

**Central Appalachians ( Northeast OH, Section 221F)**  
(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	73	73	56	55	56	11	57	5	0.77	0.75	0.77	0.15	0.78	0.07	Sm. Decrease	Lg. Decrease	COL	FTK	0.31	0.16	4.6
531	American beech	228	178	182	151	180	62	183	51	1.02	0.85	1.01	0.35	1.03	0.29	No Change	Lg. Decrease	COL	INS FTK	-1.14	0.03	3.6
972	American elm	495	454	468	434	426	403	422	224	1.03	0.96	0.94	0.89	0.93	0.49	No Change	Sm. Decrease	EHS	DISE INS	-0.8	0.3	4.0
391	American hornbeam	79	73	68	62	68	69	68	67	0.93	0.85	0.93	0.95	0.93	0.92	No Change	No Change	COL SES	FTK DRO	0.56	0.62	5.1
743	Bigtooth aspen	34	57	53	18	55	0	44	0	0.93	0.32	0.97	0	0.77	0	Sm. Decrease	Lg. Decrease	FRG DISP	COL DRO FTK	1.01	0.16	5.1
402	Bitternut hickory	8	22	20	59	37	64	47	58	0.91	2.68	1.68	2.91	2.14	2.64	Lg. Increase	Lg. Increase	DRO	COL	2.17	-0.83	5.6
543	Black ash	7	20	5	3	2	4	1	5	0.25	0.15	0.10	0.20	0.05	0.25	Lg. Decrease	Lg. Decrease		INS COL DISP DRO SES FTK ESP	-1.31	-3	1.7
762	Black cherry	705	691	655	289	606	111	546	41	0.95	0.42	0.88	0.16	0.79	0.06	Sm. Decrease	Lg. Decrease	DRO EHS	INS FTK COL	-1.56	-0.32	3.0
408	Black hickory	0	0	0	7	0	56	0	105	NA	New	NA	New	NA	New	NA	New Habitat		EHS COL	1.04	-2.27	4.1
901	Black locust	74	101	115	114	123	72	121	99	1.14	1.13	1.22	0.71	1.20	0.98	Sm. Increase	No Change		COL INS	0	-0.59	3.8
314	Black maple	30	17	18	10	18	5	18	5	1.06	0.59	1.06	0.29	1.06	0.29	No Change	Lg. Decrease	COL EHS	FTK	0.48	0.9	5.2
837	Black oak	40	79	69	132	91	237	96	223	0.87	1.67	1.15	3.00	1.22	2.82	Sm. Increase	Lg. Increase	DRO EHS	INS DISE	0.51	0.42	4.9
602	Black walnut	55	80	108	137	152	143	162	103	1.35	1.71	1.90	1.79	2.03	1.29	Sm. Increase	Sm. Increase	SES	COL DRO	0.35	-0.83	4.0
922	Black willow	30	36	28	49	26	61	32	57	0.78	1.36	0.72	1.69	0.89	1.58	No Change	Sm. Increase		COL FTK DRO	-0.31	-2.13	2.8
693	Blackgum	35	34	50	33	59	32	59	38	1.47	0.97	1.74	0.94	1.74	1.12	Sm. Increase	No Change	COL FTK		1.46	0.83	5.9
824	Blackjack oak	0	0	0	8	2	120	3	149	NA	New	New	New	New	New	New Habitat	New Habitat	DRO SES FRG VRE	COL FTK	1.56	0.21	5.6
313	Boxelder	31	51	44	52	49	64	49	59	0.86	1.02	0.96	1.26	0.96	1.16	No Change	Sm. Increase	SES DISP DRO COL TGR	FTK	2.39	2.06	7.4
823	Bur oak	12	5	6	13	8	42	7	43	1.20	2.60	1.60	8.40	1.40	8.60	Sm. Increase	Lg. Increase	DRO FTK		2.77	-0.16	6.4
973	Cedar elm	0	0	0	0	0	2	0	61	NA	NA	NA	New	NA	New	NA	New Habitat		DISE	-0.27	-1.17	3.3
832	Chestnut oak	0	12	29	34	46	6	42	3	2.42	2.83	3.83	0.50	3.50	0.25	New Habitat	Lg. Decrease	SES VRE EHS FTK	INS DISE	1.39	1.29	6.1
826	Chinkapin oak	0	1	4	56	13	64	30	54	4.00	56.00	13.00	64.00	30.00	54.00	New Habitat	New Habitat	TGR		1.18	-0.66	4.8
521	Common persimmon	0	0	0	27	3	45	1	110	NA	New	New	New	New	New	New Habitat	New Habitat	COL EHS		1.18	0.95	5.8
651	Cucumber tree	18	5	11	7	11	5	11	5	2.20	1.40	2.20	1.00	2.20	1.00	Lg. Increase	No Change		FTK	0.03	-1.05	3.6
742	Eastern cottonwood	26	34	20	53	16	79	20	76	0.59	1.56	0.47	2.32	0.59	2.24	Sm. Decrease	Lg. Increase	TGR	INS COL DISE	0.22	-0.75	3.9
261	Eastern hemlock	9	18	9	3	8	1	5	1	0.50	0.17	0.44	0.06	0.28	0.06	Lg. Decrease	Lg. Decrease	COL	INS DRO	-1.34	-0.88	2.7
701	Eastern hophornbeam	91	123	82	98	75	64	73	83	0.67	0.80	0.61	0.52	0.59	0.68	Sm. Decrease	Sm. Decrease	COL EHS TGR		1.72	1.29	6.4
68	Eastern red cedar	0	6	29	173	79	218	111	220	4.83	28.83	13.17	36.33	18.50	36.67	New Habitat	New Habitat	DRO	FTK COL INS	0.56	-1.48	3.9
471	Eastern redbud	0	10	30	77	50	159	57	114	3.00	7.70	5.00	15.90	5.70	11.40	New Habitat	New Habitat			0.9	-0.03	4.9
129	Eastern white pine	48	44	50	40	51	0	41	0	1.14	0.91	1.16	0	0.93	0	No Change	Lg. Decrease	DISP	DRO FTK INS	-1.97	0.13	3.3
491	Flowering dogwood	115	113	146	143	155	116	158	115	1.29	1.27	1.37	1.03	1.40	1.02	Sm. Increase	No Change	COL		0.07	0.95	5.0
544	Green ash	16	29	21	42	38	135	40	146	0.72	1.45	1.31	4.66	1.38	5.03	Sm. Increase	Lg. Increase		INS FTK COL	-0.13	-0.25	4.0
462	Hackberry	4	21	34	125	51	152	57	133	1.62	5.95	2.43	7.24	2.71	6.33	Lg. Increase	Lg. Increase	DRO	FTK	1.66	0.3	5.7
552	Honeylocust	28	19	47	76	62	97	66	104	2.47	4.00	3.26	5.11	3.47	5.47	Lg. Increase	Lg. Increase		COL	1.91	-0.54	5.5
409	Mockernut hickory	84	101	93	140	106	170	104	153	0.92	1.39	1.05	1.68	1.03	1.52	No Change	Sm. Increase		FTK	1.69	-0.28	5.4
809	Northern pin oak	4	2	4	3	3	1	3	1	2.00	1.50	1.50	0.50	1.50	0.50	No Change	Sm. Decrease	DRO FTK	COL	2.52	-0.56	6.0
833	Northern red oak	191	192	168	191	169	178	166	116	0.88	1.00	0.88	0.93	0.87	0.60	No Change	Sm. Decrease		INS	1.39	0.13	5.4
241	Northern white-cedar	0	3	0	0	0	5	0	6	0	0	0	1.67	0	2.00	NA	No Change	COL	FTK	-0.7	0.49	4.2
331	Ohio buckeye	4	7	12	39	17	16	24	4	1.71	5.57	2.43	2.29	3.43	0.57	Lg. Increase	Sm. Decrease	COL	SES FTK	0.38	-1.92	3.5
641	Osage-orange	45	26	39	60	52	66	52	79	1.50	2.31	2.00	2.54	2.00	3.04	Sm. Increase	Lg. Increase	EHS ESP		2.32	0.33	6.3
403	Pignut hickory	86	107	105	152	115	159	114	130	0.98	1.42	1.08	1.49	1.07	1.22	No Change	Sm. Increase	EHS	INS DRO	0.22	0.4	4.7
761	Pin cherry	15	6	5	2	5	1	4	1	0.83	0.33	0.83	0.17	0.67	0.17	Sm. Decrease	Lg. Decrease	SES FRG FTK	COL	0.45	-0.68	4.2
830	Pin oak	106	74	68	89	65	107	63	84	0.92	1.20	0.88	1.45	0.85	1.14	No Change	No Change		FTK COL INS DISE	-0.65	-1.39	2.8

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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								
835	Post oak	0	0	0	112	9	401	15	655	NA	New	New	New	New	New	New	New Habitat	New Habitat	DRO TGR FTK	COL INS DISE	2.17	-0.59	5.7
746	Quaking aspen	33	49	23	0	13	3	7	3	0.47	0	0.27	0.06	0.14	0.06	Lg. Decrease	Lg. Decrease	TGR FRG EHS	COL DRO FTK	0.56	0.01	4.7	
316	Red maple	553	537	418	288	390	237	373	201	0.78	0.54	0.73	0.44	0.70	0.37	Sm. Decrease	Lg. Decrease	SES EHS ESP	COL DISP	3	3	8.5	
682	Red mulberry	0	1	1	49	4	61	7	78	1.00	49.00	4.00	61.00	7.00	78.00	New Habitat	New Habitat	COL DISP	FTK	0.07	0.59	4.7	
125	Red pine	29	28	26	11	17	9	16	9	0.93	0.39	0.61	0.32	0.57	0.32	Sm. Decrease	Lg. Decrease		INS COL DISP	0.86	-2.42	3.9	
977	Rock elm	0	0	0	0	0	9	0	11	NA	NA	NA	New	New	New	NA	New Habitat		EHS ESP SES	-0.2	-2.61	2.8	
931	Sassafras	32	72	91	102	112	80	119	97	1.26	1.42	1.56	1.11	1.65	1.35	Sm. Increase	Sm. Increase		COL FTK	0.48	-0.64	4.2	
806	Scarlet oak	7	6	8	21	29	38	28	30	1.33	3.50	4.83	6.33	4.67	5.00	Lg. Increase	Lg. Increase	VRE EHS ESP	INS DISE FTK	-0.35	0.71	4.6	
356	Serviceberry	3	2	2	1	2	1	2	1	1.00	0.50	1.00	0.50	1.00	0.50	No Change	Sm. Decrease	COL SES	DRO	-0.38	0.98	4.8	
407	Shagbark hickory	25	44	36	109	61	131	69	79	0.82	2.48	1.39	2.98	1.57	1.80	Sm. Increase	Sm. Increase		INS FTK	-0.2	0.37	4.4	
817	Shingle oak	7	0	5	69	5	67	7	49	New	New	New	New	New	New	No Change	Sm. Increase	EHS	COL	1.31	-0.74	4.9	
110	Shortleaf pine	0	0	0	0	0	8	0	40	NA	NA	NA	New	New	New	NA	New Habitat	EHS	COL INS DRO	0	-0.97	3.6	
834	Shumard oak	0	0	0	0	0	0	0	27	NA	NA	NA	NA	New	New	NA	New Habitat	DRO TGR	COL	2.45	-1.02	5.8	
317	Silver maple	90	56	45	95	43	141	49	104	0.80	1.70	0.77	2.52	0.88	1.86	No Change	Sm. Increase	DISP SES COL	DRO FTK	0.13	1.63	5.6	
975	Slippery elm	101	121	139	149	146	141	145	77	1.15	1.23	1.21	1.17	1.20	0.64	Sm. Increase	Sm. Decrease	COL	FTK DISE	0.03	0.68	4.8	
812	Southern red oak	0	0	0	0	0	1	0	14	NA	NA	NA	New	New	New	NA	New Habitat	TGR		1.21	0.21	5.3	
318	Sugar maple	538	490	509	480	544	191	562	109	1.04	0.98	1.11	0.39	1.15	0.22	No Change	Lg. Decrease	COL EHS		0.86	1.34	5.8	
461	Sugarberry	0	0	0	0	0	14	0	121	NA	NA	NA	New	New	New	NA	New Habitat	COL SES	FTK	-0.17	0.64	4.6	
804	Swamp white oak	52	48	41	46	39	25	41	6	0.85	0.96	0.81	0.52	0.85	0.13	No Change	Lg. Decrease			1.04	-0.3	4.9	
372	Sweet birch	1	3	4	2	9	0	11	0	1.33	0.67	3.00	0	3.67	0	No Change	NA	DISP	FTK COL INS DISE	-1.28	-0.32	3.2	
611	Sweetgum	0	0	0	0	2	1	3	6	NA	NA	New	New	New	New	New Habitat	New Habitat	VRE EHS	FTK COL DRO	-0.41	0.18	4.1	
731	Sycamore	22	41	60	63	63	56	64	61	1.46	1.54	1.54	1.37	1.56	1.49	Sm. Increase	Sm. Increase			1.28	-0.9	4.8	
541	White ash	368	456	432	347	441	179	453	151	0.95	0.76	0.97	0.39	0.99	0.33	No Change	Lg. Decrease		INS FTK COL	-2.01	-0.54	2.7	
802	White oak	53	118	103	230	125	260	134	167	0.87	1.95	1.06	2.20	1.14	1.42	No Change	Sm. Increase	EHS ESP TGR	INS DISE	1.66	1	6.1	
971	Winged elm	0	0	0	0	0	30	0	217	NA	NA	NA	New	New	New	NA	New Habitat	FTK	INS DISE	-0.58	-0.3	3.6	
371	Yellow birch	7	9	6	0	3	0	1	0	0.67	0	0.33	0	0.11	0	Lg. Decrease	Lg. Decrease	DISP	FTK INS DISE	-1.38	-0.03	3.4	
621	Yellow-poplar	66	75	85	80	118	59	124	52	1.13	1.07	1.57	0.79	1.65	0.69	Sm. Increase	Sm. Decrease	SES DISP EHS	INP	0.13	1.26	5.3	