	0.11	Sm. Dec.	Lg. Dec.	SES FRG FTK	COL	0.45	-0.68	4.2	
830	Pin oak	128	87	79	131	80	197	79	158	0.91	1.51	0.92	2.26	0.91	1.82	No Change	Sm. Inc.		FTK COL INS DISE	-0.65	-1.39	2.8	
126	Pitch pine	134	138	131	129	131	121	124	129	0.95	0.94	0.95	0.88	0.90	0.94	No Change	No Change		COL INS	0.56	-1.79	3.8	
835	Post oak	47	57	120	1513	176	3340	257	4767	2.11	26.54	3.09	58.60	4.51	83.63	Lg. Inc.	Lg. Inc.	DRO TGR FTK	COL INS DISE	2.17	-0.59	5.7	
746	Quaking aspen	54	82	36	5	22	4	14	3	0.44	0.06	0.27	0.05	0.17	0.04	Lg. Dec.	Lg. Dec.	TGR FRG EHS	COL DRO FTK	0.56	0.01	4.7	
316	Red maple	3395	3501	3240	2390	3179	1664	3114	1299	0.93	0.68	0.91	0.48	0.89	0.37	No Change	Lg. Dec.	SES EHS ESP	COL DISP	3	3	8.5	
682	Red mulberry	13	13	13	129	15	295	23	366	1.00	9.92	1.15	22.69	1.77	28.15	No Change	Lg. Inc.	COL DISP	FTK	0.07	0.59	4.7	
125	Red pine	74	51	42	20	30	10	24	10	0.82	0.39	0.59	0.20	0.47	0.20	Lg. Dec.	Lg. Dec.		INS COL DISP	0.86	-2.42	3.9	
97	Red spruce	67	39	40	20	33	15	34	14	1.03	0.51	0.85	0.39	0.87	0.36	No Change	Lg. Dec.	EHS COL	FTK SES	-1.28	-0.62	2.9	
373	River birch	20	4	11	14	12	16	10	32	2.75	3.50	3.00	4.00	2.50	8.00	No Change	Sm. Inc.	DISP	FTK COL DRO	-0.45	-0.32	3.7	
977	Rock elm	5	1	4	11	3	44	4	20	4.00	11.00	3.00	44.00	4.00	20.00	Sm. Inc.	Lg. Inc.		EHS ESP SES	-0.2	-2.61	2.8	
931	Sassafras	1111	1143	1179	1154	1191	880	1229	820	1.03	1.01	1.04	0.77	1.08	0.72	No Change	Sm. Dec.		COL FTK	0.48	-0.64	4.2	
806	Scarlet oak	514	582	612	705	657	522	646	345	1.05	1.21	1.13	0.90	1.11	0.59	No Change	Sm. Dec.	VRE EHS ESP	INS DISE FTK	-0.35	0.71	4.6	
356	Serviceberry	287	259	269	239	251	227	243	230	1.04	0.92	0.97	0.88	0.94	0.89	No Change	No Change	COL SES	DRO	-0.38	0.98	4.8	
407	Shagbark hickory	144	207	204	408	249	558	277	559	0.99	1.97	1.20	2.70	1.34	2.70	Sm. Inc.	Lg. Inc.		INS FTK	-0.2	0.37	4.4	
817	Shingle oak	31	8	22	125	19	123	35	106	2.75	15.63	2.38	15.38	4.38	13.25	Sm. Inc.	Lg. Inc.	EHS	COL	1.31	-0.74	4.9	
110	Shortleaf pine	40	53	79	467	115	1312	152	1972	1.49	8.81	2.17	24.76	2.87	37.21	Lg. Inc.	Lg. Inc.	EHS	COL INS DRO	0	-0.97	3.6	
834	Shumard oak	1	0	0	7	0	132	0	282	NA	New	NA	New	NA	New	NA	New Habitat	DRO TGR	COL	2.45	-1.02	5.8	
317	Silver maple	183	135	96	222	87	407	98	425	0.71	1.64	0.64	3.02	0.73	3.15	Sm. Dec.	Lg. Inc.	DISP SES COL	DRO FTK	0.13	1.63	5.6	
975	Slippery elm	610	596	590	617	558	529	560	402	0.99	1.04	0.94	0.89	0.94	0.67	No Change	Sm. Dec.	COL	FTK DISE	0.03	0.68	4.8	
711	Sourwood	312	362	400	336	505	275	480	223	1.11	0.93	1.40	0.76	1.33	0.62	Sm. Inc.	Sm. Dec.	COL EHS		2.59	0.98	6.9	
652	Southern magnolia	2	4	4	1	8	2	4	2	1.00	0.25	2.00	0.50	1.00	0.50	No Change	Sm. Dec.	SES COL FTK	DRO EHS	0.56	0.4	4.9	

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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							
812	Southern red oak	11	5	14	136	43	374	54	609	2.80	27.20	8.60	74.80	10.80	121.80	Lg. Inc.	Lg. Inc.	TGR		1.21	0.21	5.3
315	Striped maple	261	226	206	142	179	103	170	95	0.91	0.63	0.79	0.46	0.75	0.42	Sm. Dec.	Lg. Dec.	COL SES	DRO	0.96	0.25	5.1
318	Sugar maple	2817	2601	2700	2226	2681	1068	2700	587	1.04	0.86	1.03	0.41	1.04	0.23	No Change	Lg. Dec.	COL EHS		0.86	1.34	5.8
461	Sugarberry	1	1	0	57	5	328	9	648	0	57.00	5.00	328.0	9.00	648.0	Lg. Inc.	Lg. Inc.	COL SES	FTK	-0.17	0.64	4.6
804	Swamp white oak	59	53	42	51	41	26	43	6	0.79	0.96	0.77	0.49	0.81	0.11	No Change	Lg. Dec.			1.04	-0.3	4.9
372	Sweet birch	440	474	453	353	453	248	451	208	0.96	0.75	0.96	0.52	0.95	0.44	No Change	Lg. Dec.	DISP	FTK COL INS DISE	-1.28	-0.32	3.2
611	Sweetgum	15	8	26	85	51	222	78	357	3.25	10.63	6.38	27.75	9.75	44.63	Lg. Inc.	Lg. Inc.	VRE EHS	FTK COL DRO	-0.41	0.18	4.1
731	Sycamore	277	277	305	346	310	352	317	368	1.10	1.25	1.12	1.27	1.14	1.33	No Change	Sm. Inc.			1.28	-0.9	4.8
123	Table Mountain pine	44	41	39	46	39	53	36	63	0.95	1.12	0.95	1.29	0.88	1.54	No Change	Sm. Inc.	DRO	COL	2.55	-1.12	5.9
71	Tamarack (native)	3	2	1	1	1	6	1	6	0.50	0.50	0.50	3.00	0.50	3.00	Sm. Dec.	No Change		FTK COL INS	-0.48	-1.24	3.1
132	Virginia pine	489	526	581	579	716	500	700	491	1.11	1.10	1.36	0.95	1.33	0.93	Sm. Inc.	No Change		COL POL	0.1	-0.81	3.8
551	Water locust	0	0	0	0	0	6	0	56	NA	NA	NA	New	NA	New	NA	New Habitat			0.03	-0.64	3.8
827	Water oak	0	0	0	0	0	89	0	323	NA	NA	NA	New	NA	New	NA	New Habitat	TGR	FTK COL	-0.17	-0.59	3.7
541	White ash	1483	1657	1477	1250	1394	827	1422	747	0.89	0.75	0.84	0.50	0.86	0.45	No Change	Lg. Dec.		INS FTK COL	-2.01	-0.54	2.7
802	White oak	1572	1643	1720	2487	1791	2519	1853	2023	1.05	1.51	1.09	1.53	1.13	1.23	No Change	Sm. Inc.	EHS ESP TGR FTK	INS DISE	1.66	1	6.1
831	Willow oak	2	0	0	0	0	1	0	20	NA	NA	NA	New	NA	New	NA	New Habitat	SES TGR	COL	0.63	-0.01	4.7
971	Winged elm	3	2	11	388	43	1229	68	2272	5.50	194.00	21.50	614.50	34.00	1136.0	Lg. Inc.	Lg. Inc.		INS DISE	-0.58	-0.3	3.6
371	Yellow birch	151	135	113	53	106	33	103	29	0.84	0.39	0.79	0.24	0.76	0.22	Sm. Dec.	Lg. Dec.	DISP	FTK INS DISE	-1.38	-0.03	3.4
332	Yellow buckeye	202	161	176	175	175	177	176	174	1.09	1.09	1.09	1.10	1.09	1.08	No Change	No Change	COL	DRO SES FTK EHS DISP	-0.03	-2.13	3.1
621	Yellow-poplar	1685	1652	1783	1564	1895	939	1939	687	1.08	0.95	1.15	0.57	1.17	0.42	No Change	Lg. Dec.	SES DISP EHS	INP	0.13	1.26	5.3