

MidAtlantic Forests
(summary of TreeAtlas results 2015-see companion file for keys to interpret)
USFS Northern Research Station-Landscape Change Research Group, Delaware OH Page 1 of 4

FIA	Common Name	DISTRIB Results (suitable habitat)																				
		Current IV		Modeled IV						Future : Current						Change Class		Modifying Factors				
		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	502	569	484	531	494	440	491	362	0.85	0.93	0.87	0.77	0.86	0.64	No Change	Small decrease	COL	FTK	0.31	0.16	4.6
531	American beech	3308	3309	3085	2117	2741	1346	2612	1041	0.93	0.64	0.83	0.41	0.79	0.32	Small decrease	Large decrease	COL	INS FTK	-1.14	0.03	3.6
421	American chestnut	108	40	79	66	78	51	80	40	1.98	1.65	1.95	1.28	2.00	1.00	No Change	No Change	COL	DISE FTK	0.13	0.3	4.5
972	American elm	943	1221	1007	1839	1007	2265	1095	2325	0.83	1.51	0.83	1.86	0.90	1.90	No Change	Small increase	EHS	DISE INS	-0.8	0.3	4.0
591	American holly	235	238	262	248	292	187	277	161	1.10	1.04	1.23	0.79	1.16	0.68	No Change	Small decrease	COL EHS	FTK	-0.1	0.47	4.5
391	American hornbeam:musc	791	839	754	807	757	831	781	806	0.90	0.96	0.90	0.99	0.93	0.96	No Change	No Change	COL SES	FTK DRO	0.56	0.62	5.1
935	American mountain-ash	9	0	3	1	2	1	1	1	0.33	0.11	0.22	0.11	0.11	0.11	Large decrease	Large decrease		FTK COL EHS	-0.23	-1.62	3.1
43	Atlantic white-cedar	82	71	60	48	52	44	49	41	0.85	0.68	0.73	0.62	0.69	0.58	Small decrease	Small decrease	DISP	FTK DRO EHS	-0.61	-1.21	3.0
221	Baldcypress	1	22	29	78	53	105	82	168	1.32	3.55	2.41	4.77	3.73	7.64	No Change	Small increase	DISP	FTK	0.38	-1.02	3.9
12	Balsam fir	21	91	28	12	12	4	12	6	0.31	0.13	0.13	0.04	0.13	0.07	Large decrease	Large decrease	COL	INS FTK DRO	-3	-0.35	2.7
741	Balsam poplar	13	6	2	2	2	1	2	2	0.33	0.33	0.33	0.17	0.33	0.33	Small decrease	Small decrease	FRG VRE	COL DRO	0.13	-0.59	4.0
816	Bear oak:scrub oak	192	110	140	178	146	195	162	183	1.27	1.62	1.33	1.77	1.47	1.66	Small increase	Small increase	FRG VRE	COL FTK	1.04	-0.81	4.6
743	Bigtooth aspen	553	610	532	446	510	190	490	54	0.87	0.73	0.84	0.31	0.80	0.09	No Change	Large decrease	FRG DISP	COL DRO FTK	1.01	0.16	5.1
402	Bitternut hickory	91	66	66	260	81	502	116	654	1.00	3.94	1.23	7.61	1.76	9.91	Small increase	Large increase	DRO	COL	2.17	-0.83	5.6
543	Black ash	131	133	76	41	57	12	44	9	0.57	0.31	0.43	0.09	0.33	0.07	Large decrease	Large decrease		INS COL DISP DRO SES FTK ESP	-1.31	-3	1.7
762	Black cherry	5163	4927	4702	3762	4369	2124	4299	1483	0.95	0.76	0.89	0.43	0.87	0.30	No Change	Large decrease	DRO EHS	INS FTK COL	-1.56	-0.32	3.0
408	Black hickory	0	15	40	333	62	1159	106	1926	2.67	22.20	4.13	77.27	7.07	128.40	New habitat	New habitat		EHS COL	1.04	-2.27	4.1
901	Black locust	637	732	774	845	862	989	853	989	1.06	1.15	1.18	1.35	1.17	1.35	No Change	Small increase		COL INS	0	-0.59	3.8
314	Black maple	5	12	4	2	5	0	4	0	0.33	0.17	0.42	0.00	0.33	0.00	Small decrease	Large decrease	COL EHS	FTK	0.48	0.9	5.2
837	Black oak	1099	1379	1389	1972	1531	2974	1599	3501	1.01	1.43	1.11	2.16	1.16	2.54	No Change	Large increase	DRO EHS	INS DISE	0.51	0.42	4.9
95	Black spruce	13	8	6	2	4	0	2	0	0.75	0.25	0.50	0.00	0.25	0.00	Large decrease	Large decrease	COL EHS DISP	FTK INS DRO	-2.14	1.24	4.3
602	Black walnut	363	440	438	740	534	914	623	868	1.00	1.68	1.21	2.08	1.42	1.97	Small increase	Small increase	SES	COL DRO	0.35	-0.83	4.0
922	Black willow	352	345	261	531	251	616	288	737	0.76	1.54	0.73	1.79	0.84	2.14	No Change	Large increase		COL FTK DRO	-0.31	-2.13	2.8
693	Blackgum	1053	1060	1135	1195	1222	1329	1273	1465	1.07	1.13	1.15	1.25	1.20	1.38	Small increase	Small increase	COL FTK		1.46	0.83	5.9
824	Blackjack oak	10	30	49	240	76	876	112	1653	1.63	8.00	2.53	29.20	3.73	55.10	No Change	Large increase	DRO SES FRG VRE	COL FTK	1.56	0.21	5.6
313	Boxelder	371	338	321	393	334	414	355	483	0.95	1.16	0.99	1.23	1.05	1.43	No Change	Small increase	SES DISP DRO COL TGR	FTK	2.39	2.06	7.4
823	Bur oak	29	17	13	41	11	76	13	159	0.77	2.41	0.65	4.47	0.77	9.35	No Change	Large increase	DRO FTK		2.77	-0.16	6.4
601	Butternut	113	64	70	44	57	15	42	10	1.09	0.69	0.89	0.23	0.66	0.16	Small decrease	Large decrease		FTK COL DRO DISE	-1.41	-1.27	2.3
973	Cedar elm	0	0	0	23	0	117	1	352	NA	New	NA	New	NA	New	NA	New habitat		DISE	-0.27	-1.17	3.3
813	Cherrybark oak	6	9	19	39	25	94	33	142	2.11	4.33	2.78	10.44	3.67	15.78	Small decrease	Large decrease		INS FTK	-0.51	0.06	3.9
832	Chestnut oak	2048	1985	2189	2068	2379	1978	2344	1654	1.10	1.04	1.20	1.00	1.18	0.83	No Change	No Change	SES VRE EHS FTK	INS DISE	1.39	1.29	6.1
826	Chinkapin oak	8	14	23	152	37	422	58	556	1.64	10.86	2.64	30.14	4.14	39.71	Small increase	Large increase	TGR		1.18	-0.66	4.8

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USFS Northern Research Station-Landscape Change Research Group, Delaware OH Page 2 of 4

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		FIA IV	Modeled	2010 - 2039		2040 - 2069		2070 - 2099		2010 - 2039		2040 - 2069		2070 - 2099		PCM B1	GFDL A1FI	Positive Traits	Negative Traits	DistFact	BioFact	Adapt			
763	Chokecherry	342	275	240	123	225	13	207	3	0.87	0.45	0.82	0.05	0.75	0.01	Small decrease	Large decrease	COL		0.18	-0.86	3.8			
521	Common persimmon	47	79	116	403	150	1126	185	1821	1.47	5.10	1.90	14.25	2.34	23.05	Large increase	Large increase	COL EHS		1.18	0.95	5.8			
651	Cucumbertree	129	87	115	78	117	54	121	52	1.32	0.90	1.35	0.62	1.39	0.60	Small increase	Small decrease	FTK		0.03	-1.05	3.6			
742	Eastern cottonwood	166	169	141	363	131	729	153	1196	0.83	2.15	0.78	4.31	0.91	7.08	No Change	Large increase	TGR	INS COL DISE FTK	0.22	-0.75	3.9			
261	Eastern hemlock	1770	1794	1589	1396	1444	889	1424	704	0.89	0.78	0.81	0.50	0.79	0.39	Small decrease	Large decrease	COL	INS DRO	-1.34	-0.88	2.7			
701	Eastern hophornbeam	964	1031	926	990	897	1062	919	1201	0.90	0.96	0.87	1.03	0.89	1.17	No Change	No Change	COL EHS TGR		1.72	1.29	6.4			
68	Eastern red cedar	362	449	485	1267	604	2341	751	2800	1.08	2.82	1.35	5.21	1.67	6.24	Small increase	Large increase	DRO	FTK COL INS	0.56	-1.48	3.9			
471	Eastern redbud	38	63	80	318	140	804	193	947	1.27	5.05	2.22	12.76	3.06	15.03	Large increase	Large increase			0.9	-0.03	4.9			
129	Eastern white pine	1274	1500	1305	1320	1234	964	1200	701	0.87	0.88	0.82	0.64	0.80	0.47	Small decrease	Large decrease	DISP	DRO FTK INS	-1.97	0.13	3.3			
491	Flowering dogwood	791	992	1096	1633	1369	2233	1476	2202	1.11	1.65	1.38	2.25	1.49	2.22	Small increase	Large increase	COL		0.07	0.95	5.0			
379	Gray birch	185	167	132	144	120	103	129	91	0.79	0.86	0.72	0.62	0.77	0.55	Small decrease	Small decrease	DISP EHS	FTK COL INS DISE	-1.14	0.03	3.6			
544	Green ash	331	346	293	427	288	601	310	815	0.85	1.23	0.83	1.74	0.90	2.36	No Change	Large increase		INS FTK COL	-0.13	-0.25	4.0			
462	Hackberry	65	112	89	484	125	973	169	1199	0.80	4.32	1.12	8.69	1.51	10.71	Small increase	Large increase	DRO	FTK	1.66	0.3	5.7			
552	Honeylocust	7	24	17	188	26	556	45	1030	0.71	7.83	1.08	23.17	1.88	42.92	No Change	Large increase		COL	1.91	-0.54	5.5			
105	Jack pine	7	16	4	4	1	0	1	0	0.25	0.25	0.06	0.00	0.06	0.00	Large decrease	Large decrease	DRO	COL INS	1.87	-1.24	5.2			
820	Laurel oak**	0	0	0	1	5	12	10	30	NA	NA	New	New	New	New	New habitat	New habitat	COL TGR	FTK	0.18	0.13	4.5			
131	Loblolly pine	343	395	498	619	653	843	661	1388	1.26	1.57	1.65	2.13	1.67	3.51	Small increase	Large increase	EHS	INS INP DRO COL	-0.51	-0.66	3.4			
121	Longleaf pine**	0	3	0	4	10	11	66	16	0.00	1.33	3.33	3.67	22.00	5.33	New habitat	New habitat	FTK	COL	0.96	-1.74	4.2			
409	Mockernut hickory	495	702	643	842	770	1197	782	1424	0.92	1.20	1.10	1.71	1.11	2.03	No Change	Large increase		FTK	1.69	-0.28	5.4			
319	Mountain maple	27	4	7	4	3	0	2	0	1.75	1.00	0.75	0.00	0.50	0.00	Small decrease	Large decrease	COL VRE EHS	DRO FTK	0.8	1.48	5.9			
452	Northern catalpa	16	5	6	6	6	5	6	26	1.20	1.20	1.20	1.00	1.20	5.20	No Change	Small increase		COL EHS	0.93	-1.58	4.2			
833	Northern red oak	2643	2708	2675	2656	2625	2479	2587	2277	0.99	0.98	0.97	0.92	0.96	0.84	No Change	No Change		INS	1.39	0.13	5.4			
241	Northern white-cedar	28	71	18	8	11	9	10	12	0.25	0.11	0.16	0.13	0.14	0.17	Large decrease	Large decrease	COL	FTK	-0.7	0.49	4.2			
331	Ohio buckeye**	0	0	4	43	6	47	18	22	New	New	New	New	New	New	New habitat	New habitat	COL	SES FTK	0.38	-1.92	3.5			
641	Osage-orange	19	48	33	117	42	209	53	303	0.69	2.44	0.88	4.35	1.10	6.31	No Change	Small increase	EHS ESP		2.32	0.33	6.3			
822	Overcup oak**	0	9	0	10	1	57	3	93	0.00	1.11	0.11	6.33	0.33	10.33	NA	New habitat		FTK INS DRO	-0.51	-0.95	3.2			
375	Paper birch	138	175	124	73	75	3	63	1	0.71	0.42	0.43	0.02	0.36	0.01	Large decrease	Large decrease	FRG DISP EHS	FTK COL INS DRO	-1.72	0.18	3.4			
367	Pawpaw	65	47	46	84	54	115	80	116	0.98	1.79	1.15	2.45	1.70	2.47	No Change	No Change	COL	DRO	-0.48	-0.32	3.7			
403	Pignut hickory	581	835	765	1024	914	1294	983	1276	0.92	1.23	1.10	1.55	1.18	1.53	No Change	Small increase	EHS	INS DRO	0.22	0.4	4.7			
761	Pin cherry	194	141	126	39	94	11	82	9	0.89	0.28	0.67	0.08	0.58	0.06	Small decrease	Large decrease	SES FRG FTK	COL	0.45	-0.68	4.2			
830	Pin oak	144	157	152	286	171	343	243	329	0.97	1.82	1.09	2.19	1.55	2.10	Small increase	Large increase		FTK COL INS DISE	-0.65	-1.39	2.8			
126	Pitch pine	691	567	564	521	493	545	478	584	1.00	0.92	0.87	0.96	0.84	1.03	No Change	No Change		COL INS	0.56	-1.79	3.8			
128	Pond pine	6	1	5	33	5	59	23	61	5.00	33.00	5.00	59.00	23.00	61.00	Large increase	Large increase		DRO COL INS DISP	-1.06	-1.51	2.4			

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USFS Northern Research Station-Landscape Change Research Group, Delaware OH Page 3 of 4

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				2010 - 2039		2040 - 2069		2070 - 2099		2010 - 2039		2040 - 2069		2070 - 2099				Positive Traits	Negative Traits	DistFact	BioFact	Adapt
		Current 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	PCM B1	GFDL A1FI					
835	Post oak	23	100	203	984	300	3378	379	5705	2.03	9.84	3.00	33.78	3.79	57.05	Large increase	Large increase	DRO TGR FTK	COL INS DISE	2.17	-0.59	5.7
746	Quaking aspen	771	851	678	380	519	34	445	8	0.80	0.45	0.61	0.04	0.52	0.01	Small decrease	Large decrease	TGR FRG EHS	COL DRO FTK	0.56	0.01	4.7
316	Red maple	8807	8789	8664	7374	8477	5012	8400	3755	0.99	0.84	0.97	0.57	0.96	0.43	No Change	Large decrease	SES EHS ESP COL DISP		3	3	8.5
682	Red mulberry	21	21	19	253	26	713	50	1188	0.91	12.05	1.24	33.95	2.38	56.57	No Change	Large increase	COL DISP	FTK	0.07	0.59	4.7
125	Red pine	209	252	172	169	151	31	145	15	0.68	0.67	0.60	0.12	0.58	0.06	Small decrease	Large decrease		INS COL DISP	0.86	-2.42	3.9
97	Red spruce	59	75	36	39	30	20	32	16	0.48	0.52	0.40	0.27	0.43	0.21	Large decrease	Large decrease	EHS COL	FTK SES	-1.28	-0.62	2.9
721	Redbay**	0	0	0	0	0	0	11	0	NA	NA	NA	NA	New	NA	New habitat	NA	INS DISP COL		2.59	-0.1	6.3
373	River birch	37	21	20	27	21	28	29	53	0.95	1.29	1.00	1.33	1.38	2.52	No Change	No Change	DISP	FTK COL DRO	-0.45	-0.32	3.7
977	Rock elm	8	7	8	33	7	36	24	63	1.14	4.71	1.00	5.14	3.43	9.00	No Change	Large increase		EHS ESP SES	-0.2	-2.61	2.8
931	Sassafras	1128	1191	1258	1403	1387	1480	1512	1484	1.06	1.18	1.17	1.24	1.27	1.25	Small increase	Small increase		COL FTK	0.48	-0.64	4.2
806	Scarlet oak	621	655	705	762	824	936	818	987	1.08	1.16	1.26	1.43	1.25	1.51	Small increase	Small increase	VRE EHS ESP	INS DISE FTK	-0.35	0.71	4.6
356	Serviceberry	665	608	618	578	610	491	608	444	1.02	0.95	1.00	0.81	1.00	0.73	No Change	Small decrease	COL SES	DRO	-0.38	0.98	4.8
407	Shagbark hickory	187	254	227	505	272	774	330	840	0.89	1.99	1.07	3.05	1.30	3.31	Small increase	Large increase		INS FTK	-0.2	0.37	4.4
405	Shellbark hickory	4	1	0	47	0	106	2	131	0.00	47.00	0.00	106.00	2.00	131.00	No Change	Large increase	COL	FTK EHS	-0.48	-0.3	3.7
817	Shingle oak	26	14	18	127	23	309	44	367	1.29	9.07	1.64	22.07	3.14	26.21	No Change	Large increase	EHS	COL	1.31	-0.74	4.9
110	Shortleaf pine	35	74	99	268	109	954	131	1911	1.34	3.62	1.47	12.89	1.77	25.82	Small increase	Large increase	EHS	COL INS DRO	0	-0.97	3.6
834	Shumard oak**	0	0	0	6	0	80	0	234	NA	New	NA	New	NA	New	NA	New habitat	DRO TGR DISP SES	COL	2.45	-1.02	5.8
317	Silver maple	227	321	183	674	187	976	244	1152	0.57	2.10	0.58	3.04	0.76	3.59	Small decrease	Large increase	COL	DRO FTK	0.13	1.63	5.6
111	Slash pine	0	0	0	0	0	17	21	98	NA	NA	NA	New	New	New	New habitat	New habitat	DISP FTK	COL INS	1.14	-1.67	4.3
975	Slippery elm	373	452	419	654	480	770	528	792	0.93	1.45	1.06	1.70	1.17	1.75	No Change	Small increase	COL	FTK DISE	0.03	0.68	4.8
711	Sourwood	2	28	77	22	169	14	146	42	2.75	0.79	6.04	0.50	5.21	1.50	Small increase	No Change	COL EHS		2.59	0.98	6.9
812	Southern red oak	138	148	181	256	203	506	217	973	1.22	1.73	1.37	3.42	1.47	6.57	Small increase	Large increase	TGR		1.21	0.21	5.3
315	Striped maple	677	651	626	509	591	348	549	292	0.96	0.78	0.91	0.54	0.84	0.45	No Change	Large decrease	COL SES	DRO	0.96	0.25	5.1
318	Sugar maple	4411	4707	4323	3983	4073	3224	4148	2373	0.92	0.85	0.87	0.69	0.88	0.50	No Change	Small decrease	COL EHS		0.86	1.34	5.8
461	Sugarberry**	0	8	9	79	16	315	27	767	1.13	9.88	2.00	39.38	3.38	95.88	New habitat	New habitat	COL SES	FTK	-0.17	0.64	4.6
825	Swamp chestnut oak	15	8	11	18	15	19	16	17	1.38	2.25	1.88	2.38	2.00	2.13	No Change	No Change	TGR	COL INS	1.08	-0.81	4.6
694	Swamp tupelo	3	18	20	57	54	72	146	77	1.11	3.17	3.00	4.00	8.11	4.28	Large increase	Small increase		DRO FTK COL EHS	-0.65	-1.7	2.7
804	Swamp white oak	87	69	53	80	59	85	67	69	0.77	1.16	0.86	1.23	0.97	1.00	No Change	No Change			1.04	-0.3	4.9
372	Sweet birch	1817	1667	1787	1460	1785	1056	1736	810	1.07	0.88	1.07	0.63	1.04	0.49	No Change	Large decrease	DISP	FTK COL INS DISE	-1.28	-0.32	3.2
653	Sweetbay	58	68	53	60	61	56	92	62	0.78	0.88	0.90	0.82	1.35	0.91	Small increase	No Change	FTK	INS	1.39	-0.47	5.1
611	Sweetgum	723	740	810	1033	931	1269	1054	1749	1.10	1.40	1.26	1.72	1.42	2.36	Small increase	Large increase	VRE EHS	FTK COL DRO	-0.41	0.18	4.1
731	Sycamore	155	187	210	371	247	614	288	664	1.12	1.98	1.32	3.28	1.54	3.55	Small increase	Large increase			1.28	-0.9	4.8
123	Table Mountain pine	7	2	1	2	1	4	1	6	0.50	1.00	0.50	2.00	0.50	3.00	NA	No Change	DRO	COL	2.55	-1.12	5.9

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USFS Northern Research Station-Landscape Change Research Group, Delaware OH Page 4 of 4

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		Current IV		Modeled IV						Future : Current						Change Class		Modifying Factors				
		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									
71	Tamarack (native)	43	21	15	13	10	6	8	7	0.71	0.62	0.48	0.29	0.38	0.33	Small decrease	Small decrease	FTK COL INS	-0.48	-1.24	3.1	
819	Turkey oak	0	0	0	1	2	0	29	8	NA	NA	NA	NA	New	New	New habitat	New habitat	SES DRO TGR	COL	2.62	-0.88	6.0
132	Virginia pine	458	514	503	353	571	501	474	603	0.98	0.69	1.11	0.98	0.92	1.17	No Change	No Change	COL POL	0.1	-0.81	3.8	
401	Water hickory	0	0	0	0	0	19	0	24	NA	NA	NA	New	NA	New	NA	New habitat	FTK EHS	0.03	-0.64	3.8	
827	Water oak	44	48	75	115	95	282	96	532	1.56	2.40	1.98	5.88	2.00	11.08	No Change	Large increase	TGR	FTK COL	-0.17	-0.59	3.7
691	Water tupelo	20	25	18	43	43	59	61	82	0.72	1.72	1.72	2.36	2.44	3.28	No Change	No Change	DRO FTK COL EHS	-0.86	-2.05	2.3	
541	White ash	5067	4834	4530	4272	4285	3295	4326	2556	0.94	0.88	0.89	0.68	0.90	0.53	No Change	Small decrease	INS FTK COL	-2.01	-0.54	2.7	
802	White oak	1809	2197	2239	2829	2394	3667	2437	3909	1.02	1.29	1.09	1.67	1.11	1.78	No Change	Small increase	EHS ESP TGR FTK	INS DISE	1.66	1	6.1
94	White spruce	87	56	35	23	26	14	20	12	0.63	0.41	0.46	0.25	0.36	0.21	Large decrease	Large decrease	INS	0.07	-0.62	3.9	
831	Willow oak	54	62	65	113	77	204	84	280	1.05	1.82	1.24	3.29	1.36	4.52	Small increase	Large increase	SES TGR	COL	0.63	-0.01	4.7
971	Winged elm	1	15	79	335	129	1157	190	2365	5.27	22.33	8.60	77.13	12.67	157.67	Large increase	Large increase	INS DISE	-0.58	-0.3	3.6	
371	Yellow birch	601	635	572	395	527	190	526	163	0.90	0.62	0.83	0.30	0.83	0.26	No Change	Large decrease	DISP	FTK INS DISE	-1.38	-0.03	3.4
332	Yellow buckeye	12	10	8	6	8	8	11	8	0.80	0.60	0.80	0.80	1.10	0.80	No Change	No Change	COL	DRO SES FTK EHS DISP	-0.03	-2.13	3.1
621	Yellow-poplar	1308	1348	1536	1230	1744	1139	1737	984	1.14	0.91	1.29	0.85	1.29	0.73	Small increase	Small decrease	SES DISP EHS	INP	0.13	1.26	5.3

**Some evidence of it in the region but very rare