

FIA	Common Name	Current IV		Modeled IV						DISTRIB Results (suitable habitat)						Change Class		Modifying Factors				
		Current		2010 - 2039		2040 - 2069		2070 - 2099		2010 - 2039		2040 - 2069		2070 - 2099		PCM B1	GFDL A1FI	Positive Traits	Negative Traits	DistFact	BioFact	Adapt
		FIA IV	Modeled	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	43	55	45	38	49	6	49	3	0.82	0.69	0.89	0.11	0.89	0.06	No Change	Lg. Decrease	COL	FTK	0.31	0.16	4.6
531	American beech	194	202	212	149	217	78	228	62	1.05	0.74	1.07	0.39	1.13	0.31	No Change	Lg. Decrease	COL	INS FTK	-1.14	0.03	3.6
972	American elm	395	379	305	316	254	249	258	177	0.81	0.83	0.67	0.66	0.68	0.47	Sm. Decrease	Lg. Decrease	EHS	DISE INS	-0.8	0.3	4.0
391	American hornbeam	133	108	114	112	111	122	113	127	1.06	1.04	1.03	1.13	1.05	1.18	No Change	No Change	COL SES	FTK DRO	0.56	0.62	5.1
743	Bigtooth aspen	149	116	72	11	38	0	35	0	0.62	0.10	0.33	0	0.30	0	Lg. Decrease	Lg. Decrease	FRG DISP	COL DRO FTK	1.01	0.16	5.1
402	Bitternut hickory	15	12	17	76	20	87	22	95	1.42	6.33	1.67	7.25	1.83	7.92	Sm. Increase	Lg. Increase	DRO	COL	2.17	-0.83	5.6
762	Black cherry	582	650	459	223	348	155	335	137	0.71	0.34	0.54	0.24	0.52	0.21	Sm. Decrease	Lg. Decrease	DRO EHS	INS FTK COL	-1.56	-0.32	3.0
408	Black hickory	0	0	0	115	2	224	6	308	NA	New	New	New	New	New	New Habitat	New Habitat	EHS COL		1.04	-2.27	4.1
901	Black locust	259	254	203	179	180	158	165	128	0.80	0.71	0.71	0.62	0.65	0.50	Sm. Decrease	Sm. Decrease		COL INS	0	-0.59	3.8
314	Black maple	41	23	27	10	25	7	25	7	1.17	0.44	1.09	0.30	1.09	0.30	No Change	Lg. Decrease	COL EHS	FTK	0.48	0.9	5.2
837	Black oak	248	261	288	508	301	640	303	566	1.10	1.95	1.15	2.45	1.16	2.17	No Change	Lg. Increase	DRO EHS	INS DISE	0.51	0.42	4.9
602	Black walnut	165	171	169	166	172	151	175	93	0.99	0.97	1.01	0.88	1.02	0.54	No Change	Sm. Decrease	SES	COL DRO	0.35	-0.83	4.0
922	Black willow	15	13	5	46	4	73	4	63	0.39	3.54	0.31	5.62	0.31	4.85	Lg. Decrease	Lg. Increase		COL FTK DRO	-0.31	-2.13	2.8
693	Blackgum	133	144	174	179	193	151	188	153	1.21	1.24	1.34	1.05	1.31	1.06	Sm. Increase	No Change		COL FTK	1.46	0.83	5.9
824	Blackjack oak	2	1	4	130	7	339	11	441	4.00	130.00	7.00	339.00	11.00	441.00	Lg. Increase	Lg. Increase	DRO SES FRG VRE	COL FTK	1.56	0.21	5.6
313	Boxelder	47	62	45	65	52	104	49	98	0.73	1.05	0.84	1.68	0.79	1.58	Sm. Decrease	Sm. Increase	SES DISP DRO COL TGR	FTK	2.39	2.06	7.4
823	Bur oak	2	0	0	0	0	8	0	21	NA	NA	NA	New	NA	New	NA	New Habitat		DRO FTK	2.77	-0.16	6.4
973	Cedar elm	0	0	0	0	0	107	0	194	NA	NA	NA	New	NA	New	NA	New Habitat		DISE	-0.27	-1.17	3.3
832	Chestnut oak	220	219	248	242	278	174	256	167	1.13	1.11	1.27	0.80	1.17	0.76	No Change	Sm. Decrease	SES VRE EHS FTK	INS DISE	1.39	1.29	6.1
826	Chinkapin oak	13	16	32	90	50	87	62	76	2.00	5.63	3.13	5.44	3.88	4.75	Lg. Increase	Lg. Increase	TGR		1.18	-0.66	4.8
521	Common persimmon	32	31	46	134	52	142	53	188	1.48	4.32	1.68	4.58	1.71	6.07	Sm. Increase	Lg. Increase	COL EHS		1.18	0.95	5.8
651	Cucumbertree	12	2	7	5	7	4	8	4	3.50	2.50	3.50	2.00	4.00	2.00	Lg. Increase	Lg. Increase		FTK	0.03	-1.05	3.6
742	Eastern cottonwood	27	9	9	28	6	46	5	67	1.00	3.11	0.67	5.11	0.56	7.44	Sm. Decrease	Lg. Increase	TGR	INS COL DISE FTK	0.22	-0.75	3.9
261	Eastern hemlock	9	13	3	3	3	2	4	2	0.23	0.23	0.23	0.15	0.31	0.15	Lg. Decrease	Lg. Decrease	COL	INS DRO	-1.34	-0.88	2.7
701	Eastern hophornbeam	106	120	103	110	100	156	103	169	0.86	0.92	0.83	1.30	0.86	1.41	No Change	Sm. Increase	COL EHS TGR		1.72	1.29	6.4
68	Eastern red cedar	47	73	141	358	182	390	219	436	1.93	4.90	2.49	5.34	3.00	5.97	Lg. Increase	Lg. Increase	DRO	FTK COL INS	0.56	-1.48	3.9
471	Eastern redbud	108	94	119	164	131	189	128	136	1.27	1.75	1.39	2.01	1.36	1.45	Sm. Increase	Sm. Increase			0.9	-0.03	4.9
129	Eastern white pine	98	98	75	49	58	1	55	1	0.77	0.50	0.59	0.01	0.56	0.01	Sm. Decrease	Lg. Decrease	DISP	DRO FTK INS	-1.97	0.13	3.3
491	Flowering dogwood	595	476	552	517	546	355	548	265	1.16	1.09	1.15	0.75	1.15	0.56	No Change	Sm. Decrease	COL		0.07	0.95	5.0
544	Green ash	24	25	26	73	31	163	37	180	1.04	2.92	1.24	6.52	1.48	7.20	Sm. Increase	Lg. Increase		INS FTK COL	-0.13	-0.25	4.0
462	Hackberry	30	39	39	101	47	118	55	106	1.00	2.59	1.21	3.03	1.41	2.72	Sm. Increase	Lg. Increase	DRO	FTK	1.66	0.3	5.7
552	Honeylocust	40	37	41	67	37	94	39	126	1.11	1.81	1.00	2.54	1.05	3.41	No Change	Lg. Increase		COL	1.91	-0.54	5.5
131	Loblolly pine	0	1	0	4	2	37	1	109	0	4.00	2.00	37.00	1.00	109.00	No Change	Lg. Increase	EHS	INS INP DRO COL	-0.51	-0.66	3.4
409	Mockernut hickory	198	206	220	245	231	256	230	258	1.07	1.19	1.12	1.24	1.12	1.25	No Change	Sm. Increase		FTK	1.69	-0.28	5.4
452	Northern catalpa	9	1	2	2	2	1	1	1	2.00	2.00	2.00	1.00	1.00	1.00	No Change	No Change		COL EHS	0.93	-1.58	4.2
833	Northern red oak	233	271	245	294	249	229	253	220	0.90	1.09	0.92	0.85	0.93	0.81	No Change	No Change	INS		1.39	0.13	5.4
331	Ohio buckeye	29	15	13	27	11	2	13	1	0.87	1.80	0.73	0.13	0.87	0.07	No Change	Lg. Decrease	COL	SES FTK	0.38	-1.92	3.5
641	Osage-orange	12	26	18	30	21	48	25	93	0.69	1.15	0.81	1.85	0.96	3.58	No Change	Lg. Increase	EHS ESP		2.32	0.33	6.3
367	Pawpaw	51	48	41	52	48	30	48	18	0.85	1.08	1.00	0.63	1.00	0.38	No Change	Lg. Decrease	COL	DRO	-0.48	-0.32	3.7
403	Pignut hickory	204	218	239	265	251	234	259	231	1.10	1.22	1.15	1.07	1.19	1.06	No Change	No Change	EHS	INS DRO	0.22	0.4	4.7

Central Appalachians (Section 221E East OH)
(summary of TreeAtlas results 2013-see companion file for keys to interpret)
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FIA	Common Name	Current IV		DISTRIB Results (suitable habitat)						Change Class		Modifying Factors									
		Current Modeled		2010 - 2039		2040 - 2069		2070 - 2099		Future : Current		PCM B1	GFDL A1FI	Positive Traits	Negative Traits	DistFact	BioFact	Adapt			
		FIA IV	Modeled	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI								PCM B1	GFDL A1FI	
830	Pin oak	16	8	7	29	9	68	9	51	0.88	3.63	1.13	8.50	1.13	6.38	No Change	Lg. Increase	FTK COL INS DISE	-0.65	-1.39	2.8
126	Pitch pine	24	16	20	15	23	15	21	14	1.25	0.94	1.44	0.94	1.31	0.88	Sm. Increase	No Change	COL INS	0.56	-1.79	3.8
835	Post oak	16	17	40	658	60	1052	86	1388	2.35	38.71	3.53	61.88	5.06	81.65	Lg. Increase	Lg. Increase	DRO TGR FTK COL INS DISE	2.17	-0.59	5.7
746	Quaking aspen	12	10	3	0	1	0	0	0	0.30	0	0.10	0	0	0	Lg. Decrease	Lg. Decrease	TGR FRG EHS COL DRO FTK	0.56	0.01	4.7
316	Red maple	816	769	734	397	718	265	690	227	0.95	0.52	0.93	0.35	0.90	0.30	No Change	Lg. Decrease	SES EHS ESP COL DISP	3	3	8.5
682	Red mulberry	0	2	2	41	2	87	2	93	1.00	20.50	1.00	43.50	1.00	46.50	No Change	Lg. Increase	COL DISP FTK	0.07	0.59	4.7
125	Red pine	18	6	3	1	2	1	0	1	0.50	0.17	0.33	0.17	0	0.17	Lg. Decrease	Lg. Decrease	INS COL DISP	0.86	-2.42	3.9
373	River birch	10	3	5	10	7	13	7	22	1.67	3.33	2.33	4.33	2.33	7.33	Lg. Increase	Lg. Increase	DISP FTK COL DRO	-0.45	-0.32	3.7
931	Sassafras	323	323	341	328	355	239	365	218	1.06	1.02	1.10	0.74	1.13	0.68	No Change	Sm. Decrease	COL FTK	0.48	-0.64	4.2
806	Scarlet oak	88	108	127	165	135	106	132	74	1.18	1.53	1.25	0.98	1.22	0.69	Sm. Increase	Sm. Decrease	VRE EHS ESP INS DISE FTK	-0.35	0.71	4.6
356	Serviceberry	33	25	30	29	28	29	26	27	1.20	1.16	1.12	1.16	1.04	1.08	No Change	No Change	COL SES DRO	-0.38	0.98	4.8
407	Shagbark hickory	49	76	75	143	86	146	94	128	0.99	1.88	1.13	1.92	1.24	1.68	Sm. Increase	Sm. Increase	INS FTK	-0.2	0.37	4.4
817	Shingle oak	19	8	17	48	13	46	22	45	2.13	6.00	1.63	5.75	2.75	5.63	Lg. Increase	Lg. Increase	EHS COL	1.31	-0.74	4.9
110	Shortleaf pine	15	15	26	136	35	299	44	445	1.73	9.07	2.33	19.93	2.93	29.67	Lg. Increase	Lg. Increase	EHS COL INS DRO	0	-0.97	3.6
834	Shumard oak	0	0	0	3	0	41	0	89	NA	New	NA	New	New	New	NA	New Habitat	DRO TGR COL	2.45	-1.02	5.8
317	Silver maple	57	52	29	81	23	185	27	187	0.56	1.56	0.44	3.56	0.52	3.60	Sm. Decrease	Lg. Increase	DISP SES COL DRO FTK	0.13	1.63	5.6
975	Slippery elm	182	195	175	198	167	143	168	95	0.90	1.02	0.86	0.73	0.86	0.49	No Change	Lg. Decrease	COL FTK DISE	0.03	0.68	4.8
711	Sourwood	69	49	81	43	109	34	89	36	1.65	0.88	2.22	0.69	1.82	0.74	Sm. Increase	Sm. Decrease	COL EHS	2.59	0.98	6.9
812	Southern red oak	0	1	3	31	8	83	10	137	3.00	31.00	8.00	83.00	10.00	137.00	Lg. Increase	Lg. Increase	TGR	1.21	0.21	5.3
318	Sugar maple	665	634	652	524	651	163	659	76	1.03	0.83	1.03	0.26	1.04	0.12	No Change	Lg. Decrease	COL EHS	0.86	1.34	5.8
461	Sugarberry	0	1	0	24	1	123	2	226	0	24.00	1.00	123.0	2.00	226.0	Sm. Increase	Lg. Increase	COL SES FTK	-0.17	0.64	4.6
372	Sweet birch	8	26	15	6	23	2	22	2	0.58	0.23	0.89	0.08	0.85	0.08	No Change	Lg. Decrease	DISP FTK COL INS DISE	-1.28	-0.32	3.2
611	Sweetgum	10	1	6	11	9	25	14	47	6.00	11.00	9.00	25.00	14.00	47.00	Lg. Increase	Lg. Increase	VRE EHS FTK COL DRO	-0.41	0.18	4.1
731	Sycamore	111	109	115	119	115	103	113	95	1.06	1.09	1.06	0.95	1.04	0.87	No Change	No Change		1.28	-0.9	4.8
132	Virginia pine	117	126	173	130	222	97	210	106	1.37	1.03	1.76	0.77	1.67	0.84	Sm. Increase	No Change	COL POL	0.1	-0.81	3.8
551	Water locust	0	0	0	0	0	1	0	16	NA	NA	NA	New	NA	New	NA	New Habitat		0.03	-0.64	3.8
827	Water oak	0	0	0	0	0	23	0	87	NA	NA	NA	New	NA	New	NA	New Habitat	TGR FTK COL	-0.17	-0.59	3.7
541	White ash	409	444	391	323	364	202	373	174	0.88	0.73	0.82	0.46	0.84	0.39	No Change	Lg. Decrease	INS FTK COL	-2.01	-0.54	2.7
802	White oak	411	429	482	784	518	655	532	472	1.12	1.83	1.21	1.53	1.24	1.10	Sm. Increase	No Change	EHS ESP TGR FTK INS DISE	1.66	1	6.1
971	Winged elm	0	1	1	159	7	342	13	682	1.00	159.00	7.00	342.00	13.00	682.0	Lg. Increase	Lg. Increase	INS DISE	-0.58	-0.3	3.6
332	Yellow buckeye	57	47	49	46	49	50	48	48	1.04	0.98	1.04	1.06	1.02	1.02	No Change	No Change	COL DRO SES FTK EHS DISP	-0.03	-2.13	3.1
621	Yellow-poplar	473	429	484	342	499	195	501	159	1.13	0.80	1.16	0.46	1.17	0.37	No Change	Lg. Decrease	SES DISP EHS INP	0.13	1.26	5.3