

Northern Wisconsin and Western UP Michigan
(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	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	885	880	875	1189	950	1246	931	1219	0.99	1.35	1.08	1.42	1.06	1.39	No Change	Sm. Inc.	COL	FTK	0.31	0.16	4.6
531	American beech	108	167	190	328	358	362	358	321	1.14	1.96	2.14	2.17	2.14	1.92	Lg. Inc.	Sm. Inc.	COL	INS FTK	-1.14	0.03	3.6
972	American elm	922	950	1021	1522	1348	2179	1349	2313	1.08	1.60	1.42	2.29	1.42	2.44	Sm. Inc.	Lg. Inc.	EHS	DISE INS	-0.8	0.3	4.0
391	American hornbeam	153	138	150	224	193	294	191	288	1.09	1.62	1.40	2.13	1.38	2.09	Sm. Inc.	Lg. Inc.	COL SES	FTK DRO	0.56	0.62	5.1
12	Balsam fir	1649	1682	1265	434	990	200	837	186	0.75	0.26	0.59	0.12	0.50	0.11	Lg. Dec.	Lg. Dec.	COL	INS FTK DRO	-3	-0.35	2.7
741	Balsam poplar	155	191	144	84	87	195	89	156	0.75	0.44	0.46	1.02	0.47	0.82	Lg. Dec.	No Change	FRG VRE	COL DRO	0.13	-0.59	4.0
743	Bigtooth aspen	666	670	677	614	661	354	650	244	1.01	0.92	0.99	0.53	0.97	0.36	No Change	Lg. Dec.	FRG DISP	COL DRO FTK	1.01	0.16	5.1
402	Bitternut hickory	103	115	136	285	261	277	259	363	1.18	2.48	2.27	2.41	2.25	3.16	Lg. Inc.	Lg. Inc.	DRO	COL	2.17	-0.83	5.6
543	Black ash	1207	1163	1019	892	914	786	868	695	0.88	0.77	0.79	0.68	0.75	0.60	Sm. Dec.	Sm. Dec.		INS COL DISP DRO SES FTK ESP	-1.31	-3	1.7
762	Black cherry	407	561	748	1246	1317	950	1354	807	1.33	2.22	2.35	1.69	2.41	1.44	Lg. Inc.	Sm. Inc.	DRO EHS	INS FTK COL	-1.56	-0.32	3.0
408	Black hickory	0	0	0	0	0	90	0	213	NA	NA	NA	New	NA	New	NA	New Habitat		EHS COL	1.04	-2.27	4.1
901	Black locust	2	6	11	114	69	447	80	625	1.83	19.00	11.50	74.50	13.33	104.17	Lg. Inc.	Lg. Inc.		COL INS	0	-0.59	3.8
837	Black oak	67	270	340	925	520	928	608	1365	1.26	3.43	1.93	3.44	2.25	5.06	Lg. Inc.	Lg. Inc.	DRO EHS	INS DISE	0.51	0.42	4.9
95	Black spruce	670	706	498	143	358	63	288	63	0.71	0.20	0.51	0.09	0.41	0.09	Lg. Dec.	Lg. Dec.	COL EHS DISP	FTK INS DRO	-2.14	1.24	4.3
602	Black walnut	2	11	46	282	138	656	178	757	4.18	25.64	12.55	59.64	16.18	68.82	Lg. Inc.	Lg. Inc.	SES	COL DRO	0.35	-0.83	4.0
922	Black willow	57	82	93	309	206	527	219	580	1.13	3.77	2.51	6.43	2.67	7.07	Lg. Inc.	Lg. Inc.		COL FTK DRO	-0.31	-2.13	2.8
693	Blackgum	0	2	0	0	1	62	1	90	0.00	0.00	0.50	31.00	0.50	45.00	Sm. Dec.	Lg. Inc.	COL FTK		1.46	0.83	5.9
824	Blackjack oak	0	0	0	5	7	126	4	267	NA	New	New	New	New	New	New Habitat	New Habitat	DRO SES FRG VRE	COL FTK	1.56	0.21	5.6
313	Boxelder	61	205	194	513	316	766	320	1028	0.95	2.50	1.54	3.74	1.56	5.02	Sm. Inc.	Lg. Inc.	SES DISP DRO COL TGR	FTK	2.39	2.06	7.4
823	Bur oak	261	457	398	824	684	875	651	1056	0.87	1.80	1.50	1.92	1.43	2.31	Sm. Inc.	Lg. Inc.	DRO FTK		2.77	-0.16	6.4
601	Butternut	54	27	31	65	42	2	46	0	1.15	2.41	1.56	0.07	1.70	0	No Change	Lg. Dec.		FTK COL DRO DISE	-1.41	-1.27	2.3
832	Chestnut oak	0	2	0	0	1	72	0	71	0.00	0.00	0.50	36.00	0	35.50	Lg. Dec.	Lg. Inc.	SES VRE EHS FTK	INS DISE	1.39	1.29	6.1
826	Chinkapin oak	0	0	0	7	1	143	1	285	NA	New	New	New	New	New	New Habitat	New Habitat	TGR		1.18	-0.66	4.8
763	Chokecherry	134	139	126	176	172	141	163	42	0.91	1.27	1.24	1.01	1.17	0.30	No Change	Lg. Dec.		COL	0.18	-0.86	3.8
521	Common persimmon	0	0	0	0	0	0	0	10	NA	NA	NA	NA	NA	New	NA	New Habitat	COL EHS		1.18	0.95	5.8
742	Eastern cottonwood	20	57	62	221	120	1027	126	955	1.09	3.88	2.11	18.02	2.21	16.75	Lg. Inc.	Lg. Inc.	TGR	INS COL DISE FTK	0.22	-0.75	3.9
261	Eastern hemlock	467	409	460	372	530	195	495	154	1.13	0.91	1.30	0.48	1.21	0.38	Sm. Inc.	Lg. Dec.	COL	INS DRO	-1.34	-0.88	2.7
701	Eastern hophornbeam	397	443	420	576	538	677	524	681	0.95	1.30	1.21	1.53	1.18	1.54	No Change	Sm. Inc.	COL EHS TGR		1.72	1.29	6.4
68	Eastern red cedar	28	29	43	573	111	1902	147	2067	1.48	19.76	3.83	65.59	5.07	71.28	Lg. Inc.	Lg. Inc.	DRO	FTK COL INS	0.56	-1.48	3.9
471	Eastern redbud	0	0	1	5	3	160	3	331	New	New	New	New	New	New	New Habitat	New Habitat			0.9	-0.03	4.9
129	Eastern white pine	628	636	690	682	742	548	720	319	1.09	1.07	1.17	0.86	1.13	0.50	No Change	Sm. Dec.	DISP	DRO FTK INS	-1.97	0.13	3.3
491	Flowering dogwood	0	0	3	18	27	216	26	298	New	New	New	New	New	New	New Habitat	New Habitat	COL		0.07	0.95	5.0
379	Gray birch	0	5	4	16	7	19	11	20	0.80	3.20	1.40	3.80	2.20	4.00	No Change	Sm. Inc.	DISP EHS	FTK COL INS DISE	-1.14	0.03	3.6
544	Green ash	638	593	509	523	452	1117	449	890	0.86	0.88	0.76	1.88	0.76	1.50	Sm. Dec.	Sm. Inc.		INS FTK COL	-0.13	-0.25	4.0
462	Hackberry	2	12	24	358	164	770	178	935	2.00	29.83	13.67	64.17	14.83	77.92	Lg. Inc.	Lg. Inc.	DRO	FTK	1.66	0.3	5.7
552	Honeylocust	0	2	3	127	43	422	41	559	1.50	63.50	21.50	211.00	20.50	279.50	Lg. Inc.	Lg. Inc.		COL	1.91	-0.54	5.5
105	Jack pine	695	812	693	749	672	501	654	492	0.85	0.92	0.83	0.62	0.81	0.61	No Change	Sm. Dec.	DRO	COL INS	1.87	-1.24	5.2
121	Longleaf pine	0	0	0	7	11	0	8	0	NA	New	New	NA	New	NA	New Habitat	NA	FTK	COL	0.96	-1.74	4.2
409	Mockernut hickory	0	1	1	11	17	126	18	189	1.00	11.00	17.00	126.00	18.00	189.00	Lg. Inc.	Lg. Inc.		FTK	1.69	-0.28	5.4
319	Mountain maple	59	53	27	2	17	0	13	0	0.51	0.04	0.32	0.00	0.25	0.00	Lg. Dec.	Lg. Dec.	COL VRE EHS	DRO FTK	0.8	1.48	5.9
452	Northern catalpa	0	2	0	0	0	2	0	3	0.00	0.00	0.00	1.00	0.00	1.50	Lg. Dec.	No Change		COL EHS	0.93	-1.58	4.2
809	Northern pin oak	329	319	292	483	361	343	341	341	0.92	1.51	1.13	1.08	1.07	1.07	No Change	No Change	DRO FTK	COL	2.52	-0.56	6.0

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		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	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					
833	Northern red oak	940	1078	1292	1829	1435	1491	1441	1216	1.20	1.70	1.33	1.38	1.34	1.13	Sm. Inc.	No Change	INS		1.39	0.13	5.4		
241	Northern white-cedar	1010	1003	869	460	744	439	704	361	0.87	0.46	0.74	0.44	0.70	0.36	Sm. Dec.	Lg. Dec.	COL	FTK	-0.7	0.49	4.2		
331	Ohio buckeye	0	0	1	11	2	109	2	136	New	New	New	New	New	New	New Habitat	New Habitat	COL	SES FTK	0.38	-1.92	3.5		
641	Osage-orange	0	8	9	50	55	144	57	231	1.13	6.25	6.88	18.00	7.13	28.88	Sm. Inc.	Lg. Inc.	EHS ESP		2.32	0.33	6.3		
375	Paper birch	1699	1628	1339	1118	1173	329	1068	258	0.82	0.69	0.72	0.20	0.66	0.16	Sm. Dec.	Lg. Dec.	FRG DISP EHS	FTK COL INS DRO	-1.72	0.18	3.4		
921	Peachleaf willow	6	0	0	0	0	3	0	47	NA	NA	NA	New	NA	New	NA	New Habitat		COL		0.13	-1.65	3.4	
404	Pecan	0	66	0	0	0	25	0	52	0.00	0.00	0.00	0.38	0.00	0.79	Lg. Dec.	Sm. Dec.		FTK INS COL	-1.24	-1.7	2.2		
403	Pignut hickory	0	1	2	43	49	175	64	211	2.00	43.00	49.00	175.00	64.00	211.00	Lg. Inc.	Lg. Inc.	EHS	INS DRO	0.22	0.4	4.7		
761	Pin cherry	56	48	49	62	56	36	55	10	1.02	1.29	1.17	0.75	1.15	0.21	No Change	Lg. Dec.	SES FRG FTK	COL	0.45	-0.68	4.2		
830	Pin oak	0	7	5	40	34	206	32	294	0.71	5.71	4.86	29.43	4.57	42.00	Sm. Inc.	Lg. Inc.		FTK COL INS DISE	-0.65	-1.39	2.8		
126	Pitch pine	0	1	0	0	0	4	0	4	0.00	0.00	0.00	4.00	0.00	4.00	Lg. Dec.	Sm. Inc.		COL INS	0.56	-1.79	3.8		
835	Post oak	0	0	0	7	8	515	6	957	NA	New	New	New	New	New	New Habitat	New Habitat	DRO TGR FTK	COL INS DISE	2.17	-0.59	5.7		
746	Quaking aspen	3888	3921	3138	2278	2405	1076	2230	866	0.80	0.58	0.61	0.27	0.57	0.22	Sm. Dec.	Lg. Dec.	TGR FRG EHS	COL DRO FTK	0.56	0.01	4.7		
316	Red maple	3149	2910	3032	2603	3104	2054	3034	1803	1.04	0.90	1.07	0.71	1.04	0.62	No Change	Sm. Dec.	SES EHS ESP	COL DISP	3	3	8.5		
682	Red mulberry	1	0	2	188	35	566	45	714	New	New	New	New	New	New	New Habitat	New Habitat	COL DISP	FTK	0.07	0.59	4.7		
125	Red pine	571	685	659	695	617	700	626	575	0.96	1.02	0.90	1.02	0.91	0.84	No Change	No Change		INS COL DISP	0.86	-2.42	3.9		
97	Red spruce	0	41	21	46	58	31	54	32	0.51	1.12	1.42	0.76	1.32	0.78	Sm. Inc.	Sm. Dec.	EHS COL	FTK SES	-1.28	-0.62	2.9		
373	River birch	4	1	1	112	23	11	16	20	1.00	112.00	23.00	11.00	16.00	20.00	Lg. Inc.	Lg. Inc.	DISP	FTK COL DRO	-0.45	-0.32	3.7		
977	Rock elm	73	52	43	45	42	61	39	62	0.83	0.87	0.81	1.17	0.75	1.19	Sm. Dec.	No Change		EHS ESP SES	-0.2	-2.61	2.8		
931	Sassafras	0	3	4	19	39	211	35	247	1.33	6.33	13.00	70.33	11.67	82.33	Lg. Inc.	Lg. Inc.		COL FTK	0.48	-0.64	4.2		
806	Scarlet oak	0	0	0	0	7	56	9	122	NA	NA	New	New	New	New	New Habitat	New Habitat	VRE EHS ESP	INS DISE FTK	-0.35	0.71	4.6		
356	Serviceberry	0	7	3	12	3	7	3	7	0.43	1.71	0.43	1.00	0.43	1.00	Sm. Dec.	No Change	COL SES	DRO	-0.38	0.98	4.8		
407	Shagbark hickory	86	117	203	608	429	525	455	621	1.74	5.20	3.67	4.49	3.89	5.31	Lg. Inc.	Lg. Inc.		INS FTK	-0.2	0.37	4.4		
405	Shellbark hickory	0	0	0	1	0	24	0	26	NA	New	NA	New	NA	New	NA	New Habitat		COL	FTK EHS	-0.48	-0.3	3.7	
817	Shingle oak	0	1	0	15	10	138	11	172	0.00	15.00	10.00	138.00	11.00	172.00	Lg. Inc.	Lg. Inc.	EHS	COL	1.31	-0.74	4.9		
317	Silver maple	72	127	166	617	416	908	401	996	1.31	4.86	3.28	7.15	3.16	7.84	Lg. Inc.	Lg. Inc.	DISP SES COL	DRO FTK	0.13	1.63	5.6		
111	Slash pine	0	0	0	0	0	7	1	8	NA	NA	NA	New	New	New	New Habitat	New Habitat	DISP FTK	COL INS	1.14	-1.67	4.3		
975	Slippery elm	75	81	143	414	249	697	290	769	1.77	5.11	3.07	8.61	3.58	9.49	Lg. Inc.	Lg. Inc.	COL	FTK DISE	0.03	0.68	4.8		
711	Sourwood	0	1	0	0	0	1	0	1	0.00	0.00	0.00	1.00	0.00	1.00	Lg. Dec.	No Change	COL EHS		2.59	0.98	6.9		
315	Striped maple	14	24	15	27	27	25	24	18	0.63	1.13	1.13	1.04	1.00	0.75	No Change	No Change	COL SES	DRO	0.96	0.25	5.1		
318	Sugar maple	3574	3375	3210	2012	3095	1462	2851	1172	0.95	0.60	0.92	0.43	0.85	0.35	No Change	Lg. Dec.	COL EHS		0.86	1.34	5.8		
461	Sugarberry	0	0	0	0	0	13	0	52	NA	NA	NA	New	NA	New	NA	New Habitat		COL SES	FTK	-0.17	0.64	4.6	
804	Swamp white oak	32	25	29	45	33	154	32	147	1.16	1.80	1.32	6.16	1.28	5.88	No Change	Sm. Inc.			1.04	-0.3	4.9		
372	Sweet birch	0	2	2	4	3	53	4	41	1.00	2.00	1.50	26.50	2.00	20.50	No Change	Lg. Inc.	DISP	FTK COL INS DISE	-1.28	-0.32	3.2		
611	Sweetgum	0	0	0	0	0	10	0	22	NA	NA	NA	New	NA	New	NA	New Habitat	VRE EHS	FTK COL DRO	-0.41	0.18	4.1		
731	Sycamore	0	0	0	3	14	31	10	83	NA	New	New	New	New	New	New Habitat	New Habitat			1.28	-0.9	4.8		
71	Tamarack (native)	508	566	475	510	514	381	500	367	0.84	0.90	0.91	0.67	0.88	0.65	No Change	Sm. Dec.		FTK COL INS	-0.48	-1.24	3.1		
541	White ash	382	427	521	580	667	830	677	791	1.22	1.36	1.56	1.94	1.59	1.85	Sm. Inc.	Sm. Inc.		INS FTK COL	-2.01	-0.54	2.7		
802	White oak	349	459	621	1260	796	1314	912	1410	1.35	2.75	1.73	2.86	1.99	3.07	Sm. Inc.	Lg. Inc.	EHS ESP TGR FTK	INS DISE	1.66	1	6.1		
94	White spruce	363	369	259	178	224	158	209	154	0.70	0.48	0.61	0.43	0.57	0.42	Sm. Dec.	Lg. Dec.		INS	0.07	-0.62	3.9		
766	Wild plum	2	6	2	12	2	160	2	269	0.33	2.00	0.33	26.67	0.33	44.83	Sm. Dec.	Lg. Inc.		COL	0.48	-1.34	3.9		
371	Yellow birch	628	589	508	300	546	136	470	125	0.86	0.51	0.93	0.23	0.80	0.21	Sm. Dec.	Lg. Dec.	DISP	FTK INS DISE	-1.38	-0.03	3.4		
621	Yellow-poplar	0	1	0	3	19	33	15	75	0.00	3.00	19.00	33.00	15.00	75.00	Lg. Inc.	Lg. Inc.	SES DISP EHS	INP	0.13	1.26	5.3		