

MidAtlantic Ridge and Valley (#4)
(summary of TreeAtlas results 2015-see companion file for keys to interpret)
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FIA	Common Name	Current IV		DISTRIB Results (suitable habitat)									Change Class 2070-2099		Modifying Factors							
		Current IV		Modeled IV			Future : Current						Change Class 2070-2099		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
		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	98	115	89	112	90	84	91	68	0.77	0.97	0.78	0.73	0.79	0.59	Small decrease	Small decrease	COL	FTK	0.31	0.16	4.6
531	American beech	308	356	295	264	275	239	296	169	0.83	0.74	0.77	0.67	0.83	0.48	No Change	Large decrease	COL	INS FTK	-1.14	0.03	3.6
421	American chestnut	55	26	45	36	42	28	44	27	1.73	1.39	1.62	1.08	1.69	1.04	Small increase	No Change	COL	DISE FTK	0.13	0.3	4.5
972	American elm	90	158	107	331	115	430	130	415	0.68	2.10	0.73	2.72	0.82	2.63	No Change	Large increase	EHS	DISE INS	-0.8	0.3	4.0
391	American hornbeam:muscle	56	104	60	88	61	127	69	135	0.58	0.85	0.59	1.22	0.66	1.30	Small decrease	Small increase	COL SES	FTK DRO	0.56	0.62	5.1
816	Bear oak:scrub oak	111	63	77	100	76	95	89	92	1.22	1.59	1.21	1.51	1.41	1.46	Small increase	Small increase	FRG VRE	COL FTK	1.04	-0.81	4.6
743	Bigtooth aspen	125	162	126	72	103	11	96	2	0.78	0.44	0.64	0.07	0.59	0.01	Small decrease	Large decrease	FRG DISP	COL DRO FTK	1.01	0.16	5.1
402	Bitternut hickory	30	14	17	67	18	134	25	142	1.21	4.79	1.29	9.57	1.79	10.14	Small increase	Large increase	DRO	COL	2.17	-0.83	5.6
762	Black cherry	1183	1120	1099	816	981	357	957	329	0.98	0.73	0.88	0.32	0.85	0.29	No Change	Large decrease	DRO EHS	INS FTK COL	-1.56	-0.32	3.0
408	Black hickory	0	1	1	64	5	366	5	511	1.00	64.00	5.00	366.00	5.00	511.00	Small increase	Large increase		EHS COL	1.04	-2.27	4.1
901	Black locust	229	255	266	245	258	249	238	244	1.04	0.96	1.01	0.98	0.93	0.96	No Change	No Change		COL INS	0	-0.59	3.8
837	Black oak	372	392	409	562	432	891	441	993	1.04	1.43	1.10	2.27	1.13	2.53	No Change	Large increase	DRO EHS	INS DISE	0.51	0.42	4.9
95	Black spruce	4	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	Large decrease	Large decrease	COL EHS DISP	FTK INS DRO	-2.14	1.24	4.3
602	Black walnut	94	122	109	168	124	177	152	165	0.89	1.38	1.02	1.45	1.25	1.35	Small increase	Small increase	SES	COL DRO	0.35	-0.83	4.0
922	Black willow	4	21	6	54	7	88	8	112	0.29	2.57	0.33	4.19	0.38	5.33	Large decrease	Large increase		COL FTK DRO	-0.31	-2.13	2.8
693	Blackgum	366	356	394	423	428	414	450	441	1.11	1.19	1.20	1.16	1.26	1.24	Small increase	Small increase	COL FTK		1.46	0.83	5.9
824	Blackjack oak	0	0	1	47	5	317	6	502	NA	New	New	New	New	New	New habitat	New habitat	DRO SES FRG VRE	COL FTK	1.56	0.21	5.6
313	Boxelder	79	51	56	62	55	62	60	81	1.10	1.22	1.08	1.22	1.18	1.59	No Change	Small increase	SES DISP DRO COL	FTK	2.39	2.06	7.4
823	Bur oak	2	0	0	0	0	15	0	39	0.00	0.00	0.00	7.50	0.00	19.50	NA	Large increase	DRO FTK		2.77	-0.16	6.4
601	Butternut	16	9	8	2	4	0	3	0	0.89	0.22	0.44	0.00	0.33	0.00	Small decrease	Large decrease		FTK COL DRO DISE	-1.41	-1.27	2.3
973	Cedar elm	0	0	0	0	0	16	0	101	NA	NA	NA	New	NA	New	NA	New habitat		DISE	-0.27	-1.17	3.3
813	Cherrybark oak	0	0	0	2	0	3	2	9	NA	NA	NA	NA	NA	New	NA	New habitat		INS FTK	-0.51	0.06	3.9
832	Chestnut oak	1232	1047	1152	1061	1142	757	1118	620	1.10	1.01	1.09	0.72	1.07	0.59	No Change	Small decrease	SES VRE EHS FTK	INS DISE	1.39	1.29	6.1
826	Chinkapin oak	2	10	6	44	8	130	15	138	0.60	4.40	0.80	13.00	1.50	13.80	No Change	Large increase	TGR		1.18	-0.66	4.8
763	Chokecherry	57	39	31	13	28	1	20	0	0.80	0.33	0.72	0.03	0.51	0.00	Small decrease	Large decrease		COL	0.18	-0.86	3.8
521	Common persimmon	2	6	7	103	15	371	24	502	1.17	17.17	2.50	61.83	4.00	83.67	Small increase	Large increase	COL EHS		1.18	0.95	5.8
651	Cucumbertree	42	31	33	26	33	22	32	19	1.07	0.84	1.07	0.71	1.03	0.61	No Change	Small decrease		FTK	0.03	-1.05	3.6
742	Eastern cottonwood	13	15	4	33	6	131	6	227	0.27	2.20	0.40	8.73	0.40	15.13	Large decrease	Large increase	TGR	INS COL DISE FTK	0.22	-0.75	3.9
261	Eastern hemlock	367	357	312	259	274	154	269	132	0.87	0.73	0.77	0.43	0.75	0.37	Small decrease	Large decrease	COL	INS DRO	-1.34	-0.88	2.7
701	Eastern hophornbeam	137	159	135	160	134	190	148	254	0.85	1.01	0.84	1.20	0.93	1.60	No Change	Small increase	COL EHS TGR		1.72	1.29	6.4
68	Eastern red cedar	63	96	95	322	117	566	155	660	0.99	3.35	1.22	5.90	1.62	6.88	Small increase	Large increase	DRO	FTK COL INS	0.56	-1.48	3.9
471	Eastern redbud	27	32	36	107	58	165	70	168	1.13	3.34	1.81	5.16	2.19	5.25	Large increase	Large increase			0.9	-0.03	4.9
129	Eastern white pine	283	302	288	283	268	174	256	117	0.95	0.94	0.89	0.58	0.85	0.39	No Change	Large decrease	DISP	DRO FTK INS	-1.97	0.13	3.3
491	Flowering dogwood	215	319	315	446	387	537	412	471	0.99	1.40	1.21	1.68	1.29	1.48	Small increase	Small increase	COL		0.07	0.95	5.0

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FIA	Common Name	Current IV		Modeled IV						DISTRIB Results (suitable habitat)						Change Class 2070-2099		Modifying Factors				
		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							
379	Gray birch	60	26	28	22	21	19	20	20	1.08	0.85	0.81	0.73	0.77	0.77	Small decrease	Small decrease	DISP EHS	FTK COL INS DISE	-1.14	0.03	3.6
544	Green ash	51	55	43	66	45	96	48	144	0.78	1.20	0.82	1.75	0.87	2.62	No Change	Large increase		INS FTK COL	-0.13	-0.25	4.0
462	Hackberry	31	35	33	128	33	235	38	271	0.94	3.66	0.94	6.71	1.09	7.74	No Change	Large increase	DRO	FTK	1.66	0.3	5.7
552	Honeylocust	2	6	3	12	4	113	7	189	0.50	2.00	0.67	18.83	1.17	31.50	No Change	Large increase		COL	1.91	-0.54	5.5
131	Loblolly pine	0	12	7	11	13	34	12	190	0.58	0.92	1.08	2.83	1.00	15.83	No Change	Large increase	EHS	INS INP DRO COL	-0.51	-0.66	3.4
409	Mockernut hickory	125	190	171	227	217	338	218	390	0.90	1.20	1.14	1.78	1.15	2.05	No Change	Large increase		FTK	1.69	-0.28	5.4
452	Northern catalpa	0	1	0	0	0	0	0	13	0.00	0.00	0.00	0.00	0.00	13.00	NA	Large increase		COL EHS	0.93	-1.58	4.2
833	Northern red oak	912	823	847	750	809	592	775	529	1.03	0.91	0.98	0.72	0.94	0.64	No Change	Small decrease		INS	1.39	0.13	5.4
641	Osage-orange	5	6	5	11	6	24	7	48	0.83	1.83	1.00	4.00	1.17	8.00	No Change	Small increase	EHS ESP		2.32	0.33	6.3
375	Paper birch	11	15	5	1	4	0	3	0	0.33	0.07	0.27	0.00	0.20	0.00	Large decrease	Large decrease	FRG DISP EHS	FTK COL INS DRO	-1.72	0.18	3.4
367	Pawpaw	5	10	4	16	8	27	11	23	0.40	1.60	0.80	2.70	1.10	2.30	No Change	No Change	COL	DRO	-0.48	-0.32	3.7
404	Pecan	0	71	0	4	0	29	0	41	0.00	0.06	0.00	0.41	0.00	0.58	NA	Small decrease		FTK INS COL	-1.24	-1.7	2.2
403	Pignut hickory	136	218	199	255	237	319	252	288	0.91	1.17	1.09	1.46	1.16	1.32	No Change	Small increase	EHS	INS DRO	0.22	0.4	4.7
761	Pin cherry	43	21	21	3	11	0	10	0	1.00	0.14	0.52	0.00	0.48	0.00	Large decrease	Large decrease	SES FRG FTK	COL	0.45	-0.68	4.2
830	Pin oak	18	24	13	28	12	47	22	38	0.54	1.17	0.50	1.96	0.92	1.58	No Change	Small increase		FTK COL INS DISE	-0.65	-1.39	2.8
126	Pitch pine	96	101	96	119	94	113	93	119	0.95	1.18	0.93	1.12	0.92	1.18	No Change	No Change		COL INS	0.56	-1.79	3.8
835	Post oak	0	8	8	245	39	1157	53	1651	1.00	30.63	4.88	144.63	6.63	206.38	Small increase	Large increase	DRO TGR FTK	COL INS DISE	2.17	-0.59	5.7
746	Quaking aspen	54	72	36	12	18	1	15	0	0.50	0.17	0.25	0.01	0.21	0.00	Large decrease	Large decrease	TGR FRG EHS	COL DRO FTK	0.56	0.01	4.7
316	Red maple	2063	2021	1983	1611	1879	905	1905	688	0.98	0.80	0.93	0.45	0.94	0.34	No Change	Large decrease	SES EHS ESP COL DISP		3	3	8.5
682	Red mulberry	6	7	5	40	5	192	8	293	0.71	5.71	0.71	27.43	1.14	41.86	No Change	Large increase	COL DISP	FTK	0.07	0.59	4.7
125	Red pine	40	31	29	24	18	0	18	0	0.94	0.77	0.58	0.00	0.58	0.00	Small decrease	Large decrease		INS COL DISP	0.86	-2.42	3.9
97	Red spruce	9	4	0	0	1	0	1	0	0.00	0.00	0.25	0.00	0.25	0.00	Small decrease	Large decrease	EHS COL	FTK SES	-1.28	-0.62	2.9
373	River birch	7	3	4	6	4	6	5	14	1.33	2.00	1.33	2.00	1.67	4.67	No Change	Small increase	DISP	FTK COL DRO	-0.45	-0.32	3.7
977	Rock elm	0	0	0	3	0	7	2	18	NA	NA	NA	New	NA	New	NA	New habitat		EHS ESP SES	-0.2	-2.61	2.8
931	Sassafras	463	436	466	510	486	478	533	439	1.07	1.17	1.12	1.10	1.22	1.01	Small increase	No Change		COL FTK	0.48	-0.64	4.2
806	Scarlet oak	191	205	209	235	243	296	241	266	1.02	1.15	1.19	1.44	1.18	1.30	No Change	Small increase	VRE EHS ESP	INS DISE FTK	-0.35	0.71	4.6
356	Serviceberry	167	161	155	145	149	119	152	115	0.96	0.90	0.93	0.74	0.94	0.71	No Change	Small decrease	COL SES	DRO	-0.38	0.98	4.8
407	Shagbark hickory	51	66	54	134	60	180	67	182	0.82	2.03	0.91	2.73	1.02	2.76	No Change	Large increase		INS FTK	-0.2	0.37	4.4
405	Shellbark hickory	1	0	0	5	0	11	0	11	0.00	5.00	0.00	11.00	0.00	11.00	NA	Large increase	COL	FTK EHS	-0.48	-0.3	3.7
817	Shingle oak	4	5	1	31	2	61	5	55	0.20	6.20	0.40	12.20	1.00	11.00	No Change	Large increase	EHS	COL	1.31	-0.74	4.9
110	Shortleaf pine	2	4	8	70	14	373	17	677	2.00	17.50	3.50	93.25	4.25	169.25	Small increase	Large increase	EHS	COL INS DRO	0	-0.97	3.6
834	Shumard oak**	0	0	0	1	0	10	0	71	NA	NA	NA	New	NA	New	NA	New habitat	DRO TGR	COL	2.45	-1.02	5.8

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		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	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI	PCM B1	A1FI							
317	Silver maple	41	50	27	140	24	172	32	191	0.54	2.80	0.48	3.44	0.64	3.82	Small decrease	Large increase	DISP SES COL	DRO FTK	0.13	1.63	5.6
975	Slippery elm	98	127	105	146	112	176	117	175	0.83	1.15	0.88	1.39	0.92	1.38	No Change	Small increase	COL	FTK DISE	0.03	0.68	4.8
711	Sourwood	0	12	22	8	40	7	41	18	1.83	0.67	3.33	0.58	3.42	1.50	No Change	No Change	COL EHS		2.59	0.98	6.9
812	Southern red oak	1	2	2	19	5	105	6	281	1.00	9.50	2.50	52.50	3.00	140.50	No Change	Large increase	TGR		1.21	0.21	5.3
315	Striped maple	220	173	186	148	172	102	155	90	1.08	0.86	0.99	0.59	0.90	0.52	No Change	Small decrease	COL SES	DRO	0.96	0.25	5.1
318	Sugar maple	526	680	559	622	536	586	575	419	0.82	0.92	0.79	0.86	0.85	0.62	No Change	Small decrease	COL EHS		0.86	1.34	5.8
461	Sugarberry**	0	1	0	13	2	79	4	223	0.00	13.00	2.00	79.00	4.00	223.00	Small increase	Large increase	COL SES	FTK	-0.17	0.64	4.6
804	Swamp chestnut oak	13	5	4	9	3	5	5	0	0.80	1.80	0.60	1.00	1.00	0.00	No Change	Large decrease			1.04	-0.3	4.9
372	Sweet birch	849	672	736	554	691	332	658	278	1.10	0.82	1.03	0.49	0.98	0.41	No Change	Large decrease	DISP	FTK COL INS DISE	-1.28	-0.32	3.2
611	Sweetgum	1	15	10	61	25	133	45	269	0.67	4.07	1.67	8.87	3.00	17.93	Large increase	Large increase	VRE EHS	FTK COL DRO	-0.41	0.18	4.1
731	Sycamore	39	39	38	75	44	120	56	141	0.97	1.92	1.13	3.08	1.44	3.62	Small increase	Large increase			1.28	-0.9	4.8
123	Table Mountain pine	7	1	1	1	1	2	1	3	1.00	1.00	1.00	2.00	1.00	3.00	No Change	No Change	DRO	COL	2.55	-1.12	5.9
71	Tamarack (native)	16	2	3	1	2	1	2	1	1.50	0.50	1.00	0.50	1.00	0.50	No Change	Small decrease		FTK COL INS	-0.48	-1.24	3.1
132	Virginia pine	119	136	133	121	174	149	150	185	0.98	0.89	1.28	1.10	1.10	1.36	No Change	Small increase		COL POL	0.1	-0.81	3.8
827	Water oak	0	0	0	0	0	6	0	44	NA	NA	NA	New	NA	New	NA	New habitat	TGR	FTK COL	-0.17	-0.59	3.7
541	White ash	873	730	757	658	701	477	709	396	1.04	0.90	0.96	0.65	0.97	0.54	No Change	Small decrease		INS FTK COL	-2.01	-0.54	2.7
802	White oak	516	603	585	774	613	1000	622	934	0.97	1.28	1.02	1.66	1.03	1.55	No Change	Small increase	EHS ESP TGR FTK	INS DISE	1.66	1	6.1
94	White spruce	17	5	2	2	3	3	2	3	0.40	0.40	0.60	0.60	0.40	0.60	Small decrease	No Change		INS	0.07	-0.62	3.9
831	Willow oak	0	1	1	1	1	5	1	10	1.00	1.00	1.00	5.00	1.00	10.00	No Change	Large increase	SES TGR	COL	0.63	-0.01	4.7
971	Winged elm	0	0	3	43	6	338	8	727	New	New	New	New	New	New	New habitat	New habitat		INS DISE	-0.58	-0.3	3.6
371	Yellow birch	81	90	64	40	56	11	58	7	0.71	0.44	0.62	0.12	0.64	0.08	Small decrease	Large decrease	DISP	FTK INS DISE	-1.38	-0.03	3.4
621	Yellow-poplar	253	318	366	323	447	250	480	177	1.15	1.02	1.41	0.79	1.51	0.56	Small increase	Small decrease	SES DISP EHS	INP	0.13	1.26	5.3

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