

Southern Illinois  
(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	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
		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							
951	American basswood	24	21	10	10	8	3	4	97	0.48	0.48	0.38	0.14	0.19	4.62	Lg. Dec.	Lg. Inc.	COL	FTK	0.31	0.16	4.6
531	American beech	34	51	42	19	43	16	44	16	0.82	0.37	0.84	0.31	0.86	0.31	No Change	Lg. Dec.	COL	INS FTK	-1.14	0.03	3.6
972	American elm	934	929	1106	654	961	385	921	404	1.19	0.70	1.03	0.41	0.99	0.44	No Change	Lg. Dec.	EHS	DISE INS	-0.8	0.3	4.0
391	American hornbeam	23	27	31	65	30	146	35	144	1.15	2.41	1.11	5.41	1.30	5.33	Sm. Inc.	Lg. Inc.	COL SES	FTK DRO	0.56	0.62	5.1
221	Baldcypress	7	8	11	6	11	7	11	6	1.38	0.75	1.38	0.88	1.38	0.75	No Change	No Change	DISP	FTK	0.38	-1.02	3.9
402	Bitternut hickory	191	202	220	182	202	174	189	198	1.09	0.90	1.00	0.86	0.94	0.98	No Change	No Change	DRO	COL	2.17	-0.83	5.6
543	Black ash	9	4	2	2	2	2	2	34	0.50	0.50	0.50	0.50	0.50	8.50	Sm. Dec.	Lg. Inc.		INS COL DISP DRO SES FTK ESP	-1.31	-3	1.7
762	Black cherry	382	404	327	184	303	140	300	128	0.81	0.46	0.75	0.35	0.74	0.32	Sm. Dec.	Lg. Dec.	DRO EHS	INS FTK COL	-1.56	-0.32	3.0
408	Black hickory	36	40	87	193	121	198	152	226	2.18	4.83	3.03	4.95	3.80	5.65	Lg. Inc.	Lg. Inc.		EHS COL	1.04	-2.27	4.1
901	Black locust	106	100	110	198	128	140	136	124	1.10	1.98	1.28	1.40	1.36	1.24	Sm. Inc.	Sm. Inc.		COL INS	0	-0.59	3.8
837	Black oak	605	596	575	578	564	424	562	344	0.97	0.97	0.95	0.71	0.94	0.58	No Change	Sm. Dec.	DRO EHS	INS DISE	0.51	0.42	4.9
602	Black walnut	289	326	357	215	351	65	336	38	1.10	0.66	1.08	0.20	1.03	0.12	No Change	Lg. Dec.	SES	COL DRO	0.35	-0.83	4.0
922	Black willow	177	169	241	200	202	188	184	201	1.43	1.18	1.20	1.11	1.09	1.19	No Change	No Change		COL FTK DRO	-0.31	-2.13	2.8
693	Blackgum	54	69	121	52	162	47	163	53	1.75	0.75	2.35	0.68	2.36	0.77	Lg. Inc.	Sm. Dec.	COL FTK		1.46	0.83	5.9
824	Blackjack oak	34	33	98	209	120	252	150	266	2.97	6.33	3.64	7.64	4.55	8.06	Lg. Inc.	Lg. Inc.	DRO SES FRG VRE	COL FTK	1.56	0.21	5.6
313	Boxelder	347	336	327	380	326	559	326	807	0.97	1.13	0.97	1.66	0.97	2.40	No Change	Lg. Inc.	SES DISP DRO COL TGR	FTK	2.39	2.06	7.4
823	Bur oak	31	25	68	55	60	192	65	363	2.72	2.20	2.40	7.68	2.60	14.52	Lg. Inc.	Lg. Inc.	DRO FTK		2.77	-0.16	6.4
601	Butternut	13	4	1	0	2	0	0	0	0.25	0	0.50	0	0	0	Lg. Dec.	Lg. Dec.		FTK COL DRO DISE	-1.41	-1.27	2.3
973	Cedar elm	0	0	10	158	11	179	18	213	New	New	New	New	New	New	New Habitat	New Habitat		DISE	-0.27	-1.17	3.3
813	Cherrybark oak	25	36	81	37	104	47	98	48	2.25	1.03	2.89	1.31	2.72	1.33	Lg. Inc.	Sm. Inc.		INS FTK	-0.51	0.06	3.9
832	Chestnut oak	4	18	11	13	7	11	12	12	0.61	0.72	0.39	0.61	0.67	0.67	Sm. Dec.	Sm. Dec.	SES VRE EHS FTK	INS DISE	1.39	1.29	6.1
826	Chinkapin oak	59	58	73	70	98	32	107	32	1.26	1.21	1.69	0.55	1.85	0.55	Sm. Inc.	Sm. Dec.	TGR		1.18	-0.66	4.8
521	Common persimmon	189	202	237	276	239	249	240	323	1.17	1.37	1.18	1.23	1.19	1.60	No Change	Sm. Inc.	COL EHS		1.18	0.95	5.8
651	Cucumbertree	5	0	3	2	2	2	2	2	New	New	New	New	New	New	New Habitat	New Habitat		FTK	0.03	-1.05	3.6
742	Eastern cottonwood	204	196	233	316	238	344	236	356	1.19	1.61	1.21	1.76	1.20	1.82	Sm. Inc.	Sm. Inc.	TGR	INS COL DISE FTK	0.22	-0.75	3.9
701	Eastern hophornbeam	112	117	99	116	102	150	96	180	0.85	0.99	0.87	1.28	0.82	1.54	No Change	Sm. Inc.	COL EHS TGR		1.72	1.29	6.4
471	Eastern red cedar	129	184	138	284	132	122	134	115	1.03	2.12	0.99	0.91	1.00	0.86	No Change	No Change			0.9	-0.03	4.9
68	Eastern redbud	107	134	265	330	292	425	317	516	1.44	1.79	1.59	2.31	1.72	2.80	Sm. Inc.	Lg. Inc.	DRO	FTK COL INS	0.56	-1.48	3.9
129	Eastern white pine	43	25	7	4	6	2	5	3	0.28	0.16	0.24	0.08	0.20	0.12	Lg. Dec.	Lg. Dec.	DISP	DRO FTK INS	-1.97	0.13	3.3
491	Flowering dogwood	205	258	249	225	258	224	257	229	0.97	0.87	1.00	0.87	1.00	0.89	No Change	No Change	COL		0.07	0.95	5.0
544	Green ash	473	481	510	824	518	861	534	918	1.06	1.71	1.08	1.79	1.11	1.91	No Change	Sm. Inc.		INS FTK COL	-0.13	-0.25	4.0
462	Hackberry	616	587	640	661	628	416	639	395	1.09	1.13	1.07	0.71	1.09	0.67	No Change	Sm. Dec.	DRO	FTK	1.66	0.3	5.7
552	Honeylocust	184	238	235	287	234	284	224	321	0.99	1.21	0.98	1.19	0.94	1.35	No Change	Sm. Inc.		COL	1.91	-0.54	5.5
105	Jack pine	9	9	3	8	1	8	1	49	0.33	0.89	0.11	0.89	0.11	5.44	Lg. Dec.	Sm. Inc.	DRO	COL INS	1.87	-1.24	5.2
571	Kentucky coffeetree	5	1	3	2	5	3	4	4	3.00	2.00	5.00	3.00	4.00	4.00	Sm. Inc.	Sm. Inc.		COL	0.9	-1.21	4.3
131	Loblolly pine	6	23	73	91	115	219	171	264	3.17	3.96	5.00	9.52	7.44	11.48	Sm. Inc.	Lg. Inc.	EHS	INS INP DRO COL	-0.51	-0.66	3.4
409	Mockernut hickory	322	337	305	397	312	343	314	320	0.91	1.18	0.93	1.02	0.93	0.95	No Change	No Change		FTK	1.69	-0.28	5.4
452	Northern catalpa	27	10	10	15	10	14	8	21	1.00	1.50	1.00	1.40	0.80	2.10	No Change	No Change		COL EHS	0.93	-1.58	4.2
809	Northern pin oak	9	2	2	0	1	0	1	40	1.00	0	0.50	0	0.50	20.00	Sm. Dec.	Lg. Inc.	DRO FTK	COL	2.52	-0.56	6.0
833	Northern red oak	284	322	294	238	299	132	288	106	0.91	0.74	0.93	0.41	0.89	0.33	No Change	Lg. Dec.		INS	1.39	0.13	5.4
331	Ohio buckeye	13	9	3	7	8	2	2	2	0.33	0.78	0.89	0.22	0.22	0.22	Sm. Dec.	Sm. Dec.	COL	SES FTK	0.38	-1.92	3.5
641	Osage-orange	120	199	289	200	298	186	316	197	1.45	1.01	1.50	0.94	1.59	0.99	Sm. Inc.	No Change	EHS ESP		2.32	0.33	6.3

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822 Overcup oak	17	17	15	61	14	80	15	84	0.88	3.59	0.82	4.71	0.88	4.94	No Change	Sm. Inc.	FTK INS DRO	-0.51	-0.95	3.2
367 Pawpaw	38	34	54	18	63	2	58	2	1.59	0.53	1.85	0.06	1.71	0.06	Sm. Inc.	Lg. Dec.	COL DRO	-0.48	-0.32	3.7
404 Pecan	34	135	84	56	101	84	123	123	0.62	0.42	0.75	0.62	0.91	0.91	No Change	No Change	FTK INS COL	-1.24	-1.7	2.2
403 Pignut hickory	461	430	409	353	393	329	351	336	0.95	0.82	0.91	0.77	0.82	0.78	No Change	Sm. Dec.	EHS INS DRO	0.22	0.4	4.7
830 Pin oak	320	325	391	403	375	311	365	300	1.20	1.24	1.15	0.96	1.12	0.92	No Change	No Change	FTK COL INS DISE	-0.65	-1.39	2.8
835 Post oak	356	395	546	1689	593	1722	636	2137	1.38	4.28	1.50	4.36	1.61	5.41	Sm. Inc.	Lg. Inc.	DRO TGR FTK COL INS DISE	2.17	-0.59	5.7
316 Red maple	493	474	532	527	524	559	516	564	1.12	1.11	1.11	1.18	1.09	1.19	No Change	No Change	SES EHS ESP COL DISP	3	3	8.5
682 Red mulberry	240	152	265	322	234	356	237	403	1.74	2.12	1.54	2.34	1.56	2.65	Sm. Inc.	Lg. Inc.	COL DISP FTK	0.07	0.59	4.7
373 River birch	108	104	141	98	141	105	151	142	1.36	0.94	1.36	1.01	1.45	1.37	Sm. Inc.	Sm. Inc.	DISP FTK COL DRO	-0.45	-0.32	3.7
931 Sassafras	572	536	526	375	496	232	469	239	0.98	0.70	0.93	0.43	0.88	0.45	No Change	Lg. Dec.	COL FTK	0.48	-0.64	4.2
806 Scarlet oak	24	31	39	6	39	4	34	4	1.26	0.19	1.26	0.13	1.10	0.13	No Change	Lg. Dec.	VRE EHS ESP INS DISE FTK	-0.35	0.71	4.6
407 Shagbark hickory	583	628	557	314	447	212	396	221	0.89	0.50	0.71	0.34	0.63	0.35	Sm. Dec.	Lg. Dec.	INS FTK	-0.2	0.37	4.4
405 Shellbark hickory	56	31	45	30	41	28	30	28	1.45	0.97	1.32	0.90	0.97	0.90	No Change	No Change	COL FTK EHS	-0.48	-0.3	3.7
817 Shingle oak	423	400	316	327	236	294	213	307	0.79	0.82	0.59	0.74	0.53	0.77	Sm. Dec.	Sm. Dec.	EHS COL	1.31	-0.74	4.9
110 Shortleaf pine	91	76	93	223	118	280	135	350	1.22	2.93	1.55	3.68	1.78	4.61	Sm. Inc.	Lg. Inc.	EHS COL INS DRO	0	-0.97	3.6
834 Shumard oak	10	1	4	57	4	70	5	102	4.00	57.00	4.00	70.00	5.00	102.00	Sm. Inc.	Lg. Inc.	DRO TGR COL	2.45	-1.02	5.8
317 Silver maple	522	544	599	713	500	678	457	731	1.10	1.31	0.92	1.25	0.84	1.34	No Change	Sm. Inc.	DISP SES COL DRO FTK	0.13	1.63	5.6
111 Slash pine	0	0	1	6	3	11	5	16	New	New	New	New	New	New	New Habitat	New Habitat	DISP FTK COL INS	1.14	-1.67	4.3
975 Slippery elm	294	299	317	234	278	169	264	168	1.06	0.78	0.93	0.57	0.88	0.56	No Change	Sm. Dec.	COL FTK DISE	0.03	0.68	4.8
812 Southern red oak	36	40	127	223	194	282	208	310	3.18	5.58	4.85	7.05	5.20	7.75	Lg. Inc.	Lg. Inc.	TGR	1.21	0.21	5.3
318 Sugar maple	436	505	415	199	374	63	326	44	0.82	0.39	0.74	0.13	0.65	0.09	Sm. Dec.	Lg. Dec.	COL EHS	0.86	1.34	5.8
461 Sugarberry	80	58	129	384	184	396	212	451	2.22	6.62	3.17	6.83	3.66	7.78	Lg. Inc.	Lg. Inc.	COL SES FTK	-0.17	0.64	4.6
825 Swamp chestnut oak	8	1	3	2	4	2	3	2	3.00	2.00	4.00	2.00	3.00	2.00	No Change	No Change	TGR COL INS	1.08	-0.81	4.6
694 Swamp tupelo	1	1	1	0	4	0	5	1	1.00	0	4.00	0	5.00	1.00	Sm. Inc.	No Change	DRO FTK COL EHS	-0.65	-1.7	2.7
804 Swamp white oak	58	46	44	28	40	4	26	7	0.96	0.61	0.87	0.09	0.57	0.15	Sm. Dec.	Lg. Dec.		1.04	-0.3	4.9
611 Sweetgum	204	243	418	290	516	313	534	349	1.72	1.19	2.12	1.29	2.20	1.44	Lg. Inc.	Sm. Inc.	VRE EHS FTK COL DRO	-0.41	0.18	4.1
731 Sycamore	281	296	271	210	270	172	261	188	0.92	0.71	0.91	0.58	0.88	0.64	No Change	Sm. Dec.		1.28	-0.9	4.8
691 Water locust	0	0	14	4	9	4	12	3	7.00	2.00	4.50	2.00	6.00	1.50	Sm. Inc.	No Change	DRO FTK COL EHS	-0.86	-2.05	2.3
827 Water oak	0	0	2	57	15	259	26	311	New	New	New	New	New	New	New Habitat	New Habitat	TGR FTK COL	-0.17	-0.59	3.7
541 White ash	527	597	505	345	460	245	410	242	0.85	0.58	0.77	0.41	0.69	0.41	Sm. Dec.	Lg. Dec.	INS FTK COL	-2.01	-0.54	2.7
802 White oak	880	899	722	558	669	412	644	359	0.80	0.62	0.74	0.46	0.72	0.40	Sm. Dec.	Lg. Dec.	EHS ESP TGR FTK INS DISE	1.66	1	6.1
766 Wild plum	7	0	6	0	13	0	21	46	New	NA	New	NA	New	New	New Habitat	New Habitat	COL	0.48	-1.34	3.9
831 Willow oak	1	20	40	54	46	74	55	74	2.00	2.70	2.30	3.70	2.75	3.70	Lg. Inc.	Lg. Inc.	SES TGR COL	0.63	-0.01	4.7
971 Winged elm	70	117	308	749	494	920	564	1197	2.63	6.40	4.22	7.86	4.82	10.23	Lg. Inc.	Lg. Inc.	INS DISE	-0.58	-0.3	3.6
621 Yellow-poplar	119	117	162	90	184	71	183	69	1.39	0.77	1.57	0.61	1.56	0.59	Sm. Inc.	Sm. Dec.	SES DISP EHS INP	0.13	1.26	5.3