Supplemental Files for Wright, Juska, and Gorchov 2019. White-tailed deer browse preference for an invasive shrub, Amur honeysuckle (*Lonicera maackii*), depends on woody species composition. Invasive Plant Science and Management 12: 11–21. doi: 10.1017/inp.2018.30

Table A.1. Total number of twigs in the 0.3- 1.7 m height range in quadrats, number of these twigs with evidence of early- to mid-growing season browse by deer, proportion of twigs browsed for each woody species, and proportion of browsed twigs comprised of each woody species (r_i in Equation 2) at each site. All species, excluding *L. maackii*, were classified as more-preferred species (MPS) or less-preferred species (LPS) (Tables A.2, A.3).

Site: Davidson Woods		Total Twigs	Twigs Browsed	Prop. Browsed	Prop. of Browse
	L. maackii	4112	222	0.05	0.71
MPS	*A. saccharum*	112	19	0.17	0.06
	F. quadrangulata	171	18	0.11	0.06
	F. americana	74	10	0.14	0.03
	R. multiflora	13	6	0.46	0.02
	Q. muehlenbergii	13	1	0.08	0.00
	U. americana	12	7	0.58	0.02
LPS	*C. cordiformis*	4	1	0.25	0.00
	P. serotina	253	28	0.11	0.09
	Q. bicolor	1	0	0.00	0.00
	T. radicans	3	0	0.00	0.00
Totals		4768	312		
Site: Hueston Woods		Total Twigs	Twigs Browsed	Prop. Browsed	Prop. of Browse
	L. maackii	470	85	0.18	0.42
MPS	*A. saccharum*	43	14	0.33	0.07
	C. occidentalis	6	3	0.50	0.01
	F. americana	64	17	0.27	0.08
	F. quadrangulata	31	6	0.19	0.03
	Smilax spp.	60	41	0.68	0.20
	U. americana	4	2	0.50	0.01
LPS	*A. triloba*	33	0	0.00	0.00
	C. cordiformis	7	0	0.00	0.00
	F. grandifolia	66	10	0.15	0.05
	L. benzoin	74	0	0.00	0.00
	P. serotina	172	26	0.15	0.13
Totals		1030	204		

Site: Miami Whitewater East		Total Twigs	Twigs Browsed	Prop. Browsed	Prop. of Browse
	L. maackii	675	183	0.27	0.61
MPS	*A. saccharum*	44	13	0.30	0.04
	C. occidentalis	7	3	0.43	0.01
	F. americana	31	7	0.23	0.02
	L. japonica	2	0	0.00	0.00
	R. multiflora	73	42	0.58	0.14
	R. pseudoacacia	23	18	0.78	0.06
	Rubus spp.	27	9	0.33	0.03
	U. americana	12	8	0.67	0.03
LPS	*A. triloba*	48	0	0.00	0.00
	L. benzoin	9	0	0.00	0.00
	P. serotina	146	17	0.12	0.06
Totals		1097	300		

Site: Miami Whitewater West		Total Twigs	Twigs Browsed	Prop. Browsed	Prop.of Browse
	L. maackii	186	123	0.66	0.45
MPS	*A. saccharum*	199	9	0.05	0.03
	C. occidentalis	31	9	0.29	0.03
	F. americana	34	2	0.06	0.01
	R. multiflora	1	0	0.00	0.00
	Rubus spp.	6	0	0.00	0.00
	U. americana	27	16	0.59	0.06
	U. rubra	3	0	0.00	0.00
LPS	*A. negundo*	25	5	0.20	0.02
	A. triloba	98	0	0.00	0.00
	E. umbellata	5	0	0.00	0.00
	F. grandifolia	89	4	0.04	0.01
	L. benzoin	2120	100	0.05	0.36
	P. quinquefolia	5	2	0.40	0.01
	P. serotina	11	6	0.55	0.02
	T. radicans	1	0	0.00	0.00
Totals		2841	276		

Site: Mount Airy		Total Twigs	Twigs Browsed	Prop. Browsed	Proportion of Browse
	L. maackii	1714	120	0.07	0.38
MPS	*A. saccharum*	28	13	0.46	0.04
	C. occidentalis	290	175	0.60	0.55
	E. alatus	4	0	0.00	0.00
	F. americana	17	1	0.06	0.00
	Rubus spp.	3	3	1.00	0.01
	U. americana	7	4	0.57	0.01

LPS	*A. triloba*	64	0	0.00	0.00
	L. benzoin	47	2	0.04	0.01
Totals		2714	318		
Site: Stanbery Park		Total Twigs	Twigs Browsed	Prop. Browsed	Prop. of Browse
	L. maackii	4071	152	0.04	0.53
MPS	*A. saccharum*	126	19	0.15	0.07
	C. occidentalis	35	25	0.71	0.09
	E. alatus	130	36	0.28	0.13
	F. americana	22	7	0.32	0.02
	F. quadrangulata	3	0	0.00	0.00
	L. japonica	26	1100	0.42	0.04
	L. vulgare	72	5	0.07	0.02
	R. multiflora	6	5	0.83	0.02
	U. americana	3	0	0.00	0.00
	V. dentatum	129	21	0.16	0.07
	Vitis spp.	12	6	0.50	0.02
LPS	*A. glabra*	1	0	0.00	0.00
	A. negundo	1	0	0.00	0.00
	A. triloba	22	0	0.00	0.00
	C. cordiformis	1	0	0.00	0.00
	E. fortunei	1	0	0.00	0.00
	L. benzoin	76	0	0.00	0.00
	P. serotina	6	0	0.00	0.00
Totals		4743	287		
Site: Taylorsville Metropark		Total Twigs	Twigs Browsed	Prop. Browsed	Prop. of Browse
	L. maackii	2876	267	0.09	0.76
MPS	*A. flava*	6	3	0.5	0.01
	A. saccharum	12	2	0.17	0.01
	C. occidentalis	48	12	0.25	0.03
	F. americana	117	17	0.15	0.05
	F. quadrangulata	227	22	0.1	0.06
	L. tulipifera	11	2	0.18	0.01
	Rubus spp.	7	1	0.14	0.00
	Smilax spp.	15	11	0.73	0.03
	U. americana	14	7	0.5	0.02
LPS	*A. negundo*	6	5	0.83	0.01
	A. triloba	8	0	0.00	0.00
	T. radicans	5	1	0.2	0.00
Totals		3352	350		
Site: Winton Woods		Total Twigs	Twigs Browsed	Prop. Browsed	Prop. of Browse

	L. maackii	698	140	0.20	0.50
MPS	*A. saccharum*	36	5	0.14	0.02
	C. occidentalis	62	13	0.21	0.04
	E. alatus	120	61	0.51	0.20
	F. americana	5	0	0.00	0.00
	R. pseudoacacia	9	6	0.67	0.02
	Rubus spp.	28	4	0.14	0.01
	Smilax spp.	8	5	0.62	0.02
	U. americana	46	24	0.52	0.08
	U. rubra	62	18	0.29	0.06
LPS	*A. negundo*	2	0	0	0.00
	A. triloba	29	0	0	0.00
	F. grandifolia	18	0	0	0.00
	L. benzoin	19	0	0	0.00
	P. quinquefolia	11	2	0.18	0.01
	P. serotina	378	34	0.09	0.11
	T. radicans	1	0	0	0.00
Total		1532	312		

Table A.2. Electivity (E_i) value of each woody species at each site (see Table 1 for full names of each species). Cells are shaded according to how much higher or lower the electivity value is compared to *L. maackii* electivity at the same site. Species were assigned to two categories based on whether they had higher or lower electivity values compared to *L. maackii* at the majority of the sites. Three taxa, *F. americana, Rubus* spp., and *U. rubra*, had higher electivity than *L.maackii* at some sites and lower at other sites. All were classified as 'more preferred' based on electivity values at sites where they were more abundant (Wright 2017).

More preferred than *L. maackii* by a difference of:	Less preferred than *L. maackii* by a difference of:
>0.2	>0.2
≤0.2	≤0.2
≤0.1	≤0.1

		Davidson Woods	Hueston Woods	Miami Whitewater-East	Miami Whitewater-West	Mt. Airy	Stanbery Park	Taylorsville Metropark	Winton Woods
	L. maackii	**-0.53**	**-0.15**	**-0.06**	**0.57**	**-0.63**	**-0.66**	**-0.52**	**0.00**
More-Preferred Species	*A. saccharum*	-0.02	0.14	-0.02	-0.6	0.19	-0.27	-0.09	-0.18
	A. flava							0.27	
	C. occidentalis		0.34	0.16	0.233	0.32	0.59	-0.08	0.03
	E. alatus					-1	0.2		0.44
	F. americana	-0.13	0.044	-0.15	-0.51	-0.68	0.27	-0.34	-1
	F. quadrangulata	-0.25	-0.12				-1	-0.51	
	L. vulgare						-0.45		
	L. tulipifera							-0.08	
	L. japonica			-1			0.4		
	Q. muhlenbergii	-0.39							
	R. pseudoacacia			0.44					0.54
	R. multiflora			0.3	-1		0.64		
	Rubus spp.			0.04	-1	0.52		-0.35	-0.16
	Smilax spp.		0.47					0.43	0.52
	U. americana	0.53	0.34	0.37	0.53	0.29	-1	0.26	0.45
	U. rubra				-1				0.19
	V. dentatum						-0.06		
	Vitis spp.						0.46		

Less-Preferred Species	*A. negundo*				0.05		-1	0.48	-1
	A. glabra						-1		
	A. triloba	-1	-1	-1	-1	-1			-1
	C. cordiformis	0.17	-1				-1		
	E. fortunei						-1		
	E. umbellata				-1				
	F. grandifolia				-0.6				-1
	L. benzoin		-1	-1	-0.59	-0.76	-1		-1
	P. quinquefolia				0.38				-0.04
	P. serotina	-0.23	-0.23	-0.45	0.5		-1		-0.37
	Q.bicolor	-1							
	T. radicans	-1			-1			-0.19	-1

Table A.3. Proportion of land cover types (excluding open water) within a 1 km^2 buffer of the transects at each study site.

Site	**Forest**	**Perennial Forage**	**Pasture/Row Crop**	**Urban**
Davidson Woods	0.51	0.04	0.33	0.11
Hueston Woods	0.87	0.01	0.02	0.11
Miami Whitewater East	0.79	0.01	0.07	0.13
Miami Whitewater West	0.87	0.01	0.04	0.08
Mt. Airy	0.82	0.02	0.02	0.14
Stanbery Park	0.51	0.00	0.01	0.48
Taylorsville	0.34	0.02	0.49	0.14
Winton Woods	0.29	0.01	0.05	0.66