

Southern Indiana
(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	62	62	54	22	49	0	37	19	0.87	0.36	0.79	0	0.60	0.31	Sm. Dec.	Lg. Dec.	COL	FTK	0.31	0.16	4.6
531	American beech	325	268	265	109	277	51	258	43	0.99	0.41	1.03	0.19	0.96	0.16	No Change	Lg. Dec.	COL	INS FTK	-1.14	0.03	3.6
972	American elm	562	654	803	569	636	381	643	360	1.23	0.87	0.97	0.58	0.98	0.55	No Change	Sm. Dec.	EHS	DISE INS	-0.8	0.3	4.0
391	American hornbeam	139	113	131	106	130	175	130	174	1.16	0.94	1.15	1.55	1.15	1.54	No Change	Sm. Inc.	COL SES	FTK DRO	0.56	0.62	5.1
221	Baldcypress	19	8	15	11	16	12	16	12	1.88	1.38	2.00	1.50	2.00	1.50	No Change	No Change	DISP	FTK	0.38	-1.02	3.9
743	Bigtooth aspen	54	29	20	0	16	0	12	0	0.69	0	0.55	0	0.41	0	Lg. Dec.	Lg. Dec.	FRG DISP	COL DRO FTK	1.01	0.16	5.1
402	Bitternut hickory	147	144	192	157	178	159	176	177	1.33	1.09	1.24	1.10	1.22	1.23	Sm. Inc.	Sm. Inc.	DRO	COL	2.17	-0.83	5.6
762	Black cherry	267	383	284	268	273	127	260	133	0.74	0.70	0.71	0.33	0.68	0.35	Sm. Dec.	Lg. Dec.	DRO EHS	INS FTK COL	-1.56	-0.32	3.0
408	Black hickory	2	11	68	206	85	282	102	337	6.18	18.73	7.73	25.64	9.27	30.64	Lg. Inc.	Lg. Inc.		EHS COL	1.04	-2.27	4.1
901	Black locust	175	196	194	184	208	173	198	103	0.99	0.94	1.06	0.88	1.01	0.53	No Change	Sm. Dec.		COL INS	0	-0.59	3.8
314	Black maple	12	8	7	1	7	0	6	0	0.88	0.13	0.88	0	0.75	0	No Change	Lg. Dec.	COL EHS	FTK	0.48	0.9	5.2
837	Black oak	335	416	462	551	459	486	473	415	1.11	1.33	1.10	1.17	1.14	1.00	No Change	No Change	DRO EHS	INS DISE	0.51	0.42	4.9
602	Black walnut	347	333	399	258	440	112	430	71	1.20	0.78	1.32	0.34	1.29	0.21	Sm. Inc.	Lg. Dec.	SES	COL DRO	0.35	-0.83	4.0
922	Black willow	86	98	133	118	118	134	123	142	1.36	1.20	1.20	1.37	1.26	1.45	Sm. Inc.	Sm. Inc.		COL FTK DRO	-0.31	-2.13	2.8
693	Blackgum	166	162	227	156	266	138	265	158	1.40	0.96	1.64	0.85	1.64	0.98	Sm. Inc.	No Change	COL FTK		1.46	0.83	5.9
824	Blackjack oak	3	8	87	227	139	331	162	368	10.88	28.38	17.38	41.38	20.25	46.00	Lg. Inc.	Lg. Inc.	DRO SES FRG VRE	COL FTK	1.56	0.21	5.6
546	Blue ash	19	4	13	10	16	8	13	10	3.25	2.50	4.00	2.00	3.25	2.50	No Change	No Change		INS DISP FTK COL ESP	-0.41	-2.35	2.7
313	Boxelder	280	253	295	276	296	318	292	482	1.17	1.09	1.17	1.26	1.15	1.91	No Change	Sm. Inc.	SES DISP DRO COL TGR	FTK	2.39	2.06	7.4
823	Bur oak	20	13	49	29	33	100	36	227	3.77	2.23	2.54	7.69	2.77	17.46	Lg. Inc.	Lg. Inc.	DRO FTK		2.77	-0.16	6.4
601	Butternut	9	2	4	0	3	0	2	0	2.00	0	1.50	0	1.00	0	No Change	Lg. Dec.		FTK COL DRO DISE	-1.41	-1.27	2.3
973	Cedar elm	0	0	0	61	1	199	3	230	NA	New	New	New	New	New	New Habitat	New Habitat		DISE	-0.27	-1.17	3.3
813	Cherrybark oak	11	15	58	16	67	21	63	29	3.87	1.07	4.47	1.40	4.20	1.93	Lg. Inc.	Sm. Inc.		INS FTK	-0.51	0.06	3.9
832	Chestnut oak	97	100	105	61	111	52	105	51	1.05	0.61	1.11	0.52	1.05	0.51	No Change	Sm. Dec.	SES VRE EHS FTK	INS DISE	1.39	1.29	6.1
826	Chinkapin oak	121	104	170	117	194	79	197	59	1.64	1.13	1.87	0.76	1.89	0.57	Sm. Inc.	Sm. Dec.	TGR		1.18	-0.66	4.8
521	Common persimmon	91	118	158	296	163	277	171	327	1.34	2.51	1.38	2.35	1.45	2.77	Sm. Inc.	Lg. Inc.	COL EHS		1.18	0.95	5.8
742	Eastern cottonwood	162	131	173	199	173	244	178	259	1.32	1.52	1.32	1.86	1.36	1.98	Sm. Inc.	Sm. Inc.	TGR	INS COL DISE FTK	0.22	-0.75	3.9
701	Eastern hophornbeam	127	149	143	129	154	162	155	199	0.96	0.87	1.03	1.09	1.04	1.34	No Change	Sm. Inc.	COL EHS TGR		1.72	1.29	6.4
471	Eastern red cedar	167	150	176	220	183	154	180	119	1.17	1.47	1.22	1.03	1.20	0.79	Sm. Inc.	Sm. Dec.			0.9	-0.03	4.9
68	Eastern redbud	284	342	427	439	458	530	458	635	1.25	1.28	1.34	1.55	1.34	1.86	Sm. Inc.	Sm. Inc.	DRO	FTK COL INS	0.56	-1.48	3.9
129	Eastern white pine	48	35	30	15	39	4	33	4	0.86	0.43	1.11	0.11	0.94	0.11	No Change	Lg. Dec.	DISP	DRO FTK INS	-1.97	0.13	3.3
491	Flowering dogwood	565	458	494	414	488	288	477	300	1.08	0.90	1.07	0.63	1.04	0.66	No Change	Sm. Dec.	COL		0.07	0.95	5.0
544	Green ash	279	275	342	460	352	592	359	636	1.24	1.67	1.28	2.15	1.31	2.31	Sm. Inc.	Lg. Inc.		INS FTK COL	-0.13	-0.25	4.0
462	Hackberry	334	308	474	375	459	336	451	300	1.54	1.22	1.49	1.09	1.46	0.97	Sm. Inc.	No Change	DRO	FTK	1.66	0.3	5.7
552	Honeylocust	135	168	218	227	210	272	207	289	1.30	1.35	1.25	1.62	1.23	1.72	Sm. Inc.	Sm. Inc.		COL	1.91	-0.54	5.5
105	Jack pine	11	1	1	1	1	1	1	9	1.00	1.00	1.00	1.00	1.00	1.00	No Change	Lg. Inc.	DRO	COL INS	1.87	-1.24	5.2
571	Kentucky coffeetree	19	1	7	3	8	1	8	4	7.00	3.00	8.00	1.00	8.00	4.00	Sm. Inc.	Sm. Inc.		COL	0.9	-1.21	4.3
131	Loblolly pine	0	12	50	50	94	140	106	233	4.17	4.17	7.83	11.67	8.83	19.42	Lg. Inc.	Lg. Inc.	EHS	INS INP DRO COL	-0.51	-0.66	3.4
409	Mockernut hickory	96	212	197	278	219	273	217	272	0.93	1.31	1.03	1.29	1.02	1.28	No Change	Sm. Inc.		FTK	1.69	-0.28	5.4
452	Northern catalpa	23	7	9	13	9	11	7	21	1.29	1.86	1.29	1.57	1.00	3.00	No Change	No Change		COL EHS	0.93	-1.58	4.2
809	Northern pin oak	21	6	4	1	1	0	1	8	0.67	0.17	0.17	0	0.17	1.33	Lg. Dec.	No Change	DRO FTK	COL	2.52	-0.56	6.0
833	Northern red oak	260	306	311	253	328	204	325	161	1.02	0.83	1.07	0.67	1.06	0.53	No Change	Sm. Dec.		INS	1.39	0.13	5.4
331	Ohio buckeye	67	37	49	34	46	13	36	9	1.32	0.92	1.24	0.35	0.97	0.24	No Change	Lg. Dec.	COL	SES FTK	0.38	-1.92	3.5
641	Osage-orange	135	122	226	139	234	161	233	169	1.85	1.14	1.92	1.32	1.91	1.39	Sm. Inc.	Sm. Inc.	EHS ESP		2.32	0.33	6.3

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		FIA IV		PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI							
822	Overcup oak	5	7	7	24	7	33	8	35	1.00	3.43	1.00	4.71	1.14	5.00	No Change	Sm. Inc.	FTK INS DRO	-0.51	-0.95	3.2	
367	Pawpaw	69	72	101	44	109	12	108	9	1.40	0.61	1.51	0.17	1.50	0.13	Sm. Inc.	Lg. Dec.	COL DRO	-0.48	-0.32	3.7	
404	Pecan	25	104	76	56	73	97	79	113	0.73	0.54	0.70	0.93	0.76	1.09	Sm. Dec.	No Change	FTK INS COL	-1.24	-1.7	2.2	
403	Pignut hickory	290	333	348	350	347	333	344	331	1.05	1.05	1.04	1.00	1.03	0.99	No Change	No Change	EHS INS DRO	0.22	0.4	4.7	
830	Pin oak	136	140	266	209	242	242	249	228	1.90	1.49	1.73	1.73	1.78	1.63	Sm. Inc.	Sm. Inc.	FTK COL INS DISE	-0.65	-1.39	2.8	
835	Post oak	42	130	337	1439	387	1798	431	2048	2.59	11.07	2.98	13.83	3.32	15.75	Lg. Inc.	Lg. Inc.	DRO TGR FTK COL INS DISE	2.17	-0.59	5.7	
316	Red maple	416	485	493	422	505	453	489	485	1.02	0.87	1.04	0.93	1.01	1.00	No Change	No Change	SES EHS ESP COL DISP	3	3	8.5	
682	Red mulberry	53	63	105	168	102	191	105	235	1.67	2.67	1.62	3.03	1.67	3.73	Sm. Inc.	Lg. Inc.	COL DISP FTK	0.07	0.59	4.7	
373	River birch	72	54	83	68	85	77	87	102	1.54	1.26	1.57	1.43	1.61	1.89	Sm. Inc.	Sm. Inc.	DISP FTK COL DRO	-0.45	-0.32	3.7	
977	Rock elm	37	11	50	24	68	10	58	3	4.55	2.18	6.18	0.91	5.27	0.27	Sm. Inc.	Sm. Dec.	EHS ESP SES	-0.2	-2.61	2.8	
931	Sassafras	592	508	571	389	551	251	534	238	1.12	0.77	1.09	0.49	1.05	0.47	No Change	Lg. Dec.	COL FTK	0.48	-0.64	4.2	
806	Scarlet oak	53	77	85	79	97	29	94	20	1.10	1.03	1.26	0.38	1.22	0.26	Sm. Inc.	Lg. Dec.	VRE EHS ESP INS DISE FTK	-0.35	0.71	4.6	
407	Shagbark hickory	326	333	382	275	340	184	340	181	1.15	0.83	1.02	0.55	1.02	0.54	No Change	Sm. Dec.	INS FTK	-0.2	0.37	4.4	
405	Shellbark hickory	64	24	46	43	37	31	33	28	1.92	1.79	1.54	1.29	1.38	1.17	Sm. Inc.	No Change	COL FTK EHS	-0.48	-0.3	3.7	
817	Shingle oak	84	106	144	139	125	139	118	141	1.36	1.31	1.18	1.31	1.11	1.33	No Change	Sm. Inc.	EHS COL	1.31	-0.74	4.9	
110	Shortleaf pine	42	43	76	275	95	379	105	591	1.77	6.40	2.21	8.81	2.44	13.74	Lg. Inc.	Lg. Inc.	EHS COL INS DRO	0	-0.97	3.6	
834	Shumard oak	7	0	2	25	1	98	2	124	New	New	New	New	New	New	New Habitat	New Habitat	DRO TGR COL	2.45	-1.02	5.8	
317	Silver maple	336	287	368	446	326	507	317	526	1.28	1.55	1.14	1.77	1.11	1.83	No Change	Sm. Inc.	DISP SES COL DRO FTK	0.13	1.63	5.6	
111	Slash pine	0	0	1	1	11	2	8	7	New	New	New	New	New	New	New Habitat	New Habitat	DISP FTK COL INS	1.14	-1.67	4.3	
975	Slippery elm	333	300	316	259	288	157	281	148	1.05	0.86	0.96	0.52	0.94	0.49	No Change	Lg. Dec.	COL FTK DISE	0.03	0.68	4.8	
711	Sourwood	1	4	3	1	8	1	8	1	0.75	0.25	2.00	0.25	2.00	0.25	No Change	Sm. Dec.	COL EHS	2.59	0.98	6.9	
812	Southern red oak	7	22	83	209	132	277	136	402	3.77	9.50	6.00	12.59	6.18	18.27	Lg. Inc.	Lg. Inc.	TGR	1.21	0.21	5.3	
318	Sugar maple	1186	1082	1035	389	979	112	904	56	0.96	0.36	0.91	0.10	0.84	0.05	No Change	Lg. Dec.	COL EHS	0.86	1.34	5.8	
461	Sugarberry	8	20	50	208	103	370	117	427	2.50	10.40	5.15	18.50	5.85	21.35	Lg. Inc.	Lg. Inc.	COL SES FTK	-0.17	0.64	4.6	
825	Swamp chestnut oak	10	0	4	2	4	2	4	3	New	New	New	New	New	New	New Habitat	New Habitat	TGR COL INS	1.08	-0.81	4.6	
694	Swamp tupelo	18	1	6	2	30	1	32	3	6.00	2.00	30.00	1.00	32.00	3.00	Lg. Inc.	No Change	DRO FTK COL EHS	-0.65	-1.7	2.7	
804	Swamp white oak	37	34	53	25	49	8	44	4	1.56	0.74	1.44	0.24	1.29	0.12	Sm. Inc.	Lg. Dec.		1.04	-0.3	4.9	
611	Sweetgum	252	211	353	252	435	238	431	354	1.67	1.19	2.06	1.13	2.04	1.68	Lg. Inc.	Sm. Inc.	VRE EHS FTK COL DRO	-0.41	0.18	4.1	
731	Sycamore	317	282	295	260	300	198	289	191	1.05	0.92	1.06	0.70	1.03	0.68	No Change	Sm. Dec.		1.28	-0.9	4.8	
132	Virginia pine	99	69	89	63	107	62	93	69	1.29	0.91	1.55	0.90	1.35	1.00	Sm. Inc.	No Change	COL POL	0.1	-0.81	3.8	
827	Water oak	0	0	0	23	1	184	4	285	NA	New	New	New	New	New	New Habitat	New Habitat	TGR FTK COL	-0.17	-0.59	3.7	
541	White ash	765	751	709	382	649	262	604	242	0.94	0.51	0.86	0.35	0.80	0.32	No Change	Lg. Dec.	INS FTK COL	-2.01	-0.54	2.7	
802	White oak	499	604	591	603	597	423	597	348	0.98	1.00	0.99	0.70	0.99	0.58	No Change	Sm. Dec.	EHS ESP TGR FTK INS DISE	1.66	1	6.1	
766	Wild plum	7	0	11	0	19	0	23	7	New	NA	New	NA	New	New	New Habitat	New Habitat	COL	0.48	-1.34	3.9	
831	Willow oak	0	11	21	25	26	42	36	46	1.91	2.27	2.36	3.82	3.27	4.18	No Change	Sm. Inc.	SES TGR COL	0.63	-0.01	4.7	
971	Winged elm	32	51	186	666	286	1013	316	1280	3.65	13.06	5.61	19.86	6.20	25.10	Lg. Inc.	Lg. Inc.	INS DISE	-0.58	-0.3	3.6	
371	Yellow birch	27	0	13	12	12	12	12	11	New	New	New	New	New	New	New Habitat	New Habitat	DISP FTK INS DISE	-1.38	-0.03	3.4	
332	Yellow buckeye	4	4	3	2	4	2	3	2	0.75	0.50	1.00	0.50	0.75	0.50	No Change	Sm. Dec.	COL DRO SES FTK EHS DISP	-0.03	-2.13	3.1	
621	Yellow-poplar	533	418	432	225	420	134	402	134	1.03	0.54	1.01	0.32	0.96	0.32	No Change	Lg. Dec.	SES DISP EHS INP	0.13	1.26	5.3	