Algorithm	Species			Estimate	Std.Error	zvalue	Pr(>|z|)	
YOLOv5	*Ambrosia trifida*	4 species	(Intercept)	2.3661	0.2174	10.885	< 0.001	***
			B	-0.5676	0.1327	-4.277	< 0.001	***
			C	-0.6244	0.1318	-4.736	< 0.001	***
			D	-0.4939	0.1339	-3.688	< 0.001	***
		2 species	(Intercept)	2.203	0.1881	11.713	< 0.001	***
			B	-0.1545	0.1345	-1.149	0.25071	
			C	-0.684	0.1255	-5.449	< 0.001	***
			D	-0.4299	0.1293	-3.325	< 0.001	***
	Ipomoea coccinea	4 species	(Intercept)	1.06549	0.14298	7.452	< 0.001	***
			B	0.28016	0.09307	3.01	0.00261	**
			C	-1.00146	0.08461	-11.836	< 0.001	***
			D	-0.91762	0.08469	-10.835	< 0.001	***
		2 species	(Intercept)	1.7284	0.1287	13.43	< 0.001	***
			B	-0.2133	0.1046	-2.038	0.0415	*
			C	-0.2184	0.1046	-2.089	0.0367	*
			D	-0.4955	0.101	-4.907	< 0.001	***
	Ipomoea lacunose	4 species	(Intercept)	1.5105	0.2707	5.579	< 0.001	***
			B	0.1126	0.1087	1.036	0.3	
			C	-0.1735	0.1057	-1.642	0.101	
			D	0.0586	0.108	0.542	0.588	
VGG19	*Ambrosia trifida*	4 species	(Intercept)	1.84749	0.23731	7.785	< 0.001	***
			B	0.16121	0.12075	1.335	0.182	
			C	-0.08915	0.11674	-0.764	0.445	
			D	0.72233	0.13369	5.403	< 0.001	***
		2 species	(Intercept)	3.04924	0.316	9.65	< 0.001	***
			B	-0.09468	0.1633	-0.58	0.562	
			C	-0.30079	0.15787	-1.905	0.0567	.
			D	-0.0683	0.16407	-0.416	0.6772	
	Ipomoea coccinea	4 species	(Intercept)	0.47572	0.10702	4.445	< 0.001	***
			B	0.28557	0.08165	3.498	< 0.001	***
			C	-0.3993	0.07895	-5.058	< 0.001	***
			D	0.29948	0.08175	3.663	< 0.001	***
		2 species	(Intercept)	3.1666	0.2012	15.738	< 0.001	***
			B	0.6044	0.2112	2.861	0.00422	**
			C	0.2614	0.1924	1.359	0.1741	
			D	-0.3058	0.1702	-1.797	0.07227	.
	Ipomoea lacunose	4 species	(Intercept)	1.44926	0.21888	6.621	< 0.001	***
			B	-0.21075	0.1026	-2.054	0.04	*
			C	0.51643	0.11317	4.563	< 0.001	***
			D	0.01108	0.10505	0.105	0.916	

Table S1 Results of GLMM for Evaluation 2.