

**Southern Missouri**  
(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		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	18	11	6	3	12	3	183	0.61	0.33	0.17	0.67	0.17	10.17	Lg. Dec.	Lg. Inc.	COL	FTK	0.31	0.16	4.6
531	American beech	10	66	29	11	21	9	35	10	0.44	0.17	0.32	0.14	0.53	0.15	Sm. Dec.	Lg. Dec.	COL	INS FTK	-1.14	0.03	3.6
972	American elm	859	917	1067	589	760	535	667	602	1.16	0.64	0.83	0.58	0.73	0.66	Sm. Dec.	Sm. Dec.	EHS	DISE INS	-0.8	0.3	4.0
391	American hornbeam	44	47	71	106	50	246	89	250	1.51	2.26	1.06	5.23	1.89	5.32	Sm. Inc.	Lg. Inc.	COL SES	FTK DRO	0.56	0.62	5.1
221	Baldcypress	7	3	7	4	4	4	5	4	2.33	1.33	1.33	1.33	1.67	1.33	No Change	No Change	DISP	FTK	0.38	-1.02	3.9
402	Bitternut hickory	290	314	330	305	294	333	288	378	1.05	0.97	0.94	1.06	0.92	1.20	No Change	Sm. Inc.	DRO	COL	2.17	-0.83	5.6
762	Black cherry	311	358	361	459	338	398	363	388	1.01	1.28	0.94	1.11	1.01	1.08	No Change	No Change	DRO EHS	INS FTK COL	-1.56	-0.32	3.0
408	Black hickory	999	959	1077	922	1090	886	1102	836	1.12	0.96	1.14	0.92	1.15	0.87	No Change	No Change		EHS COL	1.04	-2.27	4.1
901	Black locust	40	87	95	287	71	135	142	144	1.09	3.30	0.82	1.55	1.63	1.66	Sm. Inc.	Sm. Inc.		COL INS	0	-0.59	3.8
837	Black oak	3500	3243	3422	3088	3299	2435	3148	2381	1.06	0.95	1.02	0.75	0.97	0.73	No Change	Sm. Dec.	DRO EHS	INS DISE	0.51	0.42	4.9
602	Black walnut	561	570	877	334	585	142	674	130	1.54	0.59	1.03	0.25	1.18	0.23	No Change	Lg. Dec.	SES	COL DRO	0.35	-0.83	4.0
922	Black willow	112	110	218	125	105	155	88	256	1.98	1.14	0.96	1.41	0.80	2.33	No Change	Lg. Inc.		COL FTK DRO	-0.31	-2.13	2.8
693	Blackgum	242	286	377	308	349	314	407	302	1.32	1.08	1.22	1.10	1.42	1.06	Sm. Inc.	No Change	COL FTK		1.46	0.83	5.9
824	Blackjack oak	835	859	1073	1408	1116	1427	1198	1369	1.25	1.64	1.30	1.66	1.40	1.59	Sm. Inc.	Sm. Inc.	DRO SES FRG VRE	COL FTK	1.56	0.21	5.6
546	Blue ash	21	3	8	10	8	6	10	7	2.67	3.33	2.67	2.00	3.33	2.33	No Change	No Change		INS DISP FTK COL ESP	-0.41	-2.35	2.7
313	Boxelder	149	175	184	291	172	545	208	1212	1.05	1.66	0.98	3.11	1.19	6.93	No Change	Lg. Inc.	SES DISP DRO COL TGR	FTK	2.39	2.06	7.4
823	Bur oak	37	42	120	38	48	271	34	720	2.86	0.91	1.14	6.45	0.81	17.14	No Change	Lg. Inc.	DRO FTK		2.77	-0.16	6.4
601	Butternut	22	3	1	0	0	0	0	0	0.33	0	0	0	0	0	Lg. Dec.	Lg. Dec.		FTK COL DRO DISE	-1.41	-1.27	2.3
973	Cedar elm	0	0	16	265	21	332	21	310	New	New	New	New	New	New	New Habitat	New Habitat		DISE	-0.27	-1.17	3.3
813	Cherrybark oak	8	29	21	13	22	15	23	11	0.72	0.45	0.76	0.52	0.79	0.38	Sm. Dec.	Lg. Dec.		INS FTK	-0.51	0.06	3.9
832	Chestnut oak	3	72	41	43	21	85	147	102	0.57	0.60	0.29	1.18	2.04	1.42	Lg. Inc.	Sm. Inc.	SES VRE EHS FTK	INS DISE	1.39	1.29	6.1
826	Chinkapin oak	400	375	484	321	397	234	464	241	1.29	0.86	1.06	0.62	1.24	0.64	Sm. Inc.	Sm. Dec.	TGR		1.18	-0.66	4.8
381	Chittamwood	50	45	28	42	27	51	25	50	0.62	0.93	0.60	1.13	0.56	1.11	Sm. Dec.	No Change	DRO TGR	FTK COL	1.97	-0.4	5.6
521	Common persimmon	370	362	372	479	358	438	331	414	1.03	1.32	0.99	1.21	0.91	1.14	No Change	No Change	COL EHS		1.18	0.95	5.8
742	Eastern cottonwood	55	98	110	115	87	290	82	346	1.12	1.17	0.89	2.96	0.84	3.53	No Change	Lg. Inc.	TGR	INS COL DISE FTK	0.22	-0.75	3.9
701	Eastern hophornbeam	150	211	249	322	208	516	264	650	1.18	1.53	0.99	2.45	1.25	3.08	Sm. Inc.	Lg. Inc.	COL EHS TGR		1.72	1.29	6.4
68	Eastern red cedar	1344	1350	1404	1380	1465	1260	1592	1158	1.04	1.02	1.09	0.93	1.18	0.86	No Change	No Change	DRO	FTK COL INS	0.56	-1.48	3.9
471	Eastern redbud	204	247	271	407	246	252	253	249	1.10	1.65	1.00	1.02	1.02	1.01	No Change	No Change			0.9	-0.03	4.9
491	Flowering dogwood	940	976	936	627	929	590	936	608	0.96	0.64	0.95	0.61	0.96	0.62	No Change	Sm. Dec.	COL		0.07	0.95	5.0
544	Green ash	244	283	362	462	315	604	362	685	1.28	1.63	1.11	2.13	1.28	2.42	Sm. Inc.	Lg. Inc.		INS FTK COL	-0.13	-0.25	4.0
462	Hackberry	430	498	741	447	528	485	608	537	1.49	0.90	1.06	0.97	1.22	1.08	Sm. Inc.	No Change	DRO	FTK	1.66	0.3	5.7
552	Honeylocust	212	246	302	331	215	513	241	595	1.23	1.35	0.87	2.09	0.98	2.42	No Change	Lg. Inc.		COL	1.91	-0.54	5.5
105	Jack pine	0	0	0	0	0	0	0	19	NA	NA	NA	NA	NA	New	NA	New Habitat	DRO	COL INS	1.87	-1.24	5.2
131	Loblolly pine	0	16	81	176	133	457	442	489	5.06	11.00	8.31	28.56	27.63	30.56	Lg. Inc.	Lg. Inc.	EHS	INS INP DRO COL	-0.51	-0.66	3.4
121	Longleaf pine	0	0	6	0	0	0	45	0	New	NA	NA	NA	New	NA	New Habitat	NA	FTK	COL	0.96	-1.74	4.2
409	Mockernut hickory	722	714	741	818	760	842	781	808	1.04	1.15	1.06	1.18	1.09	1.13	No Change	No Change		FTK	1.69	-0.28	5.4
452	Northern catalpa	2	2	1	4	1	3	2	4	0.50	2.00	0.50	1.50	1.00	2.00	No Change	No Change		COL EHS	0.93	-1.58	4.2
809	Northern pin oak	0	2	1	0	0	3	0	78	0.50	0	0	1.50	0	39.00	Lg. Dec.	Lg. Inc.	DRO FTK	COL	2.52	-0.56	6.0
833	Northern red oak	557	625	720	624	666	534	773	406	1.15	1.00	1.07	0.85	1.24	0.65	Sm. Inc.	Sm. Dec.		INS	1.39	0.13	5.4
828	Nuttall oak	1	2	7	1	4	1	5	1	3.50	0.50	2.00	0.50	2.50	0.50	No Change	Sm. Dec.	EHS		2.83	-0.09	6.5
331	Ohio buckeye	40	17	4	5	2	2	2	2	0.24	0.29	0.12	0.12	0.12	0.12	Lg. Dec.	Lg. Dec.	COL	SES FTK	0.38	-1.92	3.5
641	Osage-orange	155	187	412	229	270	296	334	333	2.20	1.23	1.44	1.58	1.79	1.78	Sm. Inc.	Sm. Inc.	EHS ESP		2.32	0.33	6.3
822	Overcup oak	19	8	14	28	13	32	13	33	1.75	3.50	1.63	4.00	1.63	4.13	No Change	Sm. Inc.		FTK INS DRO	-0.51	-0.95	3.2

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		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							
367	Pawpaw	78	39	62	25	42	7	37	8	1.59	0.64	1.08	0.18	0.95	0.21	No Change	Lg. Dec.	COL	DRO	-0.48	-0.32	3.7
404	Pecan	16	84	104	51	73	62	86	68	1.24	0.61	0.87	0.74	1.02	0.81	No Change	No Change		FTK INS COL	-1.24	-1.7	2.2
403	Pignut hickory	778	744	652	482	538	653	447	674	0.88	0.65	0.72	0.88	0.60	0.91	Sm. Dec.	No Change	EHS	INS DRO	0.22	0.4	4.7
830	Pin oak	62	94	188	133	124	157	165	159	2.00	1.42	1.32	1.67	1.76	1.69	Sm. Inc.	Sm. Inc.		FTK COL INS DISE	-0.65	-1.39	2.8
835	Post oak	3292	3130	3468	3819	3243	4051	3410	4035	1.11	1.22	1.04	1.29	1.09	1.29	No Change	Sm. Inc.	DRO TGR FTK	COL INS DISE	2.17	-0.59	5.7
746	Quaking aspen	0	0	0	0	0	0	0	15	NA	NA	NA	NA	NA	New	NA	New Habitat	TGR FRG EHS	COL DRO FTK	0.56	0.01	4.7
316	Red maple	218	329	405	539	353	709	462	721	1.23	1.64	1.07	2.16	1.40	2.19	Sm. Inc.	Lg. Inc.	SES EHS ESP	COL DISP	3	3	8.5
682	Red mulberry	252	276	362	326	293	380	288	493	1.31	1.18	1.06	1.38	1.04	1.79	No Change	Sm. Inc.	COL DISP	FTK	0.07	0.59	4.7
373	River birch	30	20	28	21	24	49	26	106	1.40	1.05	1.20	2.45	1.30	5.30	No Change	Sm. Inc.	DISP	FTK COL DRO	-0.45	-0.32	3.7
977	Rock elm	54	19	47	16	24	0	13	0	2.47	0.84	1.26	0	0.68	0	No Change	Lg. Dec.		EHS ESP SES	-0.2	-2.61	2.8
931	Sassafras	520	597	561	451	510	407	473	407	0.94	0.76	0.85	0.68	0.79	0.68	Sm. Dec.	Sm. Dec.		COL FTK	0.48	-0.64	4.2
806	Scarlet oak	632	573	467	238	361	190	286	194	0.82	0.42	0.63	0.33	0.50	0.34	Lg. Dec.	Lg. Dec.	VRE EHS ESP	INS DISE FTK	-0.35	0.71	4.6
407	Shagbark hickory	521	539	564	343	432	288	447	307	1.05	0.64	0.80	0.53	0.83	0.57	No Change	Sm. Dec.		INS FTK	-0.2	0.37	4.4
405	Shellbark hickory	54	25	22	42	12	24	5	22	0.88	1.68	0.48	0.96	0.20	0.88	Lg. Dec.	No Change	COL	FTK EHS	-0.48	-0.3	3.7
817	Shingle oak	198	163	165	191	108	208	79	234	1.01	1.17	0.66	1.28	0.49	1.44	Lg. Dec.	Sm. Inc.	EHS	COL	1.31	-0.74	4.9
110	Shortleaf pine	488	530	739	1059	855	1336	1165	1273	1.39	2.00	1.61	2.52	2.20	2.40	Lg. Inc.	Lg. Inc.	EHS	COL INS DRO	0	-0.97	3.6
834	Shumard oak	22	6	30	146	38	162	59	168	5.00	24.33	6.33	27.00	9.83	28.00	Lg. Inc.	Lg. Inc.	DRO TGR	COL	2.45	-1.02	5.8
317	Silver maple	131	226	360	387	204	535	181	615	1.59	1.71	0.90	2.37	0.80	2.72	No Change	Lg. Inc.	DISP SES COL	DRO FTK	0.13	1.63	5.6
111	Slash pine	0	0	3	7	0	17	27	95	New	New	NA	New	New	New	New Habitat	New Habitat	DISP FTK	COL INS	1.14	-1.67	4.3
975	Slippery elm	427	447	412	318	319	253	292	253	0.92	0.71	0.71	0.57	0.65	0.57	Sm. Dec.	Sm. Dec.	COL	FTK DISE	0.03	0.68	4.8
711	Sourwood	0	3	0	0	6	0	35	0	0	0	2.00	0	11.67	0	Lg. Inc.	Lg. Dec.	COL EHS		2.59	0.98	6.9
812	Southern red oak	107	95	286	374	351	405	410	374	3.01	3.94	3.70	4.26	4.32	3.94	Lg. Inc.	Lg. Inc.	TGR		1.21	0.21	5.3
318	Sugar maple	421	509	516	216	401	34	379	28	1.01	0.42	0.79	0.07	0.75	0.06	Sm. Dec.	Lg. Dec.	COL EHS		0.86	1.34	5.8
461	Sugarberry	10	18	121	464	153	457	205	446	6.72	25.78	8.50	25.39	11.39	24.78	Lg. Inc.	Lg. Inc.	COL SES	FTK	-0.17	0.64	4.6
694	Swamp tupelo	51	13	11	31	6	32	36	24	0.85	2.39	0.46	2.46	2.77	1.85	No Change	No Change		DRO FTK COL EHS	-0.65	-1.7	2.7
804	Swamp white oak	28	22	16	7	7	0	6	0	0.73	0.32	0.32	0	0.27	0	Sm. Dec.	Lg. Dec.			1.04	-0.3	4.9
611	Sweetgum	29	95	205	150	211	211	392	192	2.16	1.58	2.22	2.22	4.13	2.02	Lg. Inc.	Lg. Inc.	VRE EHS	FTK COL DRO	-0.41	0.18	4.1
731	Sycamore	245	283	281	305	277	286	293	289	0.99	1.08	0.98	1.01	1.04	1.02	No Change	No Change			1.28	-0.9	4.8
132	Virginia pine	2	36	22	33	33	130	143	143	0.61	0.92	0.92	3.61	3.97	3.97	Lg. Inc.	Lg. Inc.		COL POL	0.1	-0.81	3.8
827	Water oak	0	0	3	99	27	358	98	344	New	New	New	New	New	New	New Habitat	New Habitat	TGR	FTK COL	-0.17	-0.59	3.7
541	White ash	552	597	527	459	494	405	505	410	0.88	0.77	0.83	0.68	0.85	0.69	No Change	Sm. Dec.		INS FTK COL	-2.01	-0.54	2.7
802	White oak	3300	3061	2600	2082	2561	1558	2360	1489	0.85	0.68	0.84	0.51	0.77	0.49	Sm. Dec.	Lg. Dec.	EHS ESP TGR FTK	INS DISE	1.66	1	6.1
766	Wild plum	70	12	117	31	43	13	81	94	9.75	2.58	3.58	1.08	6.75	7.83	Sm. Inc.	Sm. Inc.		COL	0.48	-1.34	3.9
831	Willow oak	5	19	16	24	18	30	34	27	0.84	1.26	0.95	1.58	1.79	1.42	No Change	No Change	SES TGR	COL	0.63	-0.01	4.7
971	Winged elm	239	243	586	1316	773	1406	912	1197	2.41	5.42	3.18	5.79	3.75	4.93	Lg. Inc.	Lg. Inc.		INS DISE	-0.58	-0.3	3.6
621	Yellow-poplar	28	116	101	94	114	142	214	174	0.87	0.81	0.98	1.22	1.85	1.50	Sm. Inc.	Sm. Inc.	SES DISP EHS	INP	0.13	1.26	5.3