

		DISTRIB Results (suitable habitat)																								
		Current IV		Modeled IV						Future : Current						Change Class		Modifying Factors								
		Current		2010 - 2039		2040 - 2069		2070 - 2099		2010 - 2039		2040 - 2069		2070 - 2099				Positive Traits		Negative Traits			DistFact	BioFact	Adapt	
FIA	Common Name	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	PCM B1	GFDL A1FI	PCM B1	GFDL A1FI					
951	American basswood	255	311	254	413	287	529	301	637	0.82	1.33	0.92	1.70	0.97	2.05	No change	Large increase	COL	FTK			0.31	0.16	4.6		
531	American beech	3543	3659	3670	3333	3554	2609	3513	2086	1.00	0.91	0.97	0.71	0.96	0.57	No change	Small decrease	COL	INS FTK			-1.14	0.03	3.6		
421	American chestnut	27	9	15	12	15	8	16	7	1.67	1.33	1.67	0.89	1.78	0.78	No change	No change	COL	DISE FTK			0.13	0.3	4.5		
972	American elm	581	662	657	942	724	1344	823	1662	0.99	1.42	1.09	2.03	1.24	2.51	Small increase	Large increase	EHS	DISE INS			-0.8	0.3	4.0		
591	American holly	7	4	5	8	5	40	5	55	1.25	2.00	1.25	10.00	1.25	13.75	No change	Large increase	COL EHS	FTK			-0.1	0.47	4.5		
391	American hornbeam:muscle	188	248	250	286	273	470	291	546	1.01	1.15	1.10	1.90	1.17	2.20	No change	Large increase	COL SES	FTK DRO			0.56	0.62	5.1		
935	American mountain-ash	77	33	43	22	28	5	21	2	1.30	0.67	0.85	0.15	0.64	0.06	No change	Large decrease		FTK COL EHS			-0.23	-1.62	3.1		
43	Atlantic white-cedar	31	36	35	34	33	29	35	28	0.97	0.94	0.92	0.81	0.97	0.78	No change	No change	DISP	FTK DRO EHS			-0.61	-1.21	3.0		
221	Baldcypress	0	24	25	40	24	53	41	91	1.04	1.67	1.00	2.21	1.71	3.79	New habitat	New habitat	DISP	FTK			0.38	-1.02	3.9		
12	Balsam fir	5334	5255	4501	3445	3713	1457	3313	1175	0.86	0.66	0.71	0.28	0.63	0.22	Small decrease	Large decrease	COL	INS FTK DRO			-3	-0.35	2.7		
741	Balsam poplar	131	125	82	73	68	33	73	39	0.66	0.58	0.54	0.26	0.58	0.31	Small decrease	Large decrease	FRG VRE	COL DRO			0.13	-0.59	4.0		
816	Bear oak:scrub oak	6	14	10	14	12	17	13	16	0.71	1.00	0.86	1.21	0.93	1.14	No change	No change	FRG VRE	COL FTK			1.04	-0.81	4.6		
743	Bigtooth aspen	507	613	550	628	589	562	606	461	0.90	1.02	0.96	0.92	0.99	0.75	No change	Small decrease	FRG DISP	COL DRO FTK			1.01	0.16	5.1		
402	Bitternut hickory	46	21	36	116	36	280	54	420	1.71	5.52	1.71	13.33	2.57	20.00	No change	Large increase	DRO	COL			2.17	-0.83	5.6		
543	Black ash	313	436	298	394	290	322	296	297	0.68	0.90	0.67	0.74	0.68	0.68	Small decrease	Small decrease		INS COL DISP DRO SES FTK ESP			-1.31	-3	1.7		
762	Black cherry	1355	1561	1630	1889	1752	2160	1807	2175	1.04	1.21	1.12	1.38	1.16	1.39	No change	Small increase	DRO EHS	INS FTK COL			-1.56	-0.32	3.0		
408	Black hickory	0	0	0	6	0	188	0	588	0.00	New	0.00	New	0.00	New	NA	New habitat		EHS COL			1.04	-2.27	4.1		
901	Black locust	40	79	101	234	143	508	182	768	1.28	2.96	1.81	6.43	2.30	9.72	Large increase	Large increase		COL INS			0	-0.59	3.8		
314	Black maple	5	1	1	1	1	1	1	0	1.00	1.00	1.00	1.00	1.00	0.00	No change	Small decrease	COL EHS	FTK			0.48	0.9	5.2		
837	Black oak	473	563	654	964	803	1627	900	2059	1.16	1.71	1.43	2.89	1.60	3.66	Small increase	Large increase	DRO EHS	INS DISE			0.51	0.42	4.9		
95	Black spruce	475	537	345	294	266	30	222	5	0.64	0.55	0.50	0.06	0.41	0.01	Large decrease	Large decrease	COL EHS DISP	FTK INS DRO			-2.14	1.24	4.3		
602	Black walnut	9	31	40	204	99	587	138	801	1.29	6.58	3.19	18.94	4.45	25.84	Small increase	Large increase	SES	COL DRO			0.35	-0.83	4.0		
922	Black willow	124	136	135	243	153	448	181	623	0.99	1.79	1.13	3.29	1.33	4.58	Small increase	Large increase		COL FTK DRO			-0.31	-2.13	2.8		
693	Blackgum	37	62	107	130	139	336	165	500	1.73	2.10	2.24	5.42	2.66	8.07	No change	Large increase	COL FTK			1.46	0.83	5.9			
824	Blackjack oak**	0	2	1	7	2	122	3	413	0.50	3.50	1.00	61.00	1.50	206.50	NA	New habitat	DRO SES FRG VRE SES DISP	COL FTK			1.56	0.21	5.6		
313	Boxelder	49	99	77	235	84	350	104	543	0.78	2.37	0.85	3.54	1.05	5.49	No change	Large increase	DRO COL	FTK			2.39	2.06	7.4		
823	Bur oak	12	32	13	100	14	217	21	397	0.41	3.13	0.44	6.78	0.66	12.41	No change	Large increase	DRO FTK			2.77	-0.16	6.4			
601	Butternut	81	40	50	50	46	32	48	21	1.25	1.25	1.15	0.80	1.20	0.53	No change	Small decrease		FTK COL DRO DISE			-1.41	-1.27	2.3		
973	Cedar elm	0	1	0	0	0	0	0	49	0.00	0.00	0.00	0.00	0.00	49.00	NA	New habitat		DISE			-0.27	-1.17	3.3		
813	Cherrybark oak	0	2	7	8	6	10	7	42	3.50	4.00	3.00	5.00	3.50	21.00	New habitat	New habitat		INS FTK			-0.51	0.06	3.9		
832	Chestnut oak	91	191	240	287	323	740	351	964	1.26	1.50	1.69	3.87	1.84	5.05	Small increase	Large increase	SES VRE EHS FTK	INS DISE			1.39	1.29	6.1		
826	Chinkapin oak**	0	2	1	5	2	127	1	280	0.50	2.50	1.00	63.50	0.50	140.00	NA	New habitat	TGR			1.18	-0.66	4.8			
763	Chokecherry	214	181	174	170	167	88	180	65	0.96	0.94	0.92	0.49	0.99	0.36	No change	Large decrease		COL			0.18	-0.86	3.8		
521	Common persimmon	0	0	0	48	1	338	8	797	0.00	New	NA	New	New	New	New habitat	New habitat	COL EHS			1.18	0.95	5.8			

FIA	Common Name	DISTRIB Results (suitable habitat)														Modifying Factors						
		Current IV		Modeled IV						Future : Current						Change Class		Modifying Factors				
		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
742	Eastern cottonwood	51	78	64	259	80	682	119	1057	0.82	3.32	1.03	8.74	1.53	13.55	Small increase	Large increase	TGR	INS COL DISE FTK	0.22	-0.75	3.9
261	Eastern hemlock	2804	2810	2891	2877	2909	2503	2957	2136	1.03	1.02	1.04	0.89	1.05	0.76	No change	Small decrease	COL	INS DRO	-1.34	-0.88	2.7
701	Eastern hophornbeam	679	738	666	762	706	887	740	1053	0.90	1.03	0.96	1.20	1.00	1.43	No change	Small increase	COL EHS TGR		1.72	1.29	6.4
68	Eastern red cedar	93	150	227	562	317	1593	399	2371	1.51	3.75	2.11	10.62	2.66	15.81	Large increase	Large increase	DRO	FTK COL INS	0.56	-1.48	3.9
471	Eastern redbud	1	1	1	31	14	302	24	615	1.00	31.00	14.00	302.00	24.00	615.00	Small increase	Small increase			0.9	-0.03	4.9
129	Eastern white pine	3608	3525	3303	3092	3273	2613	3254	2448	0.94	0.88	0.93	0.74	0.92	0.69	No change	Small decrease	DISP	DRO FTK INS	-1.97	0.13	3.3
491	Flowering dogwood	49	71	133	307	219	941	275	1372	1.87	4.32	3.09	13.25	3.87	19.32	Large increase	Large increase	COL		0.07	0.95	5.0
379	Gray birch	649	603	584	566	555	483	555	475	0.97	0.94	0.92	0.80	0.92	0.79	No change	Small decrease	DISP EHS	FTK COL INS DISE	-1.14	0.03	3.6
544	Green ash	70	108	75	101	79	142	96	300	0.69	0.94	0.73	1.32	0.89	2.78	No change	Large increase		INS FTK COL	-0.13	-0.25	4.0
462	Hackberry	4	16	9	166	19	614	43	952	0.56	10.38	1.19	38.38	2.69	59.50	No change	Large increase	DRO	FTK	1.66	0.3	5.7
552	Honeylocust	5	9	9	107	12	449	20	742	1.00	11.89	1.33	49.89	2.22	82.44	No change	Large increase		COL	1.91	-0.54	5.5
105	Jack pine	14	111	37	136	41	142	50	163	0.33	1.23	0.37	1.28	0.45	1.47	Small decrease	Small increase	DRO	COL INS	1.87	-1.24	5.2
131	Loblolly pine	0	37	50	90	55	141	104	499	1.35	2.43	1.49	3.81	2.81	13.49	New habitat	New habitat	EHS	INS INP DRO COL	-0.51	-0.66	3.4
121	Longleaf pine	0	12	9	7	19	8	24	10	0.75	0.58	1.58	0.67	2.00	0.83	New habitat	NA	FTK	COL	0.96	-1.74	4.2
409	Mockernut hickory	41	74	68	107	105	340	116	520	0.92	1.45	1.42	4.60	1.57	7.03	Small increase	Large increase		FTK	1.69	-0.28	5.4
319	Mountain maple	294	281	223	188	176	38	153	18	0.79	0.67	0.63	0.14	0.54	0.06	Small decrease	Large decrease	COL VRE EHS	DRO FTK	0.8	1.48	5.9
809	Northern pin oak	3	13	2	58	5	45	6	60	0.15	4.46	0.39	3.46	0.46	4.62	No change	Small increase	DRO FTK	COL	2.52	-0.56	6.0
833	Northern red oak	1618	1715	1961	2255	2127	2671	2267	2656	1.14	1.32	1.24	1.56	1.32	1.55	Small increase	Small increase		INS	1.39	0.13	5.4
241	Northern white-cedar	1641	1726	1222	1193	1031	651	948	574	0.71	0.69	0.60	0.38	0.55	0.33	Small decrease	Large decrease	COL	FTK	-0.7	0.49	4.2
331	Ohio buckeye	1	0	0	6	0	14	4	17	0.00	6.00	0.00	14.00	4.00	17.00	Small increase	Small increase	COL	SES FTK	0.38	-1.92	3.5
641	Osage-orange	0	8	8	15	7	59	9	94	1.00	1.88	0.88	7.38	1.13	11.75	NA	New habitat	EHS ESP		2.32	0.33	6.3
375	Paper birch	1902	1933	1653	1601	1469	773	1402	435	0.86	0.83	0.76	0.40	0.73	0.23	Small decrease	Large decrease	FRG DISP	FTK COL INS EHS DRO	-1.72	0.18	3.4
367	Pawpaw**	0	1	2	20	15	72	14	169	2.00	20.00	15.00	72.00	14.00	169.00	New habitat	New habitat	COL	DRO	-0.48	-0.32	3.7
403	Pignut hickory	170	217	251	351	308	731	349	981	1.16	1.62	1.42	3.37	1.61	4.52	Small increase	Large increase	EHS	INS DRO	0.22	0.4	4.7
761	Pin cherry	383	397	343	349	327	286	335	235	0.86	0.88	0.82	0.72	0.84	0.59	No change	Small decrease	SES FRG FTK	COL	0.45	-0.68	4.2
830	Pin oak	3	12	16	80	31	241	55	346	1.33	6.67	2.58	20.08	4.58	28.83	Small increase	Large increase		FTK COL INS DISE	-0.65	-1.39	2.8
126	Pitch pine	168	144	157	166	162	163	168	191	1.09	1.15	1.13	1.13	1.17	1.33	No change	Small increase		COL INS	0.56	-1.79	3.8
128	Pond pine	0	3	5	7	4	4	6	14	1.67	2.33	1.33	1.33	2.00	4.67	New habitat	New habitat		DRO COL INS DISP	-1.06	-1.51	2.4
835	Post oak	1	2	1	45	10	624	15	1787	0.50	22.50	5.00	312.00	7.50	893.50	Small increase	Small increase	DRO TGR FTK	COL INS DISE	2.17	-0.59	5.7
746	Quaking aspen	1278	1488	1249	1419	1249	967	1267	699	0.84	0.95	0.84	0.65	0.85	0.47	No change	Large decrease	TGR FRG EHS	COL DRO FTK	0.56	0.01	4.7
316	Red maple	7631	7772	8003	7573	8121	6921	8126	5899	1.03	0.97	1.05	0.89	1.05	0.76	No change	Small decrease	SES EHS ESP COL DISP		3	3	8.5
682	Red mulberry	7	6	8	217	23	781	49	1163	1.33	36.17	3.83	130.17	8.17	193.83	Large increase	Large increase	COL DISP	FTK	0.07	0.59	4.7

FIA	Common Name	DISTRIB Results (suitable habitat)																		Modifying Factors				
		Current IV		Modeled IV						Future : Current						Change Class								
		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		
125	Red pine	221	315	262	381	286	558	325	656	0.83	1.21	0.91	1.77	1.03	2.08	No change	Large increase	INS COL DISP		0.86	-2.42	3.9		
97	Red spruce	2750	2651	2327	1606	1809	945	1692	915	0.88	0.61	0.68	0.36	0.64	0.35	Small decrease	Large decrease	EHS COL FTK SES		-1.28	-0.62	2.9		
373	River birch	1	7	3	16	2	5	3	16	0.43	2.29	0.29	0.71	0.43	2.29	NA	No change	DISP FTK COL DRO		-0.45	-0.32	3.7		
977	Rock elm	0	0	0	1	0	4	1	22	0.00	NA	0.00	New	NA	New	NA	New habitat	EHS ESP SES		-0.2	-2.61	2.8		
107	Sand pine	0	11	27	24	21	27	23	32	2.46	2.18	1.91	2.46	2.09	2.91	New habitat	New habitat	DRO INS FTK		-1.09	-1.14	2.7		
931	Sassafras	56	103	143	208	208	569	236	880	1.39	2.02	2.02	5.52	2.29	8.54	Large increase	Large increase	COL FTK		0.48	-0.64	4.2		
806	Scarlet oak	217	208	300	345	351	634	377	846	1.44	1.66	1.69	3.05	1.81	4.07	Small increase	Large increase	VRE EHS ESP INS DISE FTK		-0.35	0.71	4.6		
356	Serviceberry	320	302	303	361	347	387	352	370	1.00	1.20	1.15	1.28	1.17	1.23	No change	Small increase	COL SES DRO		-0.38	0.98	4.8		
407	Shagbark hickory	110	128	158	274	195	511	225	651	1.23	2.14	1.52	3.99	1.76	5.09	Small increase	Large increase	INS FTK		-0.2	0.37	4.4		
405	Shellbark hickory	8	1	2	9	2	87	3	161	2.00	9.00	2.00	87.00	3.00	161.00	No change	Small increase	COL FTK EHS		-0.48	-0.3	3.7		
817	Shingle oak	0	1	0	25	1	167	2	289	0.00	25.00	1.00	167.00	2.00	289.00	NA	New habitat	EHS COL		1.31	-0.74	4.9		
110	Shortleaf pine**	0	5	4	8	16	107	14	384	0.80	1.60	3.20	21.40	2.80	76.80	New habitat	New habitat	EHS COL INS DRO		0	-0.97	3.6		
834	Shumard oak	0	0	0	0	0	0	0	23	0.00	0.00	0.00	0.00	0.00	New	NA	New habitat	DRO TGR COL		2.45	-1.02	5.8		
317	Silver maple	135	184	152	493	208	986	280	1372	0.83	2.68	1.13	5.36	1.52	7.46	Small increase	Large increase	DISP SES COL DRO FTK		0.13	1.63	5.6		
975	Slippery elm	52	70	71	213	100	472	132	649	1.01	3.04	1.43	6.74	1.89	9.27	Small increase	Large increase	COL FTK DISE		0.03	0.68	4.8		
711	Sourwood	1	1	8	4	10	5	24	29	8.00	4.00	10.00	5.00	24.00	29.00	Small increase	Small increase	COL EHS		2.59	0.98	6.9		
812	Southern red oak	0	0	3	3	11	82	11	261	New	New	New	New	New	New	New habitat	New habitat	TGR		1.21	0.21	5.3		
315	Striped maple	1084	1056	1017	860	929	589	892	475	0.96	0.81	0.88	0.56	0.85	0.45	No change	Large decrease	COL SES DRO		0.96	0.25	5.1		
318	Sugar maple	4620	4825	4768	4563	4624	3958	4628	3628	0.99	0.95	0.96	0.82	0.96	0.75	No change	Small decrease	COL EHS		0.86	1.34	5.8		
461	Sugarberry	0	13	5	11	6	63	10	255	0.39	0.85	0.46	4.85	0.77	19.62	NA	New habitat	COL SES FTK		-0.17	0.64	4.6		
825	Swamp chestnut oak	1	0	1	0	0	0	2	18	1.00	0.00	0.00	0.00	2.00	18.00	No change	Small increase	TGR COL INS		1.08	-0.81	4.6		
804	Swamp white oak	25	18	21	39	24	74	29	115	1.17	2.17	1.33	4.11	1.61	6.39	No change	Small increase			1.04	-0.3	4.9		
372	Sweet birch	611	662	819	785	933	1073	957	1052	1.24	1.19	1.41	1.62	1.45	1.59	Small increase	Small increase	DISP FTK COL INS DISE		-1.28	-0.32	3.2		
653	Sweetbay**	0	7	1	2	4	1	11	1	0.14	0.29	0.57	0.14	1.57	0.14	New habitat	NA	FTK INS		1.39	-0.47	5.1		
611	Sweetgum**	0	32	91	182	115	422	198	938	2.84	5.69	3.59	13.19	6.19	29.31	New habitat	New habitat	VRE EHS FTK COL DRO		-0.41	0.18	4.1		
731	Sycamore	9	13	16	41	24	210	37	360	1.23	3.15	1.85	16.15	2.85	27.69	No change	Large increase			1.28	-0.9	4.8		
71	Tamarack (native)	256	259	214	210	183	178	160	161	0.83	0.81	0.71	0.69	0.62	0.62	Small decrease	Small decrease	FTK COL INS		-0.48	-1.24	3.1		
132	Virginia pine	0	13	27	17	41	109	44	246	2.08	1.31	3.15	8.39	3.39	18.92	New habitat	New habitat	COL POL		0.1	-0.81	3.8		
827	Water oak	0	0	0	0	0	2	0	31	0.00	0.00	0.00	NA	0.00	New	NA	New habitat	TGR FTK COL		-0.17	-0.59	3.7		
541	White ash	2077	2135	2358	2403	2466	2515	2590	2538	1.10	1.13	1.16	1.18	1.21	1.19	Small increase	No change	INS FTK COL		-2.01	-0.54	2.7		
802	White oak	404	564	666	1073	847	2112	961	2716	1.18	1.90	1.50	3.75	1.70	4.82	Small increase	Large increase	EHS ESP TGR FTK INS DISE		1.66	1	6.1		
94	White spruce	491	524	379	384	300	229	286	185	0.72	0.73	0.57	0.44	0.55	0.35	Small decrease	Large decrease	INS		0.07	-0.62	3.9		
831	Willow oak	0	7	5	3	5	24	5	77	0.71	0.43	0.71	3.43	0.71	11.00	NA	New habitat	SES TGR COL		0.63	-0.01	4.7		
971	Winged elm	1	0	0	8	0	122	3	471	0.00	8.00	0.00	122.00	3.00	471.00	No change	Small increase	INS DISE		-0.58	-0.3	3.6		
371	Yellow birch	2344	2314	2252	1919	2037	1101	1941	844	0.97	0.83	0.88	0.48	0.84	0.37	No change	Large decrease	DISP FTK INS DISE		-1.38	-0.03	3.4		
621	Yellow-poplar	25	69	129	189	183	543	206	805	1.87	2.74	2.65	7.87	2.99	11.67	Large increase	Large increase	SES DISP FTK INP		0.13	1.26	5.3		

