

FIA	Common Name	Current IV		DISTRIB Results (suitable habitat)															Change Class		Modifying Factors									
		Modeled IV		2010 - 2039			2040 - 2069			2070 - 2099			Future : Current			2010 - 2039			2040 - 2069			2070 - 2099			Change Class	Positive Traits	Negative Traits	DistFact	BioFact	Adapt
		FIA IV	Modeled	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI							
951	American basswood	35	40	39	69	46	85	44	134	0.98	1.73	1.15	2.13	1.10	3.35	No change	Large increase	COL	FTK	0.31	0.16	4.6								
531	American beech	758	696	684	640	635	526	620	461	0.98	0.92	0.91	0.76	0.89	0.66	No change	Small decrease	COL	INS FTK	-1.14	0.03	3.6								
972	American elm	47	78	91	146	116	252	141	287	1.17	1.87	1.49	3.23	1.81	3.68	Small increase	Large increase	EHS	DISE INS	-0.8	0.3	4.0								
391	American hornbeam:musclew	10	13	12	22	15	66	23	97	0.92	1.69	1.15	5.08	1.77	7.46	Small increase	Large increase	COL SES	FTK DRO	0.56	0.62	5.1								
935	American mountain-ash	5	1	1	1	1	0	1	0	1.00	1.00	1.00	0.00	1.00	0.00	No change	Small decrease		FTK COL											
12	Balsam fir	2231	2061	1639	1021	1174	404	926	363	0.80	0.50	0.57	0.20	0.45	0.18	Large decrease	Large decrease	COL	DRO	-3	-0.35	2.7								
741	Balsam poplar	69	57	40	37	36	1	34	1	0.70	0.65	0.63	0.02	0.60	0.02	Small decrease	Large decrease	FRG VRE	COL DRO	0.13	-0.59	4.0								
743	Bigtooth aspen	216	202	208	215	208	175	215	130	1.03	1.06	1.03	0.87	1.06	0.64	No change	Small decrease	FRG DISP	FTK	1.01	0.16	5.1								
402	Bitternut hickory	0	1	1	2	1	42	1	101	1.00	2.00	1.00	42.00	1.00	101.00	NA	New habitat	DRO	COL	2.17	-0.83	5.6								
543	Black ash	108	133	110	133	109	116	113	86	0.83	1.00	0.82	0.87	0.85	0.65	No change	Small decrease		INS COL DISP DRO											
762	Black cherry	94	151	175	235	216	388	241	482	1.16	1.56	1.43	2.57	1.60	3.19	Small increase	Large increase	DRO EHS	INS FTK COL	-1.56	-0.32	3.0								
408	Black hickory	0	0	0	0	0	0	0	31	NA	NA	NA	NA	NA	New	NA	New habitat		EHS COL	1.04	-2.27	4.1								
901	Black locust	4	4	10	28	17	107	24	149	2.50	7.00	4.25	26.75	6.00	37.25	Small increase	Large increase		COL INS	0	-0.59	3.8								
837	Black oak	1	17	47	156	110	319	163	373	2.77	9.18	6.47	18.77	9.59	21.94	Large increase	Large increase	DRO EHS	INS DISE	0.51	0.42	4.9								
95	Black spruce	217	241	130	83	85	5	54	2	0.54	0.34	0.35	0.02	0.22	0.01	Large decrease	Large decrease	DISP	DRO	-2.14	1.24	4.3								
602	Black walnut	0	2	5	11	7	109	13	165	2.50	5.50	3.50	54.50	6.50	82.50	New habitat	New habitat	SES	COL DRO	0.35	-0.83	4.0								
922	Black willow	4	14	11	26	16	71	25	108	0.79	1.86	1.14	5.07	1.79	7.71	Small increase	Large increase		DRO											
693	Blackgum	0	5	4	8	9	52	13	102	0.80	1.60	1.80	10.40	2.60	20.40	New habitat	New habitat	COL FTK		1.46	0.83	5.9								
824	Blackjack oak	0	0	0	0	0	0	0	31	NA	NA	NA	NA	NA	New	NA	New habitat		FRG VRE SES DISP DRO COL	1.56	0.21	5.6								
313	Boxelder	0	17	6	57	10	147	22	174	0.35	3.35	0.59	8.65	1.29	10.24	New habitat	New habitat	TGR	FTK	2.39	2.06	7.4								
823	Bur oak	1	7	2	15	2	54	5	89	0.29	2.14	0.29	7.71	0.71	12.71	No change	Large increase	DRO FTK		2.77	-0.16	6.4								
813	Cherrybark oak	0	1	6	7	5	9	6	14	6.00	7.00	5.00	9.00	6.00	14.00	New habitat	New habitat		INS FTK	-0.51	0.06	3.9								
832	Chestnut oak	0	7	7	5	15	59	15	122	1.00	0.71	2.14	8.43	2.14	17.43	New habitat	New habitat	SES VRE	EHS FTK	1.39	1.29	6.1								
826	Chinkapin oak	0	0	0	0	0	5	0	31	NA	NA	NA	New	NA	New	NA	New habitat	TGR		1.18	-0.66	4.8								
763	Chokecherry	25	15	16	24	15	28	18	11	1.07	1.60	1.00	1.87	1.20	0.73	Small increase	Small decrease		COL	0.18	-0.86	3.8								
521	Common persimmon	0	0	0	0	0	17	0	103	NA	NA	NA	New	NA	New	NA	New habitat	COL EHS		1.18	0.95	5.8								
742	Eastern cottonwood	0	8	5	26	7	123	17	188	0.63	3.25	0.88	15.38	2.13	23.50	New habitat	New habitat	TGR	INS COL DISE FTK	0.22	-0.75	3.9								
261	Eastern hemlock	617	654	698	707	702	523	716	407	1.07	1.08	1.07	0.80	1.10	0.62	No change	Small decrease	COL	INS DRO	-1.34	-0.88	2.7								
701	Eastern hophornbeam	111	126	115	130	119	144	127	180	0.91	1.03	0.94	1.14	1.01	1.43	No change	Small increase		TGR	1.72	1.29	6.4								
471	Eastern redbud	0	0	0	0	0	23	0	88	NA	NA	NA	New	NA	New	NA	New habitat			0.9	-0.03	4.9								
68	Eastern red cedar	2	3	12	42	17	329	39	505	4.00	14.00	5.67	109.67	13.00	168.33	Small increase	Small increase	DRO	FTK COL INS	0.56	-1.48	3.9								

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		FIA IV	Modeled	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	GFDL A1FI					
129	Eastern white pine	582	701	718	706	774	645	791	541	1.02	1.01	1.10	0.92	1.13	0.77	No change	Small decrease	DISP	DRO FTK	-1.97	0.13	3.3
491	Flowering dogwood	1	2	6	18	14	132	19	220	3.00	9.00	7.00	66.00	9.50	110.00	Small increase	Small increase	COL	INS	0.07	0.95	5.0
379	Gray birch	196	189	185	178	174	103	175	99	0.98	0.94	0.92	0.55	0.93	0.52	No change	Small decrease	DISP EHS	FTK COL INS DISE	-1.14	0.03	3.6
544	Green ash	5	16	8	13	8	16	17	27	0.50	0.81	0.50	1.00	1.06	1.69	No change	Small increase		INS FTK COL	-0.13	-0.25	4.0
462	Hackberry	1	3	3	8	3	103	5	182	1.00	2.67	1.00	34.33	1.67	60.67	No change	Small increase	DRO	FTK	1.66	0.3	5.7
552	Honeylocust	0	3	3	7	3	93	4	157	1.00	2.33	1.00	31.00	1.33	52.33	NA	New habitat		COL	1.91	-0.54	5.5
105	Jack pine	8	27	7	42	9	72	13	55	0.26	1.56	0.33	2.67	0.48	2.04	Large decrease	Large increase	DRO	COL INS	1.87	-1.24	5.2
131	Loblolly pine	0	13	9	2	6	10	4	81	0.69	0.15	0.46	0.77	0.31	6.23	NA	New habitat	EHS	INS INP DRO	-0.51	-0.66	3.4
409	Mockernut hickory	0	1	4	3	9	46	8	84	4.00	3.00	9.00	46.00	8.00	84.00	New habitat	New habitat		FTK	1.69	-0.28	5.4
319	Mountain maple	61	78	42	30	30	1	20	0	0.54	0.39	0.39	0.01	0.26	0.00	Large decrease	Large decrease	COL VRE EHS	DRO FTK	0.8	1.48	5.9
809	Northern pin oak	0	3	0	26	1	26	0	25	0.00	8.67	0.33	8.67	0.00	8.33	NA	New habitat	DRO FTK	COL	2.52	-0.56	6.0
833	Northern red oak	168	227	387	471	442	588	494	595	1.71	2.08	1.95	2.59	2.18	2.62	Large increase	Large increase		INS	1.39	0.13	5.4
241	Northern white-cedar	920	906	614	538	484	213	413	162	0.68	0.59	0.53	0.24	0.46	0.18	Large decrease	Large decrease	COL	FTK	-0.7	0.49	4.2
641	Osage-orange	0	1	2	0	2	6	2	10	2.00	0.00	2.00	6.00	2.00	10.00	NA	New habitat	EHS ESP		2.32	0.33	6.3
375	Paper birch	518	505	461	419	401	185	379	87	0.91	0.83	0.79	0.37	0.75	0.17	Small decrease	Large decrease	FRG DISP EHS	FTK COL INS DRO	-1.72	0.18	3.4
367	Pawpaw	0	0	0	0	0	7	0	29	NA	NA	NA	New	NA	New	NA	New habitat	COL	DRO	-0.48	-0.32	3.7
403	Pignut hickory	0	2	13	26	29	117	40	179	6.50	13.00	14.50	58.50	20.00	89.50	New habitat	New habitat	EHS	INS DRO	0.22	0.4	4.7
761	Pin cherry	68	84	69	73	68	75	72	41	0.82	0.87	0.81	0.89	0.86	0.49	No change	Large decrease	SES FRG FTK	COL	0.45	-0.68	4.2
830	Pin oak	1	1	0	2	0	52	2	91	0.00	2.00	0.00	52.00	2.00	91.00	No change	Small increase		FTK COL INS DISE	-0.65	-1.39	2.8
126	Pitch pine	13	17	12	14	11	16	14	19	0.71	0.82	0.65	0.94	0.82	1.12	No change	No change		COL INS	0.56	-1.79	3.8
835	Post oak	0	0	0	0	0	16	0	165	NA	NA	NA	New	NA	New	NA	New habitat	DRO TGR FTK	COL INS DISE	2.17	-0.59	5.7
746	Quaking aspen	449	472	423	487	430	284	425	176	0.90	1.03	0.91	0.60	0.90	0.37	No change	Large decrease	TGR FRG EHS	COL DRO FTK	0.56	0.01	4.7
316	Red maple	1496	1525	1639	1610	1706	1653	1731	1513	1.08	1.06	1.12	1.08	1.14	0.99	No change	No change	SES EHS ESP COL		3	3	8.5
682	Red mulberry	1	2	3	13	3	168	8	256	1.50	6.50	1.50	84.00	4.00	128.00	Small increase	Small increase	DISP	FTK	0.07	0.59	4.7
125	Red pine	64	66	69	93	76	171	95	165	1.05	1.41	1.15	2.59	1.44	2.50	Small increase	Large increase		INS COL DISP	0.86	-2.42	3.9
97	Red spruce	879	817	588	400	422	272	399	274	0.72	0.49	0.52	0.33	0.49	0.34	Large decrease	Large decrease	EHS COL	FTK SES	-1.28	-0.62	2.9
373	River birch	0	0	0	7	0	0	0	0	NA	New	NA	NA	NA	NA	NA	New habitat		FTK COL			
931	Sassafras**	0	2	8	14	16	105	23	173	4.00	7.00	8.00	52.50	11.50	86.50	New habitat	New habitat		COL FTK	0.48	-0.64	4.2
806	Scarlet oak	0	1	15	19	28	101	35	156	15.00	19.00	28.00	101.00	35.00	156.00	New habitat	New habitat	VRE EHS ESP	INS DISE FTK	-0.35	0.71	4.6
356	Serviceberry	11	14	9	19	15	21	16	19	0.64	1.36	1.07	1.50	1.14	1.36	No change	Small increase	COL SES	DRO	-0.38	0.98	4.8
407	Shagbark hickory	0	5	8	18	13	102	19	124	1.60	3.60	2.60	20.40	3.80	24.80	New habitat	New habitat		INS FTK	-0.2	0.37	4.4
405	Shellbark hickory	0	0	0	0	0	1	0	23	NA	NA	NA	NA	NA	New	NA	New habitat	COL	FTK EHS	-0.48	-0.3	3.7
817	Shingle oak	0	0	0	0	0	15	0	65	NA	NA	NA	New	NA	New	NA	New habitat	EHS	COL	1.31	-0.74	4.9

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		Current IV		2010 - 2039		2040 - 2069		2070 - 2099		2010 - 2039		2040 - 2069		2070 - 2099		Change Class	Positive Traits	Negative Traits	DistFact	BioFact	Adapt	
		Current	Modeled	GFDL		GFDL		GFDL		GFDL		GFDL		Future : Current								
		FIA IV	Modeled	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI		PCM B1	A1FI	PCM B1	GFDL A1FI				
110	Shortleaf pine	0	0	0	0	2	0	0	28	NA	NA	NA	NA	NA	New	NA	New habitat	EHS	COL INS	0	-0.97	3.6
317	Silver maple	27	37	27	77	34	261	56	386	0.73	2.08	0.92	7.05	1.51	10.43	Small increase	Large increase	DISP	SES	0.13	1.63	5.6
975	Slippery elm	9	5	7	21	9	94	18	120	1.40	4.20	1.80	18.80	3.60	24.00	No change	Large increase	COL	FTK DISE	0.03	0.68	4.8
812	Southern red oak	0	0	0	0	0	0	0	11	NA	NA	NA	NA	NA	New	NA	New habitat	TGR		1.21	0.21	5.3
315	Striped maple	155	172	137	108	114	73	102	49	0.80	0.63	0.66	0.42	0.59	0.29	Small decrease	Large decrease	COL	SES DRO	0.96	0.25	5.1
318	Sugar maple	508	604	597	740	658	758	722	763	0.99	1.23	1.09	1.26	1.20	1.26	No change	Small increase	COL	EHS	0.86	1.34	5.8
461	Sugarberry	0	4	1	2	1	6	4	21	0.25	0.50	0.25	1.50	1.00	5.25	NA	New habitat	COL	SES FTK	-0.17	0.64	4.6
804	Swamp white oak	0	0	0	0	0	8	2	21	NA	NA	NA	New	NA	New	NA	New habitat			1.04	-0.3	4.9
372	Sweet birch	6	39	55	59	71	145	85	165	1.41	1.51	1.82	3.72	2.18	4.23	Large increase	Large increase	DISP	FTK COL INS	-1.28	-0.32	3.2
611	Sweetgum	0	11	6	5	5	40	7	190	0.55	0.46	0.46	3.64	0.64	17.27	NA	New habitat	VRE	EHS DRO	-0.41	0.18	4.1
731	Sycamore**	0	3	2	3	7	29	7	58	0.67	1.00	2.33	9.67	2.33	19.33	New habitat	New habitat			1.28	-0.9	4.8
71	Tamarack (native)	149	136	117	100	90	39	77	19	0.86	0.74	0.66	0.29	0.57	0.14	Small decrease	Large decrease		FTK COL INS	-0.48	-1.24	3.1
132	Virginia pine	0	1	2	0	0	4	0	30	2.00	0.00	0.00	4.00	0.00	30.00	NA	New habitat		COL POL	0.1	-0.81	3.8
541	White ash	273	329	388	443	426	528	483	569	1.18	1.35	1.30	1.61	1.47	1.73	Small increase	Small increase		INS FTK COL	-2.01	-0.54	2.7
802	White oak	4	32	76	176	142	393	185	544	2.38	5.50	4.44	12.28	5.78	17.00	Large increase	Large increase	EHS	ESP TGR FTK	1.66	1	6.1
94	White spruce	236	238	154	104	100	41	75	22	0.65	0.44	0.42	0.17	0.32	0.09	Large decrease	Large decrease	TGR	INS	0.07	-0.62	3.9
831	Willow oak	0	2	3	1	2	2	2	7	1.50	0.50	1.00	1.00	1.00	3.50	NA	New habitat	SES	TGR COL	0.63	-0.01	4.7
971	Winged elm	0	0	0	0	0	0	0	27	NA	NA	NA	NA	NA	New	NA	New habitat		INS DISE	-0.58	-0.3	3.6
371	Yellow birch	441	462	412	357	363	179	345	136	0.89	0.77	0.79	0.39	0.75	0.29	Small decrease	Large decrease	DISP	FTK INS	-1.38	-0.03	3.4
621	Yellow-poplar	0	3	7	10	14	97	16	165	2.33	3.33	4.67	32.33	5.33	55.00	New habitat	New habitat	SES	DISP EHS	0.13	1.26	5.3

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